

2003 Index

IEEE Transactions on Automatic Control

Vol. 48

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2003, and items from previous years that were commented upon or corrected in 2003. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Subject cross-references are included to assist in finding items of interest. Note that the item title is found only under the primary entry in the Author Index.

AUTHOR INDEX

A

- Abou-Kandil, H.**, *see* Jank, G., *T-AC Feb 03* 267-271
- Aghannan, N.**, and P. Rouchon. An intrinsic observer for a class of Lagrangian systems; *T-AC Jun 03* 936-945
- Albertini, F.**, and Z. D'Alessandro. Notions of controllability for bilinear multilevel quantum systems; *T-AC Aug 03* 1399-1403
- Alessandri, A.**, M. Baglietto, and G. Battistelli. Receding-horizon estimation for discrete-time linear systems; *T-AC Mar 03* 473-478
- Altman, E.**, and Z. Altman. S-modular games and power control in wireless networks; *T-AC May 2003* 839-842
- Altman, E.**, *see* El Azouzi, R., *T-AC Sep 03* 1656-1660
- Altman, Z.**, *see* Altman, E., *T-AC May 2003* 839-842
- Amadou Tall, I.**, *see* Wei Kang, *T-AC Oct 03* 1724-1736
- Amishima, T.**, *see* Sznaier, M., *T-AC Mar 03* 355-368
- Angeli, D.**, and E.D. Sontag. Monotone control systems; *T-AC Oct 03* 1684-1698
- Annaswamy, A.M.**, *see* Chengyu Cao, *T-AC Mar 03* 397-412
- Antoulas, A.C.**, *see* Gugercin, S., *T-AC Jun 03* 1109-1115
- Antsaklis, P.J.**, *see* Iordache, M.V., *T-AC Nov 03* 1962-1974
- Antsaklis, P.J.**, *see* Iordache, M.V., *T-AC Nov 03* 2036-2039
- Arapostathis, A.**, R. Kumar, and S. Tangirala. Controlled Markov chains with safety upper bound; *T-AC Jul 03* 1230-1234
- Arapostathis, A.**, *see* Hong-Gi Lee, *T-AC Sep 03* 1646-1650
- Ariola, M.**, and A. Pironti. Reduced-order solutions for the singular H^{∞} filtering problem; *T-AC Feb 03* 271-275
- Arzelier, D.**, *see* Henrion, D., *T-AC Dec 03* 2255-2259
- Astolfi, A.**, and R. Ortega. Immersion and invariance: a new tool for stabilization and adaptive control of nonlinear systems; *T-AC Apr 03* 590-606
- Astolfi, A.**, *see* Prieur, C., *T-AC Oct 03* 1768-1772
- ##### B
- Bacic, M.**, M. Cannon, Y.I. Lee, and B. Kouvaritakis. General interpolation in MPC and its advantages; *T-AC Jun 03* 1092-1096
- Bacic, M.**, M. Cannon, and B. Kouvaritakis. Constrained control of SISO bilinear systems; *T-AC Aug 03* 1443-1447
- Backx, T.A.C.P.M.**, *see* Ludlage, J.H.A., *T-AC Jul 03* 1134-1149
- Baglietto, M.**, *see* Alessandri, A., *T-AC Mar 03* 473-478
- Bai Er-Wei**, *see* Er-Wei Bai, *T-AC Apr 03* 530-542
- Baillieul, J.**, A. Bloch, and W. Lin. Guest editorial: Special section on new directions on nonlinear control [special section intro.]; *T-AC Oct 03* 1681-1682
- Bakule, L.**, J. Rodellar, and J.M. Rossell. Contractibility of dynamic LTI controllers using complementary matrices; *T-AC Jul 03* 1269-1274
- Balakrishnan, V.**, and L. Vandenberghe. Semidefinite programming duality and linear time-invariant systems; *T-AC Jan 03* 30-41
- Balas, G.**, J. Bokor, and Z. Szabo. Invariant subspaces for LPV systems and their applications; *T-AC Nov 03* 2065-2069
- Balas, G.**, J. Bokor, and Z. Szabo. Invariant subspaces for LPV systems and their applications; *T-AC Nov 03* 2065-2068
- Bamieh, B.** Intersample and finite wordlength effects in sampled-data problems; *T-AC Apr 03* 639-643
- Bamieh, B.**, and M. Dahleh. Exact computation of traces and H^2 norms for a class of infinite-dimensional problems; *T-AC Apr 03* 646-649
- Barabanov, N.E.** Stability of systems with several monotone nonlinearities; *T-AC Apr 03* 665-670
- Barabanov, N.E.**, and D.V. Prokhorov. A new method for stability analysis of nonlinear discrete-time systems; *T-AC Nov 03* 1908-1925
- Bartolini, G.**, A. Pisano, and P. Pisu. Simplified exponentially convergent rotor resistance estimation for induction motors; *T-AC Feb 03* 325-330
- Basar, T.**, *see* Melody, J., *T-AC Jan 03* 139-143
- Batra, P.** On necessary conditions for real robust Schur-stability; *T-AC Feb 03* 259-261
- Battilotti, S.**, and A. De Santis. Stabilization in probability of nonlinear stochastic systems with guaranteed region of attraction and target set; *T-AC Sep 03* 1585-1599
- Battistelli, G.**, *see* Alessandri, A., *T-AC Mar 03* 473-478
- Bazanella, A.S.**, *see* Reginatto, R., *T-AC Jul 03* 1218-1222
- Beck, C.**, *see* Lall, S., *T-AC Jun 03* 946-956
- Bemporad, A.**, F. Borrelli, and M. Morari. Min-max control of constrained uncertain discrete-time linear systems; *T-AC Sep 03* 1600-1606
- Benveniste, A.**, E. Fabre, S. Haar, and C. Jard. Diagnosis of asynchronous discrete-event systems: a net unfolding approach; *T-AC May 2003* 714-727
- Benveniste, A.**, E. Fabre, and S. Haar. Markov nets: Probabilistic models for distributed and concurrent systems; *T-AC Nov 03* 1936-1950
- Benveniste, A.**, E. Fabre, and S. Haar. Markov nets: probabilistic models for distributed and concurrent systems; *T-AC Nov 03* 1936-1950
- Berg, J.M.**, *see* Maithripala, D.H.S., *T-AC Mar 03* 483-486
- Bernstein, D.S.**, *see* Lacy, S.L., *T-AC Jul 03* 1259-1263
- Bhattacharyya, S.P.**, *see* Darbha, S., *T-AC May 2003* 797-800
- Bhattacharyya, S.P.**, *see* Tantaros, R.N., *T-AC May 2003* 858-860
- Bhattacharyya, S.P.**, *see* Keel, L.H., *T-AC Apr 03* 687-692
- Bhattacharyya, S.P.**, *see* Silva, G.J., *T-AC Sep 03* 1638-1641
- Bhattacharyya, S.P.**, *see* Kim, Y.C., *T-AC Dec 03* 2238-2244
- Bhulai, S.**, and G. Koole. A queueing model for call blending in call centers; *T-AC Aug 03* 1434-1438
- Bing Zeng**, *see* Xi-Ren Cao, *T-AC Sep 03* 1676-1678
- Biqing Wu**, and M. Bodson. A magnitude/phase-locked loop approach to parameter estimation of periodic signals; *T-AC Apr 03* 612-618
- Bittanti, S.**, *see* Savaresi, S.M., *T-AC Jul 03* 1285-1292
- Blanchini, F.**, S. Miani, and F.A. Pellegrino. Suboptimal receding horizon control for continuous-time systems; *T-AC Jun 03* 1081-1086
- Blanchini, F.**, and F.A. Pellegrino. Relatively optimal control and its linear implementation; *T-AC Dec 03* 2151-2162
- Bloch, A.**, *see* Baillieul, J., *T-AC Oct 03* 1681-1682
- Blomqvist, A.**, A. Lindquist, and R. Nagamune. Matrix-valued Nevanlinna-Pick interpolation with complexity constraint: An optimization approach; *T-AC Dec 03* 2172-2190
- Bodson, M.**, *see* Biqing Wu, *T-AC Apr 03* 612-618
- Bokor, J.**, *see* Balas, G., *T-AC Nov 03* 2065-2068
- Bokor, J.**, *see* Balas, G., *T-AC Nov 03* 2065-2069
- Borkar, V.S.**, and P.R. Kumar. Dynamic Cesaro-Wardrop equilibration in networks; *T-AC Mar 03* 382-396
- Borrelli, F.**, *see* Bemporad, A., *T-AC Sep 03* 1600-1606
- Bounit, H.**, and H. Hammouri. A separation principle for distributed dissipative bilinear systems; *T-AC Mar 03* 479-483
- Bourles, H.**, *see* Marinescu, B., *T-AC Jan 03* 166-169
- Boutayeb, M.**, and M. Darouach. Comments on "A robust state observer scheme"; *T-AC Jul 03* 1292-1293
- Boyd, S.**, *see* Lin Xiao, *T-AC Jan 03* 148-153
- Braslavsky, J.H.**, *see* Lau, K., *T-AC Aug 03* 1389-1393

- Brockett, R.W.**, *see* Egerstedt, M.B., *T-AC Feb 03* 213-223
- Brockett, R.W.** Pattern generation and the control of nonlinear systems; *T-AC Oct 03* 1699-1711
- Brogliato, B.** Some perspectives on the analysis and control of complementarity systems; *T-AC Jun 03* 918-935
- Bugong Xu**, and Yun-Hui Liu. Delay-dependent/delay-independent stability of linear systems with multiple time-varying delays; *T-AC Apr 03* 697-701
- Bullo, F.**, *see* Melody, J., *T-AC Jan 03* 139-143
- Bullo, F.**, *see* Cerven, W.T., *T-AC Apr 03* 575-589
- Bullo, F.**, *see* Martinez, S., *T-AC Jul 03* 1164-1177
- Bultheel, A.**, *see* Van gucht, P., *T-AC Apr 03* 705-709
- Byrnes, C.I.**, and A. Isidori. Limit sets, zero dynamics, and internal models in the problem of nonlinear output regulation; *T-AC Oct 03* 1712-1723
- C**
- Cai Wen-Jian**, *see* Ya-Gang Wang, *T-AC May 2003* 873-878
- Calafiore, G.** Set simulations for quadratic systems; *T-AC May 2003* 800-805
- Calise, A.J.**, *see* Lavretsky, E., *T-AC Sep 03* 1606-1610
- Campos-Delgado, D.U.**, and K. Zhou. Reconfigurable fault-tolerant control using GIMC structure; *T-AC May 2003* 832-839
- Cannon, M.**, *see* Bacic, M., *T-AC Jun 03* 1092-1096
- Cannon, M.**, *see* Bacic, M., *T-AC Aug 03* 1443-1447
- Canudas de Wit, C.**, *see* Westervelt, E.R., *T-AC Feb 03* 308-312
- Cao, X-R.**, and B. Zeng. Structure and Interpretation of Signals and Systems (Lee, E.A and Varaiya, P.; 2003) [book review]; *T-AC Aug 03* 1472-1474
- Cao Chengyu**, *see* Chengyu Cao, *T-AC Mar 03* 397-412
- Cao Xi-Ren**, *see* Xi-Ren Cao, *T-AC May 2003* 758-769
- Cao Xi-Ren**, *see* Xi-Ren Cao, *T-AC Sep 03* 1676-1678
- Carvalho, J.**, K. Datta, and Y. Hong. A new block algorithm for full-rank solution of the sylvester-observer equation; *T-AC Dec 03* 2223-2228
- Casini, M.**, A. Garulli, and A. Vicino. On worst-case approximation of feasible system sets via orthonormal basis functions; *T-AC Jan 03* 96-101
- Cassandras, C.G.**, Gang Sun, C.G. Panayiotou, and Y. Wardi. Perturbation analysis and control of two-class stochastic fluid models for communication networks; *T-AC May 2003* 770-782
- Castelan, E.B.**, J.-C. Hennes, and E.R. Llanos Villarreal. Quadratic characterization and use of output stabilizable subspaces; *T-AC Apr 03* 654-660
- Cavallo, A.**, and C. Natale. Output feedback control based on a high-order sliding manifold approach; *T-AC Mar 03* 469-472
- Cerone, V.**, and D. Regruto. Parameter bounds for discrete-time Hammerstein models with bounded output errors; *T-AC Oct 03* 1855-1860
- Cerven, W.T.**, and F. Bullo. Constructive controllability algorithms for motion planning and optimization; *T-AC Apr 03* 575-589
- Chandra, R.S.**, *see* Krishnamurthy, P., *T-AC Dec 03* 2277-2284
- Chang, H.S.**, and S.I. Marcus. Two-person zero-sum Markov games: Receding horizon approach; *T-AC Nov 03* 1951-1961
- Chang, M.**, and E.J. Davison. Control of LTI systems subject to unanticipated extreme perturbations using self-tuning 3-term switching controllers; *T-AC Nov 03* 1975-1985
- Chang, M.H.**, and E.J. Davison. Control of LTI systems subject to unanticipated extreme perturbations using self-tuning 3-term switching controllers; *T-AC Nov 03* 1975-1985
- Changchun Hua**, *see* Xiping Guan, *T-AC May 2003* 907
- Changhong Wang**, *see* Huijun Gao, *T-AC Mar 03* 520-525
- Changhong Wang**, *see* Huijun Gao, *T-AC Sep 03* 1661-1666
- Changhong Wang**, *see* Huijun Gao, *T-AC Nov 03* 2073-2074
- Chang Hyeong Soo**, *see* Hyeong Soo Chang, *T-AC Jun 03* 976-987
- Chang Hyeong Soo**, *see* Hyeong Soo Chang, *T-AC Nov 03* 1951-1961
- Chao Wang**, *see* Qiang Zhang, *T-AC May 2003* 794-797
- Chao Zhijun**, *see* Zhijun Chao, *T-AC Mar 03* 465-468
- Charalambous, C.D.** Stochastic nonlinear minimax dynamic games with noisy measurements; *T-AC Feb 03* 261-266
- Chen, B.M.**, T.H. Lee, Kemao Peng, and V. Venkataramanan. Composite nonlinear feedback control for linear systems with input saturation: theory and an application; *T-AC Mar 03* 427-439
- Chen, J.**, and R.H. Middleton. Guest editorial: New developments and applications in performance limitation of feedback control [special section intro.]; *T-AC Aug 03* 1297
- Chen, J.**, *see* Dixon, W.E., *T-AC Sep 03* 1671-1672
- Chen, S.**, X. Hong, and C.J. Harris. Sparse kernel regression modeling using combined locally regularized orthogonal least squares and Doptimality experimental design; *T-AC Jun 03* 1029-1036
- Chen, W.-H.**, J.-X. Xu, and Z.-H. Guan. Guaranteed cost control for uncertain Markovian jump systems with mode-dependent time-delays; *T-AC Dec 03* 2270-2277
- Chen, Y.-C.**, *see* Su, T.-J., *T-AC Apr 03* 709
- Chen Gang**, *see* Jie Chen, *T-AC Aug 03* 1320-1336
- Cheng Chih-Chiang**, *see* Chien-Hsin Chou, *T-AC Jul 03* 1213-1217
- Cheng Daizhan**, *see* Daizhan Cheng, *T-AC May 2003* 885-890
- Cheng Daizhan**, *see* Daizhan Cheng, *T-AC Jul 03* 1242-1248
- Cheng Daizhan**, *see* Yuzhen Wang, *T-AC Aug 03* 1428-1433
- Cheng Daizhan**, *see* Zairong Xi, *T-AC Oct 03* 1793-1798
- Chen Guanrong**, *see* Xinghuo Yu, *T-AC Sep 03* 1641-1646
- Chengyu Cao**, A.M. Annaswamy, and A. Kojic. Parameter convergence in nonlinearly parameterized systems; *T-AC Mar 03* 397-412
- Chen Han-Fu**, *see* Han-Fu Chen, *T-AC Sep 03* 1545-1556
- Chen Jie**, *see* Jie Chen, *T-AC Aug 03* 1320-1336
- Chen Jie**, *see* Weizhou Su, *T-AC Aug 03* 1371-1380
- Chen Luonan**, *see* Rong Yuan, *T-AC Feb 03* 344-348
- Chen Min-Shin**, *see* Min-Shin Chen, *T-AC Jan 03* 106-110
- Chen Min-Shin**, *see* Yean-Ren Hwang, *T-AC Apr 03* 701-705
- Chen Sheng**, *see* Jun Wu, *T-AC May 2003* 816-822
- Chen Tongwen**, *see* Shengyuan Xu, *T-AC May 2003* 900-907
- Cherid, A.**, *see* Fiagbedzi, Y.A., *T-AC Nov 03* 1986-1989
- Cherid, A.**, *see* Fiagbedzi, Y.A., *T-AC Nov 03* 1986-1990
- Chesi, G.**, A. Garulli, A. Tesi, and A. Vicino. Solving quadratic distance problems: an LMI-based approach; *T-AC Feb 03* 200-212
- Chia-Yi Lin**, *see* Ming-Tzu Ho, *T-AC Aug 03* 1404-1409
- Chien-Hsin Chou**, and Chih-Chiang Cheng. A decentralized model reference adaptive variable structure controller for large-scale time-varying delay systems; *T-AC Jul 03* 1213-1217
- Chien-Hua Lee** Solution bounds of the continuous Riccati matrix equation; *T-AC Aug 03* 1409-1413
- Chien-Shu Hsieh** General two-stage extended Kalman filters; *T-AC Feb 03* 289-293
- Chien-Yu Lu**, Jason Sheng-Hong Tsai, Gwo-Jia Jong, and Te-Jen Su. An LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays; *T-AC Feb 03* 286-289
- Chih-Chiang Cheng**, *see* Chien-Hsin Chou, *T-AC Jul 03* 1213-1217
- Chitour, Y.**, and Z. Lin. Finite Gain l_p stabilization of discrete-time linear systems subject to actuator saturation: The case of $p = 1$; *T-AC Dec 03* 2196-2198
- Choi Han Ho**, *see* Han Ho Choi, *T-AC Sep 03* 1634-1638
- Choi Youngjin**, *see* Youngjin Choi, *T-AC Feb 03* 315-320
- Chou Chien-Hsin**, *see* Chien-Hsin Chou, *T-AC Jul 03* 1213-1217
- Chu, D.**, X. Liu, and R.C.E. Tan. Correction to "On the numerical computation in systems and control" [Nov 02 1786-1799]; *T-AC Jan 03* 174-176
- Chuang Lin**, Mingwei Xu, D.C. Marinescu, Fengyuan Ren, and Zhiguang Shan. A sufficient condition for instability of buffer priority policies in entrant lines; *T-AC Jul 03* 1235-1238
- Chuanzhi Zang**, *see* Guangwei Li, *T-AC May 2003* 908
- Chu Jian**, *see* Jun Wu, *T-AC May 2003* 816-822
- Chu Jian**, *see* Wei-Jie Mao, *T-AC Jun 03* 1007-1012
- Chung Wan Kyun**, *see* Youngjin Choi, *T-AC Feb 03* 315-320
- Chunjiang Qian**, and Wei Lin. Nonsmooth output feedback stabilization of a class of genuinely nonlinear systems in the plane; *T-AC Oct 03* 1824-1829
- Chunwen Li**, *see* Yuzhen Wang, *T-AC Aug 03* 1428-1433
- Chutinan, A.**, and B.H. Krogh. Computational techniques for hybrid system verification; *T-AC Jan 03* 64-75
- Cishen Zhang**, *see* Schmid, R., *T-AC Aug 03* 1385-1388
- Cloutier, J.R.**, *see* Shamma, J.S., *T-AC Mar 03* 513-517
- Cortes, J.**, *see* Martinez, S., *T-AC Jul 03* 1164-1177
- Costa, O.L.V.**, and E.F. Tuesta. Finite horizon quadratic optimal control and a separation principle for Markovian jump linear systems; *T-AC Oct 03* 1836-1842
- Costa, R.R.**, *see* Cunha, J.P.V.S., *T-AC Dec 03* 2245-2250
- Cottenceau, B.**, *see* Maia, C.A., *T-AC Dec 03* 2284-2287
- Cunha, J.P.V.S.**, L. Hsu, R.R. Costa, and F. Lizarralde. Output-feedback model-reference sliding mode control of uncertain multivariable systems; *T-AC Dec 03* 2245-2250

D

- Dahleh, M.**, *see* Bamieh, B., *T-AC Apr 03* 646-649
- Dahleh, M.A.**, *see* Goncalves, J.M., *T-AC Dec 03* 2089-2106

Dai Huaping, *see* Huaping Dai, *T-AC Jul 03* 1227-1230
Daizhan Cheng, Lei Guo, and Jie Huang. On quadratic Lyapunov functions; *T-AC May 2003* 885-890
Daizhan Cheng, and Wei Lin. On p-normal forms of nonlinear systems; *T-AC Jul 03* 1242-1248
Daizhan Cheng, *see* Yuzhen Wang, *T-AC Aug 03* 1428-1433
Daizhan Cheng, *see* Zairong Xi, *T-AC Oct 03* 1793-1798
D'Alessandro, D., *see* Albertini, F., *T-AC Aug 03* 1399-1403
D'Andrea, R., and G.E. Dullerud. Distributed control design for spatially interconnected systems; *T-AC Sep 03* 1478-1495
Darbha, S., and S.P. Bhattacharyya. On the synthesis of controllers for a non-overshooting step response; *T-AC May 2003* 797-800
Darkhovski, B., and M. Staroswiecki. A game-theoretic approach to decision in FDI; *T-AC May 2003* 853-858
Darouach, M., *see* Boutayeb, M., *T-AC Jul 03* 1292-1293
Das, S.K., and P.K. Kar. Simultaneous pole placement of M discretetime plants using a M-periodic controller; *T-AC Nov 03* 2045-2050
Datta, A., *see* Silva, G.J., *T-AC Sep 03* 1638-1641
Datta, K., *see* Carvalho, J., *T-AC Dec 03* 2223-2228
Davison, E.J., *see* Jemaa, L.B., *T-AC Aug 03* 1299-1311
Davison, E.J., *see* Chang, M., *T-AC Nov 03* 1975-1985
Davison, E.J., *see* Chang, M.H., *T-AC Nov 03* 1975-1985
Da-Wei Gu, and Fu Wah Poon. Authors' reply [Comment on "A robust state observer scheme"]; *T-AC Jul 03* 1293-1294
Dawson, D.M., *see* Dixon, W.E., *T-AC Dec 03* 2232-2238
Dayawansa, W.P., *see* Maithripala, D.H.S., *T-AC Mar 03* 483-486
Deb, S., and R. Srikant. Global stability of congestion controllers for the Internet; *T-AC Jun 03* 1055-1060
De Moor, B., *see* Goethals, I., *T-AC Oct 03* 1843-1847
De Santis, A., *see* Battilotti, S., *T-AC Sep 03* 1585-1599
Dianhui Wang, *see* Runyi Yu, *T-AC Oct 03* 1804-1809
Ding Zhengtao, *see* Zhengtao Ding, *T-AC Jul 03* 1222-1226
Ding Zhengtao, *see* Zhengtao Ding, *T-AC Oct 03* 1788-1792
Dixon, W.E., and J. Chen. Comments on "A composite energy function-based learning control approach for nonlinear systems with time-varying parametric uncertainties"; *T-AC Sep 03* 1671-1672
Dixon, W.E., Y. Fang, D.M. Dawson, and T.J. Flynn. Range identification for perspective vision systems; *T-AC Dec 03* 2232-2238
Djouadi, S.M. Comments on "Is the Frobenius Matrix Norm Induced?" and reply; *T-AC Mar 03* 518-519
Do, K.D., Z.P. Jiang, and J. Pan. On global tracking control of a helicopter without velocity measurements; *T-AC Dec 03* 2212-2217
Dogruel, M. Input linearization of nonlinear systems via pulse-width control; *T-AC Apr 03* 635-638
Dolgin, Y., and E. Zeheb. On Routh-Pade model reduction of interval systems; *T-AC Sep 03* 1610-1612
Du, D., *see* Yang, L., *T-AC Apr 03* 660-664
Duan Guangren, *see* Xinping Guan, *T-AC May 2003* 907
Dullerud, G.E., *see* D'Andrea, R., *T-AC Sep 03* 1478-1495

E

Egerstedt, M.B., and R.W. Brockett. Feedback can reduce the specification complexity of motor programs; *T-AC Feb 03* 213-223
El Azouzi, R., and E. Altman. Constrained traffic equilibrium in routing; *T-AC Sep 03* 1656-1660
Engel, R., *see* Kreisselmeier, G., *T-AC Mar 03* 451-464
Engelbrecht, S.E., *see* Katsikopoulos, K.V., *T-AC Apr 03* 568-574
Engwerda, J.C. Solving the scalar feedback Nash algebraic Riccati equations: an eigenvector approach; *T-AC May 2003* 847-852
Er-Wei Bai Frequency domain identification of Hammerstein models; *T-AC Apr 03* 530-542
Eun Yongsoon, *see* Yongsoon Eun, *T-AC Sep 03* 1666-1671

F

Fabre, E., *see* Benveniste, A., *T-AC May 2003* 714-727
Fabre, E., *see* Benveniste, A., *T-AC Nov 03* 1936-1950
Fagnani, F., and S. Zampieri. Stability analysis and synthesis for scalar linear systems with a quantized feedback; *T-AC Sep 03* 1569-1584
Fang, Y., *see* Dixon, W.E., *T-AC Dec 03* 2232-2238
Fang Jian'an, *see* Jian'an Fang, *T-AC Apr 03* 649-654
Fan Hong, *see* Ge, S.S., *T-AC Nov 03* 2004-2010
Fard, P.J., *see* Hyeong Soo Chang, *T-AC Jun 03* 976-987
Fei-Yue Wang, *see* Zhi-Wei Gao, *T-AC Feb 03* 299-303

Feng Gang, *see* Zairong Xi, *T-AC Oct 03* 1793-1798
Feng Lin, *see* Rudie, K., *T-AC Jun 03* 957-975
Fengyuan Ren, *see* Chuang Lin, *T-AC Jul 03* 1235-1238
Fiagbedzi, Y.A., and A. Cherid. Finite-dimensional observers for delay systems; *T-AC Nov 03* 1986-1990
Fiagbedzi, Y.A., and A. Cherid. Finite-dimensional observers for delay systems; *T-AC Nov 03* 1986-1989
Fidan, B., *see* Youping Zhang, *T-AC Nov 03* 1908-1925
Fidan, B., *see* Zhang, Y., *T-AC Nov 03* 1908-1925
Flynn, T.J., *see* Dixon, W.E., *T-AC Dec 03* 2232-2238
Fong, K.F., *see* Loh, A.P., *T-AC Jun 03* 1069-1072
Fontes, F.A.C.C., and L. Magni. Special section technical notes and correspondence. Min-max model predictive control of nonlinear systems using discontinuous feedbacks; *T-AC Oct 03* 1750-1755
Freudenberg, J.S., C.V. Hollot, R.H. Middleton, and V. Tsochinda. Fundamental design limitations of the general control configuration; *T-AC Aug 03* 1355-1370
Fridman, E., U. Shaked, and L. Xie. Robust H_2 filtering of linear systems with time-varying delay; *T-AC Jan 03* 159-165
Fridman, E., and U. Shaked. Parameter dependent stability and stabilization of uncertain time-delay systems; *T-AC May 2003* 861-866
Fu, M.C., *see* Ying He, *T-AC Aug 03* 1459-1463
Fujimoto, K., and T. Sugie. Iterative learning control of Hamiltonian systems: I/O based optimal control approach; *T-AC Oct 03* 1756-1761
Fu Wah Poon, *see* Da-Wei Gu, *T-AC Jul 03* 1293-1294
Fu Yuli, *see* Yuli Fu, *T-AC Jan 03* 133-138
Fu Yusun, *see* Yusun Fu, *T-AC Feb 03* 282-286

G

Gallegos, C.J., *see* Poznyak, A.S., *T-AC Dec 03* 2141-2150
Gang Chen, *see* Jie Chen, *T-AC Aug 03* 1320-1336
Gang Feng, *see* Zairong Xi, *T-AC Oct 03* 1793-1798
Gang Sun, *see* Cassandras, C.G., *T-AC May 2003* 770-782
Gao, H., C. Wang, and L. Zhao. Comments on "an LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays"; *T-AC Nov 03* 2073-2074
Gao, W., and Y. Zhou. Eigenvalue-based algorithms for testing positive realness of SISO systems; *T-AC Nov 03* 2051-2054
Gao Huijun, *see* Huijun Gao, *T-AC Mar 03* 520-525
Gao Huijun, *see* Huijun Gao, *T-AC Sep 03* 1661-1666
Gao Huijun, *see* Huijun Gao, *T-AC Nov 03* 2073-2074
Gao Weiguo, *see* Weiguo Gao, *T-AC Nov 03* 2051-2055
Gao Zhi-Wei, *see* Zhi-Wei Gao, *T-AC Feb 03* 299-303
Garcia, G., *see* Gomes da Silva, J.M., Jr., *T-AC May 2003* 842-847
Garcia, H.E., *see* Shengbing Jiang, *T-AC Mar 03* 369-381
Garulli, A., *see* Casini, M., *T-AC Jan 03* 96-101
Garulli, A., *see* Chesi, G., *T-AC Feb 03* 200-212
Gazi, V., and K.M. Passino. Stability analysis of swarms; *T-AC Apr 03* 692-697
Ge, S.S., and J. Wang. Robust adaptive tracking for time-varying uncertain nonlinear systems with unknown control coefficients; *T-AC Aug 03* 1463-1469
Ge, S.S., *see* Zhendong Sun, *T-AC Oct 03* 1772-1776
Ge, S.S., F. Hong, and T.H. Lee. Adaptive neural network control of nonlinear systems with unknown time delays; *T-AC Nov 03* 1-NEED
Ge, S.S., Fan Hong, and Tong Heng Lee. Adaptive neural network control of nonlinear systems with unknown time delays; *T-AC Nov 03* 2004-2010
Ge Ming, *see* Ya-Gang Wang, *T-AC May 2003* 873-878
Geng Xiaojun, *see* Murphy, T.E., *T-AC Jun 03* 1073-1081
Ge You, *see* Yuzhen Wang, *T-AC Aug 03* 1428-1433
Ghaffari, A., N. Rezg, and Xiaolan Xie. Feedback control logic for forbidden-state problems of marked graphs: application to a real manufacturing system; *T-AC Jan 03* 18-29
Ghosh, B.K., *see* Rehbinder, H., *T-AC Feb 03* 186-199
Ghosh, J., and B. Paden. Author's reply [to comments on "Nonlinear repetitive control"]; *T-AC Aug 03* 1471
Ghosh, J., and B. Paden. Corrections to "Robust H_2 control for linear discrete-time systems with norm-bounded nonlinear uncertainties" [Jan 99 108-111]; *T-AC Aug 03* 1471-1472
Glattfelder, A.H. Actuator Saturation Control (Kapila, V. and Grigoriadis, K.M.; 2002) [book review]; *T-AC Apr 03* 710-712
Glizer, V.Y. Controllability of nonstandard singularly perturbed systems with small state delay; *T-AC Jul 03* 1280-1285
Glumineau, A., *see* Souleiman, I., *T-AC Dec 03* 2191-2196

- Goethals, I.**, T. Van Gestel, J. Suykens, P. Van Dooren, and B. De Moor. Identification of positive real models in subspace identification by using regularization; *T-AC Oct 03* 1843-1847
- Gohari, P.**, and W.M. Wonham. Reduced supervisors for timed discrete-event systems; *T-AC Jul 03* 1187-1198
- Goldsmith, A.**, *see* Lin Xiao, *T-AC Jan 03* 148-153
- Gomes da Silva, J.M., Jr.**, S. Tarbouriech, and G. Garcia. Local stabilization of linear systems under amplitude and rate saturating actuators; *T-AC May 2003* 842-847
- Goncalves, J.M.**, A. Megretski, and M.A. Dahleh. Global analysis of piecewise linear systems using impact maps and surface Lyapunov functions; *T-AC Dec 03* 2089-2106
- Gong, W.**, *see* Liu, Y., *T-AC Dec 03* 2079-2088
- Gong Qi**, *see* Wei Lin, *T-AC Mar 03* 497-499
- Gong Qi**, *see* Qi Gong, *T-AC Jun 03* 1049-1054
- Goodwin, G.C.**, M.E. Salgado, and J.I. Yuz. Performance limitations for linear feedback systems in the presence of plant uncertainty; *T-AC Aug 03* 1312-1319
- Goodwin, G.C.**, *see* Perez, T., *T-AC Aug 03* 1381-1385
- Gorinevsky, D.**, and G. Stein. Structured uncertainty analysis of robust stability for multidimensional array systems; *T-AC Sep 03* 1557-1568
- Grancharova, A.**, *see* Johansen, T.A., *T-AC May 2003* 810-815
- Grimm, G.**, J. Hatfield, I. Postlethwaite, A.R. Teel, M.C. Turner, and L. Zaccarian. Antiwindup for stable linear systems with input saturation: an LMI-based synthesis; *T-AC Sep 03* 1509-1525
- Grizzle, J.W.**, *see* Westervelt, E.R., *T-AC Jan 03* 42-56
- Grizzle, J.W.**, *see* Westervelt, E.R., *T-AC Feb 03* 308-312
- Gu, C.** A practical two-dimensional Thiele-Type matrix Pade approximation; *T-AC Dec 03* 2259-2263
- Guan, Z.-H.**, *see* Chen, W.-H., *T-AC Dec 03* 2270-2277
- Guangren Duan**, *see* Xiping Guan, *T-AC May 2003* 907
- Guangwei Li**, Chuanzhi Zang, and Xiaoping Liu. Comments on "Robust stabilization of a class of time-delay nonlinear systems"; *T-AC May 2003* 908
- Guanrong Chen**, *see* Xinghuo Yu, *T-AC Sep 03* 1641-1646
- Guan Xiping**, *see* Xiping Guan, *T-AC May 2003* 907
- Gu Da-Wei**, *see* Da-Wei Gu, *T-AC Jul 03* 1293-1294
- Gugercin, S.** A.C. Antoulas, and H.P. Zhang. An approach to identification for robust control; *T-AC Jun 03* 1109-1115
- Gu Guoxiang**, *see* Jian'an Fang, *T-AC Apr 03* 649-654
- Gu Keqin**, *see* Han, Q.L., *T-AC Sep 03* 1629-1633
- Guo, X.**, and O. Hernandez-Lerma. Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion; *T-AC Feb 03* 236-245
- Guo Lei**, *see* Daizhan Cheng, *T-AC May 2003* 885-890
- Guoxiang Gu**, *see* Jian'an Fang, *T-AC Apr 03* 649-654
- Gutman, P.O.**, *see* Mirkin, B.M., *T-AC Sep 03* 1613-1619
- Gwo-Jia Jong**, *see* Chien-Yu Lu, *T-AC Feb 03* 286-289
- ## H
- Haar, S.**, *see* Benveniste, A., *T-AC May 2003* 714-727
- Haar, S.**, *see* Benveniste, A., *T-AC Nov 03* 1936-1950
- Hadjicostis, C.N.** Nonconcurrent error detection and correction in fault-tolerant linear finite-state machines; *T-AC Dec 03* 2133-2140
- Hammer, J.**, *see* Murphy, T.E., *T-AC Jun 03* 1073-1081
- Hammouri, H.**, *see* Bounit, H., *T-AC Mar 03* 479-483
- Han, Q.L.**, Keqin Gu, and Xinghuo Yu. An improved estimate of the robust stability bound of time-delay systems with norm-bounded uncertainty; *T-AC Sep 03* 1629-1633
- Han-Fu Chen**, and G. Yin. Asymptotic properties of sign algorithms for adaptive filtering; *T-AC Sep 03* 1545-1556
- Han Ho Choi** An LMI-based switching surface design method for a class of mismatched uncertain systems; *T-AC Sep 03* 1634-1638
- Haojian Xu**, and P.A. Ioannou. Robust adaptive control for a class of MIMO nonlinear systems with guaranteed error bounds; *T-AC May 2003* 728-742
- Hara, S.**, *see* Jie Chen, *T-AC Aug 03* 1320-1336
- Hara, S.**, *see* Iwasaki, T., *T-AC Aug 03* 1337-1354
- Hardouin, L.**, *see* Maia, C.A., *T-AC Dec 03* 2284-2287
- Harris, C.J.**, *see* Chen, S., *T-AC Jun 03* 1029-1036
- Hatfield, J.**, *see* Grimm, G., *T-AC Sep 03* 1509-1525
- Havre, K.**, and S. Skogestad. Selection of variables for stabilizing control using pole vectors; *T-AC Aug 03* 1393-1398
- Heng Lee Tong**, *see* Sunan Huang, *T-AC May 2003* 805-810
- Heng Lee Tong**, *see* Ge, S.S., *T-AC Nov 03* 2004-2010
- Heng-Qing Ye** Stability of data networks under an optimization-based bandwidth allocation; *T-AC Jul 03* 1238-1242
- Hennet, J.-C.**, *see* Castelan, E.B., *T-AC Apr 03* 654-660
- Henrion, D.**, M. Sebek, and V. Kucera. Positive polynomials and robust stabilization with fixed-order controllers; *T-AC Jul 03* 1178-1186
- Henrion, D.**, D. Peaucelle, D. Arzelier, and M. Sebek. Ellipsoidal approximation of the stability domain of a polynomial; *T-AC Dec 03* 2255-2259
- Herbon, A.**, E. Khmelnitsky, O. Maimon, and Y. Yakubov. Reduction of future information required for optimal control of dynamic systems: a pseudostochastic model; *T-AC Jun 03* 1025-1029
- Hernandez-Lerma, O.**, *see* Guo, X., *T-AC Feb 03* 236-245
- Hespanha, J.P.** Root-mean-square gains of switched linear systems; *T-AC Nov 03* 2040-2045
- Hespanha, J.P.** Root-mean-square gains of switched linear systems; *T-AC Nov 03* 2040-2044
- He Ying**, *see* Ying He, *T-AC Aug 03* 1459-1463
- Hindi, H.**, *see* Lin Xiao, *T-AC Jan 03* 148-153
- Ho, D.W.C.**, *see* Zidong Wang, *T-AC Jul 03* 1254-1258
- Ho Choi Han**, *see* Han Ho Choi, *T-AC Sep 03* 1634-1638
- Hollot, C.V.**, *see* Freudenberg, J.S., *T-AC Aug 03* 1355-1370
- Ho Ming-Tzu**, *see* Ming-Tzu Ho, *T-AC Aug 03* 1404-1409
- Hong, F.**, *see* Ge, S.S., *T-AC Nov 03* 1-NEED
- Hong, X.**, *see* Chen, S., *T-AC Jun 03* 1029-1036
- Hong, Y.**, *see* Carvalho, J., *T-AC Dec 03* 2223-2228
- Hong Fan**, *see* Ge, S.S., *T-AC Nov 03* 2004-2010
- Hong-Gi Lee**, A. Arapostathis, and S.I. Marcus. Linearization of discrete-time systems via restricted dynamic feedback; *T-AC Sep 03* 1646-1650
- Hong Rok Kim**, *see* Youngjin Choi, *T-AC Feb 03* 315-320
- Hong Suh Il**, *see* Youngjin Choi, *T-AC Feb 03* 315-320
- Hong Wang**, *see* Hong Yue, *T-AC Jan 03* 118-122
- Hong Yue**, and Hong Wang. Minimum entropy control of closed-loop tracking errors for dynamic stochastic systems; *T-AC Jan 03* 118-122
- Hovakimyan, N.**, *see* Lavretsky, E., *T-AC Sep 03* 1606-1610
- Ho Yu-Chi**, *see* Yu-Chi Ho, *T-AC May 2003* 783-793
- Hsieh Chien-Shu**, *see* Chien-Shu Hsieh, *T-AC Feb 03* 289-293
- Hsu, L.**, *see* Cunha, J.P.V.S., *T-AC Dec 03* 2245-2250
- Hua Changchun**, *see* Xiping Guan, *T-AC May 2003* 907
- Huang, S.** and M.R. James. ∞ -bounded robustness for nonlinear systems: Analysis and synthesis; *T-AC Nov 03* 1875-1891
- Huang Jeng Tze**, *see* Jeng Tze Huang, *T-AC May 2003* 878-880
- Huang Jie**, *see* Xudong Ye, *T-AC Feb 03* 276-281
- Huang Jie**, *see* Jie Huang, *T-AC May 2003* 880-885
- Huang Jie**, *see* Daizhan Cheng, *T-AC May 2003* 885-890
- Huang Jie**, *see* Weiyao Lan, *T-AC Jul 03* 1274-1280
- Huang Shoudong**, *see* Shoudong Huang, *T-AC Nov 03* 1875-1891
- Huang Sunan**, *see* Sunan Huang, *T-AC May 2003* 805-810
- Huaping Dai**, and Youxian Sun. An algebraic model for performance evaluation of timed event multigraphs; *T-AC Jul 03* 1227-1230
- Huijun Gao**, and Changhong Wang. Comments and further results on "A descriptor system approach to H_∞ control of linear time-delay systems"; *T-AC Mar 03* 520-525
- Huijun Gao**, and Changhong Wang. Delay-dependent robust H_∞ and L_2 - L_∞ filtering for a class of uncertain nonlinear time-delay systems; *T-AC Sep 03* 1661-1666
- Huijun Gao**, Changhong Wang, and Lu Zhao. Comments on "an LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays"; *T-AC Nov 03* 2073-2074
- Hu Tingshu**, *see* Tingshu Hu, *T-AC Mar 03* 440-450
- Hu Tingshu**, *see* Tingshu Hu, *T-AC Jul 03* 1249-1253
- Hwang Yean-Ren**, *see* Min-Shin Chen, *T-AC Jan 03* 106-110
- Hwang Yean-Ren**, *see* Yean-Ren Hwang, *T-AC Apr 03* 701-705
- Hyeong Soo Chang**, P.J. Fard, S.I. Marcus, and M. Shayman. Multitime scale Markov decision processes; *T-AC Jun 03* 976-987
- Hyeong Soo Chang**, and S.I. Marcus. Two-person zero-sum Markov games: receding horizon approach; *T-AC Nov 03* 1951-1961
- Hyungbo Shim**, and J.H. Seo. Recursive nonlinear observer design: beyond the uniform observability; *T-AC Feb 03* 294-298
- ## I
- Ibrir, S.** Online exact differentiation and notion of asymptotic algebraic observers; *T-AC Nov 03* 2055-2060
- Ichmann, A.**, and E.P. Ryan. On gain adaptation in adaptive control; *T-AC May 2003* 895-899

- II Hong Suh**, *see* Youngjin Choi, *T-AC Feb 03* 315-320
- Imura, J.-I.** Well-posedness analysis of switch-driven piecewise affine systems; *T-AC Nov 03* 1926-1935
- Imura Jun-ichi**, *see* Jun-ichi Imura, *T-AC Nov 03* 1926-1935
- Inanc, T.**, *see* Sznaier, M., *T-AC Mar 03* 355-368
- Ioannou, P.A.**, *see* Haojian Xu, *T-AC May 2003* 728-742
- Ioannou, P.A.**, *see* Youping Zhang, *T-AC Nov 03* 1908-1925
- Ioannou, P.A.**, *see* Zhang, Y., *T-AC Nov 03* 1908-1925
- Iordache, M.V.**, and P.J. Antsaklis. Design of T-liveness enforcing supervisors in Petri nets; *T-AC Nov 03* 1962-1974
- Iordache, M.V.**, and P.J. Antsaklis. Design of T/liveness enforcing supervisors in Petri nets; *T-AC Nov 03* 1962-1974
- Iordache, M.V.**, and P.J. Antsaklis. Synthesis of supervisors enforcing general linear constraints in Petri nets; *T-AC Nov 03* 2036-2039
- Ishizaki, F.**, G.C. Lin, and Tatsuya Suda. An application of the proportional relation to concurrent estimation; *T-AC Oct 03* 1861-1865
- Isidori, A.**, L. Marconi, and A. Serrani. Robust nonlinear motion control of a helicopter; *T-AC Mar 03* 413-426
- Isidori, A.**, *see* Byrnes, C.I., *T-AC Oct 03* 1712-1723
- Iwasaki, T.**, S. Hara, and H. Yamauchi. Dynamical system design from a control perspective: finite frequency positive-realness approach; *T-AC Aug 03* 1337-1354
- J**
- Jadbabaie, A.**, Jie Lin, and A.S. Morse. Coordination of groups of mobile autonomous agents using nearest neighbor rules; *T-AC Jun 03* 988-1001
- Jaewook Lee** Dynamic gradient approaches to compute the closest unstable equilibrium point for stability region estimate and their computational limitations; *T-AC Feb 03* 321-324
- James, M.R.**, *see* Huang, S., *T-AC Nov 03* 1875-1891
- James, M.R.**, *see* Shoudong Huang, *T-AC Nov 03* 1875-1891
- Jank, G.**, and H. Abou-Kandil. Existence and uniqueness of open-loop Nash equilibria in linear-quadratic discrete time games; *T-AC Feb 03* 267-271
- Jard, C.**, *see* Benveniste, A., *T-AC May 2003* 714-727
- Jason Sheng-Hong Tsai**, *see* Chien-Yu Lu, *T-AC Feb 03* 286-289
- Jeltsema, D.**, *see* Ortega, R., *T-AC Oct 03* 1762-1767
- Jemaa, L.B.**, and E.J. Davison. Performance limitations in the robust servomechanism problem for discrete-time LTI systems; *T-AC Aug 03* 1299-1311
- Jeng Tze Huang** Sufficient conditions for parameter convergence in linearizable systems; *T-AC May 2003* 878-880
- Jian'an Fang**, Guoxiang Gu, and Kang-Zhi Liu. Stability analysis for nonlinear feedback control systems with linear actuators; *T-AC Apr 03* 649-654
- Jian Chu**, *see* Jun Wu, *T-AC May 2003* 816-822
- Jian Chu**, *see* Wei-Jie Mao, *T-AC Jun 03* 1007-1012
- Jiang, Z.P.**, *see* Zairong Xi, *T-AC Oct 03* 1793-1798
- Jiang, Z.P.**, *see* Do, K.D., *T-AC Dec 03* 2212-2217
- Jiang Shengbing**, *see* Shengbing Jiang, *T-AC Mar 03* 369-381
- Jian-Xin Xu**, and R. Yang. Fixed point theorem-based iterative learning control for LTV systems with input singularity; *T-AC Mar 03* 487-492
- Jian-Xin Xu**, and Ying Tan. Authors' reply [to comments on "A composite energy function-based learning control approach for nonlinear systems with time-varying parametric uncertainties"]; *T-AC Sep 03* 1672-1674
- Jia Yingmin**, *see* Yuanqing Xia, *T-AC Jun 03* 1086-1091
- Jia Yingmin**, *see* Yingmin Jia, *T-AC Aug 03* 1413-1416
- Jie Chen**, S. Hara, and Gang Chen. Best tracking and regulation performance under control energy constraint; *T-AC Aug 03* 1320-1336
- Jie Chen**, *see* Weizhou Su, *T-AC Aug 03* 1371-1380
- Jie Huang**, *see* Xudong Ye, *T-AC Feb 03* 276-281
- Jie Huang** On the solvability of the regulator equations for a class of nonlinear systems; *T-AC May 2003* 880-885
- Jie Huang**, *see* Daizhan Cheng, *T-AC May 2003* 885-890
- Jie Huang**, *see* Weiyao Lan, *T-AC Jul 03* 1274-1280
- Jie Lin**, *see* Jadbabaie, A., *T-AC Jun 03* 988-1001
- Ji-Feng Zhang**, *see* Le Yi Wang, *T-AC Nov 03* 1892-1907
- Jing Zhujun**, *see* Rong Yuan, *T-AC Feb 03* 344-348
- Jin Xu**, *see* Qiang Zhang, *T-AC May 2003* 794-797
- Jin Yufang**, *see* Zhihua Qu, *T-AC Feb 03* 336-343
- Jitao Sun**, Yinping Zhang, and Qidi Wu. Less conservative conditions for asymptotic stability of impulsive control systems; *T-AC May 2003* 829-831
- Johansen, T.A.**, and A. Grancharova. Approximate explicit constrained linear model predictive control via orthogonal search tree; *T-AC May 2003* 810-815
- Johansen, T.A.** Reduced explicit constrained linear quadratic regulators; *T-AC May 2003* 823-829
- Johansson, K.H.**, *see* Lygeros, J., *T-AC Jan 03* 2-17
- Johansson, M.**, *see* Lin Xiao, *T-AC Jan 03* 148-153
- Jong Gwo-Jia**, *see* Chien-Yu Lu, *T-AC Feb 03* 286-289
- Junger, I.B.**, and J.J. Steil. Static sliding-motion phenomena in dynamical systems; *T-AC Apr 03* 680-686
- Jun-ichi Imura** Well-posedness analysis of switch-driven piecewise affine systems; *T-AC Nov 03* 1926-1935
- Jun Wu**, Sheng Chen, J.F. Whidborne, and Jian Chu. A unified closed-loop stability measure for finite-precision digital controller realizations implemented in different representation schemes; *T-AC May 2003* 816-822
- Jun Zhang**, *see* Lygeros, J., *T-AC Jan 03* 2-17
- K**
- Kabamba, P.T.**, *see* Yongsoo Eun, *T-AC Sep 03* 1666-1671
- Kang Wei**, *see* Wei Kang, *T-AC Oct 03* 1724-1736
- Kang-Zhi Liu**, *see* Jian'an Fang, *T-AC Apr 03* 649-654
- Kar, P.K.**, *see* Das, S.K., *T-AC Nov 03* 2045-2050
- Katsikopoulos, K.V.**, and S.E. Engelbrecht. Markov decision processes with delays and asynchronous cost collection; *T-AC Apr 03* 568-574
- Kawabata, K.**, T. Mori, and Y. Kuroe. Directional stability radius: a stability analysis tool for uncertain polynomial systems; *T-AC Jun 03* 1012-1015
- Kazantzis, N.**, *see* MingQing Xiao, *T-AC Apr 03* 622-626
- Keel, L.H.**, *see* Tantaros, R.N., *T-AC May 2003* 858-860
- Keel, L.H.**, J.I. Rego, and S.P. Bhattacharyya. A new approach to digital PID controller design; *T-AC Apr 03* 687-692
- Keel, L.H.**, *see* Kim, Y.C., *T-AC Dec 03* 2238-2244
- Kemao Peng**, *see* Chen, B.M., *T-AC Mar 03* 427-439
- Keqin Gu**, *see* Han, Q.L., *T-AC Sep 03* 1629-1633
- Khargonekar, P.P.**, *see* Lee, J.-W., *T-AC Feb 03* 224-235
- Kharitonov, V.**, and D. Melchor-Aguilar. Additional dynamics for general class of time-delay systems; *T-AC Jun 03* 1060-1063
- Kharitonov, V.L.**, and S.-I. Niculescu. On the stability of linear systems with uncertain delay; *T-AC Jan 03* 127-132
- Khmelnitsky, E.**, *see* Herbon, A., *T-AC Jun 03* 1025-1029
- Khorrami, F.**, *see* Krishnamurthy, P., *T-AC Dec 03* 2277-2284
- Kim, Y.C.**, L.H. Keel, and S.P. Bhattacharyya. Transient response control via characteristic ratio assignment; *T-AC Dec 03* 2238-2244
- Kim Hong Rok**, *see* Youngjin Choi, *T-AC Feb 03* 315-320
- Kimura, H.**, *see* Kueiming Lo, *T-AC Nov 03* 2019-2023
- Kimura, H.**, *see* Lo, K., *T-AC Nov 03* 2019-2023
- Kimura, H.**, *see* Yanagisawa, M., *T-AC Dec 03* 2107-2120
- Kimura, H.**, *see* Yanagisawa, M., *T-AC Dec 03* 2121-2132
- Kiong Tan Kok**, *see* Sunan Huang, *T-AC May 2003* 805-810
- Koditschek, D.E.**, *see* Westervelt, E.R., *T-AC Jan 03* 42-56
- Kojic, A.**, *see* Chengyu Cao, *T-AC Mar 03* 397-412
- Kok Kiong Tan**, *see* Sunan Huang, *T-AC May 2003* 805-810
- Koole, G.**, *see* Bhulai, S., *T-AC Aug 03* 1434-1438
- Kostin, A.E.** Reachability analysis in T-invariant-less Petri nets; *T-AC Jun 03* 1019-1024
- Kouvaritakis, B.**, *see* Bacic, M., *T-AC Jun 03* 1092-1096
- Kouvaritakis, B.**, *see* Bacic, M., *T-AC Aug 03* 1443-1447
- Kravaris, C.**, *see* MingQing Xiao, *T-AC Apr 03* 622-626
- Kreisselmeier, G.**, and R. Engel. Nonlinear observers for autonomous Lipschitz continuous systems; *T-AC Mar 03* 451-464
- Krener, A.J.**, *see* MingQing Xiao, *T-AC Apr 03* 622-626
- Krichman, M.**, *see* Sontag, E.D., *T-AC Jun 03* 1046-1049
- Krishnamurthy, P.**, F. Khorrami, and R.S. Chandra. Global high-gain based observer and backstepping controller for generalized output-feedback canonical form; *T-AC Dec 03* 2277-2284
- Krishnamurthy, V.**, *see* Singh, S., *T-AC Mar 03* 493-497
- Krogh, B.H.**, *see* Chutinan, A., *T-AC Jan 03* 64-75
- Kucera, V.**, *see* Henrion, D., *T-AC Jul 03* 1178-1186
- Kueiming Lo**, and H. Kimura. Recursive estimation methods for discrete systems; *T-AC Nov 03* 2019-2023
- Kulczycki, P.**, *see* Wisniewski, R., *T-AC Apr 03* 643-646
- Kumar, P.R.**, *see* Borkar, V.S., *T-AC Mar 03* 382-396

Kumar, R., see Shengbing Jiang, *T-AC Mar 03* 369-381
Kumar, R., see Arapostathis, A., *T-AC Jul 03* 1230-1234
Kunniyur, S.S., and R. Srikant. Stable, scalable, fair congestion control and AQM schemes that achieve high utilization in the Internet; *T-AC Nov 03* 2024-2028
Kuo Yu-Jeng, see Min-Shin Chen, *T-AC Jan 03* 106-110
Kuroe, Y., see Kawabata, K., *T-AC Jun 03* 1012-1015
Kwangjin Yang, see Youngjin Choi, *T-AC Feb 03* 315-320
Kwong, R.H., see Zad, S.H., *T-AC Jul 03* 1199-1212
Kyun Chung Wan, see Youngjin Choi, *T-AC Feb 03* 315-320

L

Lacy, S.L., and D.S. Bernstein. Subspace identification with guaranteed stability using constrained optimization; *T-AC Jul 03* 1259-1263
Lafortune, S., see Rudie, K., *T-AC Jun 03* 957-975
Lafortune, S., see Rohloff, K., *T-AC Jun 03* 1064-1068
Lafortune, S., see Rohloff, K., *T-AC Nov 03* 1995-1998
Lafortune, S., see Rohloff, K., *T-AC Nov 03* 1995-1999
Lagoa, C.M. Probabilistic enhancement of classical robustness margins: A class of nonsymmetric distributions; *T-AC Nov 03* 1990-1994
Lagoa, C.M. Probabilistic enhancement of classical robustness margins: a class of nonsymmetric distributions; *T-AC Nov 03* 1990-1994
Lagoa, C.M., X. Li, and M. Sznajder. On the design of robust controllers for arbitrary uncertainty structures; *T-AC Nov 03* 2061-2064
Lagoa, C.M., Xiang Li, and M. Sznajder. On the design of robust controllers for arbitrary uncertainty structures; *T-AC Nov 03* 2061-2065
Lai, Y.-T., see Yau, S.S.-T., *T-AC Mar 03* 505-508
Laila, D.S., and D. Nesic. Discretetime Lyapunov-based small-gain theorem for parameterized interconnected ISS systems; *T-AC Oct 03* 1783-1788
Lall, S., and C. Beck. Error-bounds for balanced model-reduction of linear time-varying systems; *T-AC Jun 03* 946-956
Lam, J., see Shengyuan Xu, *T-AC May 2003* 900-907
Lam, J., see Xu, S., *T-AC Dec 03* 2217-2222
Lan Weiyao, see Weiyao Lan, *T-AC Jul 03* 1274-1280
Lau, K., R.H. Middleton, and J.H. Braslavsky. Undershoot and settling time tradeoffs for nonminimum phase systems; *T-AC Aug 03* 1389-1393
Lavretsky, E., N. Hovakimyan, and A.J. Calise. Upper bounds for approximation of continuous-time dynamics using delayed outputs and feedforward neural networks; *T-AC Sep 03* 1606-1610
Lee, D.C., see Spitler, S.L., *T-AC Oct 03* 1830-1836
Lee, J.-W., and P.P. Khargonekar. A convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers; *T-AC Feb 03* 224-235
Lee, T.H., see Chen, B.M., *T-AC Mar 03* 427-439
Lee, T.H., see Ge, S.S., *T-AC Nov 03* 1-NEED
Lee, Y.L., see Bacic, M., *T-AC Jun 03* 1092-1096
Lee Chien-Hua, see Chien-Hua Lee, *T-AC Aug 03* 1409-1413
Lee Hong-Gi, see Hong-Gi Lee, *T-AC Sep 03* 1646-1650
Lee Jaewook, see Jaewook Lee, *T-AC Feb 03* 321-324
Lee Tong Heng, see Sunan Huang, *T-AC May 2003* 805-810
Lee Tong Heng, see Ge, S.S., *T-AC Nov 03* 2004-2010
Lei Guo, see Daizhan Cheng, *T-AC May 2003* 885-890
Leite, V.J.S., and P.L.D. Peres. An improved LMI condition for robust D-stability of uncertain polytopic systems; *T-AC Mar 03* 500-504
Leiva, H., and S. Sigmund. A necessary algebraic condition for controllability and observability of linear time-varying systems; *T-AC Dec 03* 2229-2232
Le Wang, Y., J.-F. Zhang, and G.G. Yin. System identification using binary sensors; *T-AC Nov 03* 1892-1907
Le Yi Wang, Ji-Feng Zhang, and G.G. Yin. System identification using binary sensors; *T-AC Nov 03* 1892-1907
Li, X., see Lagoa, C.M., *T-AC Nov 03* 2061-2064
Liao Xiaoxin, see Yuli Fu, *T-AC Jan 03* 133-138
Liberzon, D. On stabilization of linear systems with limited information; *T-AC Feb 03* 304-307
Li Chunwen, see Yuzhen Wang, *T-AC Aug 03* 1428-1433
Li Guangwei, see Guangwei Li, *T-AC May 2003* 908
Lin, G.C., see Ishizaki, F., *T-AC Oct 03* 1861-1865
Lin, W., see Baillieul, J., *T-AC Oct 03* 1681-1682
Lin, Z., see Chitour, Y., *T-AC Dec 03* 2196-2198
Lin Chia-Yi, see Ming-Tzu Ho, *T-AC Aug 03* 1404-1409
Lin Chuang, see Chuang Lin, *T-AC Jul 03* 1235-1238
Lindquist, A., see Blomqvist, A., *T-AC Dec 03* 2172-2190
Lin Feng, see Rudie, K., *T-AC Jun 03* 957-975

Lin Jie, see Jadbabaie, A., *T-AC Jun 03* 988-1001
Linnemann, A., see Tanimou, M., *T-AC Jun 03* 1016-1018
Lin Wei, see Wei Lin, *T-AC Mar 03* 497-499
Lin Wei, see Qi Gong, *T-AC Jun 03* 1049-1054
Lin Wei, see Daizhan Cheng, *T-AC Jul 03* 1242-1248
Lin Wei, see Wei Lin, *T-AC Oct 03* 1737-1749
Lin Wei, see Wei Lin, *T-AC Oct 03* 1809-1816
Lin Wei, see Chunjiang Qian, *T-AC Oct 03* 1824-1829
Lin Xiao, M. Johansson, H. Hindi, S. Boyd, and A. Goldsmith. Joint optimization of communication rates and linear systems; *T-AC Jan 03* 148-153
Lin Zongli, see Tingshu Hu, *T-AC Mar 03* 440-450
Lin Zongli, see Tingshu Hu, *T-AC Jul 03* 1249-1253
Li Qiu, see Weizhou Su, *T-AC Aug 03* 1371-1380
Liu, D. Control Systems with Actuator Saturation: Analysis and Design; *T-AC Jun 03* 1116-1117
Liu, X., see Chu, D., *T-AC Jan 03* 174-176
Liu, Y., and W. Gong. On fluid queueing systems with strict priority; *T-AC Dec 03* 2079-2088
Liu Kang-Zhi, see Jian'an Fang, *T-AC Apr 03* 649-654
Liu Xiaohui, see Zidong Wang, *T-AC Jul 03* 1254-1258
Liu Xiaoping, see Guangwei Li, *T-AC May 2003* 908
Liu Yang, see Yang Liu, *T-AC Jan 03* 76-95
Liu Yang, see Yang Liu, *T-AC Oct 03* 1848-1854
Liu Yungang, see Yungang Liu, *T-AC Mar 03* 509-513
Liu Yun-Hui, see Bugong Xu, *T-AC Apr 03* 697-701
Liu Yusheng, see Yusheng Liu, *T-AC Jun 03* 1041-1045
Li Xiang, see Lagoa, C.M., *T-AC Nov 03* 2061-2065
Li Xing-Yuan, see Yusheng Liu, *T-AC Jun 03* 1041-1045
Lizarralde, F., see Cunha, J.P.V.S., *T-AC Dec 03* 2245-2250
Llanos Villarreal, E.R., see Castelan, E.B., *T-AC Apr 03* 654-660
Lo, K., and H. Kimura. Recursive estimation methods for discrete systems; *T-AC Nov 03* 2019-2023
Loh, A.P., C.Y. Qu, and K.F. Fong. Adaptive control of discrete time systems with concave/convex parametrizations; *T-AC Jun 03* 1069-1072
Lo Kueiming, see Kueiming Lo, *T-AC Nov 03* 2019-2023
Lu Chien-Yu, see Chien-Yu Lu, *T-AC Feb 03* 286-289
Lucibello, P. Comments on "Nonlinear repetitive control"; *T-AC Aug 03* 1470-1471
Ludlage, J.H.A., S. Weiland, A.A. Stoorvogel, and T.A.C.P.M. Backx. Finite-time behavior of inner systems; *T-AC Jul 03* 1134-1149
Luonan Chen, see Rong Yuan, *T-AC Feb 03* 344-348
Lu Yingdong, see Yingdong Lu, *T-AC Oct 03* 1865-1869
Lu Zhao, see Huijun Gao, *T-AC Nov 03* 2073-2074
Lygeros, J., K.H. Johansson, S.N. Simic, Jun Zhang, and S.S. Sastry. Dynamical properties of hybrid automata; *T-AC Jan 03* 2-17

M

Maggiore, M., and K.M. Passino. A separation principle for a class of non-UCO systems; *T-AC Jul 03* 1122-1133
Maggiore, M., and K.M. Passino. A separation principle for non-UCO systems: the jet engine stall and surge example; *T-AC Jul 03* 1264-1269
Magni, L., see Fontes, F.A.C.C., *T-AC Oct 03* 1750-1755
Maia, C.A., L. Hardouin, R. Santos-Mendes, and B. Cottenceau. Optimal closed-loop control of timed event graphs in dioids; *T-AC Dec 03* 2284-2287
Maimon, O., see Herbon, A., *T-AC Jun 03* 1025-1029
Maithripala, D.H.S., J.M. Berg, and W.P. Dayawansa. Loss of structurally stable regulation implies loss of stability; *T-AC Mar 03* 483-486
Makila, P.M. Intrinsic difficulties in stochastic control of unstable convolution operators on Z ; *T-AC Nov 03* 2015-2018
Mao Wei-Jie, see Wei-Jie Mao, *T-AC Jun 03* 1007-1012
Marconi, L., see Isidori, A., *T-AC Mar 03* 413-426
Marconi, L. Semiglobal regulation of linear systems in presence of measurement constraint; *T-AC Aug 03* 1417-1421
Marcus, S.I., see Hyeong Soo Chang, *T-AC Jun 03* 976-987
Marcus, S.I., see Ying He, *T-AC Aug 03* 1459-1463
Marcus, S.I., see Hong-Gi Lee, *T-AC Sep 03* 1646-1650
Marcus, S.I., see Chang, H.S., *T-AC Nov 03* 1951-1961
Marcus, S.I., see Hyeong Soo Chang, *T-AC Nov 03* 1951-1961
Marinescu, B., and H. Bourles. The exact model-matching problem for linear time-varying systems: an algebraic approach; *T-AC Jan 03* 166-169
Marinescu, D.C., see Chuang Lin, *T-AC Jul 03* 1235-1238

- Marino, R.**, and P. Tomei. Output regulation for linear systems via adaptive internal model; *T-AC Dec 03* 2199-2202
- Martínez, S.**, J. Cortes, and F. Bullo. Analysis and design of oscillatory control systems; *T-AC Jul 03* 1164-1177
- Ma Runnian**, *see* Qiang Zhang, *T-AC May 2003* 794-797
- Mason, O.**, *see* Shorten, R., *T-AC Jan 03* 110-113
- Matveev, A.S.**, and A.V. Savkin. The problem of state estimation via asynchronous communication channels with irregular transmission times; *T-AC Apr 03* 670-676
- Mayne, D.Q.**, *see* Rao, C.V., *T-AC Feb 03* 246-258
- Mazenc, F.**, S. Mondie, and S.-I. Niculescu. Global asymptotic stabilization for chains of integrators with a delay in the input; *T-AC Jan 03* 57-63
- Mazzaro, M.C.**, *see* Sznaier, M., *T-AC Sep 03* 1619-1624
- McEneaney, W.M.** Max-plus eigenvector representations for solution of nonlinear H_∞ problems: basic concepts; *T-AC Jul 03* 1150-1163
- Meerkov, S.M.**, *see* Yongsoon Eun, *T-AC Sep 03* 1666-1671
- Megretski, A.**, *see* Goncalves, J.M., *T-AC Dec 03* 2089-2106
- Melchor-Aguilar, D.**, *see* Kharitonov, V., *T-AC Jun 03* 1060-1063
- Melody, J.**, T. Basar, and F. Bullo. On nonlinear controllability of homogeneous systems linear in control; *T-AC Jan 03* 139-143
- Miani, S.**, *see* Blanchini, F., *T-AC Jun 03* 1081-1086
- Michiels, W.**, *see* Mondie, S., *T-AC Dec 03* 2207-2212
- Middleton, R.H.**, *see* Chen, J., *T-AC Aug 03* 1297
- Middleton, R.H.**, *see* Freudenberg, J.S., *T-AC Aug 03* 1355-1370
- Middleton, R.H.**, *see* Lau, K., *T-AC Aug 03* 1389-1393
- Miller, D.E.** A new approach to model reference adaptive control; *T-AC May 2003* 743-757
- Ming Ge**, *see* Ya-Gang Wang, *T-AC May 2003* 873-878
- Mingjun Zhang**, and Tzyh-Jong Tarn. A hybrid switching control strategy for nonlinear and underactuated mechanical systems; *T-AC Oct 03* 1777-1782
- Mingqing Xiao**, N. Kazantzis, C. Kravaris, and A.J. Krener. Nonlinear discrete-time observer design with linearizable error dynamics; *T-AC Apr 03* 622-626
- Mingqing Xiao**, *see* Wei Kang, *T-AC Oct 03* 1724-1736
- Ming-Tzu Ho**, and Chia-Yi Lin. PID controller design for robust performance; *T-AC Aug 03* 1404-1409
- Mingwei Xu**, *see* Chuang Lin, *T-AC Jul 03* 1235-1238
- Mingxuan Sun**, and D. Wang. Initial shift issues on discrete-time iterative learning control with system relative degree; *T-AC Jan 03* 144-148
- Min-Shin Chen**, Yean-Ren Hwang, and Yu-Jeng Kuo. Exponentially stabilizing division controllers for dyadic bilinear systems; *T-AC Jan 03* 106-110
- Min-Shin Chen**, *see* Yean-Ren Hwang, *T-AC Apr 03* 701-705
- Mirkin, B.M.** Comments on "Exact output tracking in decentralized adaptive control"; *T-AC Feb 03* 348-350
- Mirkin, B.M.**, and P.O. Gutman. Decentralized output-feedback MRAC of linear state delay systems; *T-AC Sep 03* 1613-1619
- Mirkin, L.**, and G. Tadmor. Yet another H^∞ discretization; *T-AC May 2003* 891-894
- Mirkin, L.** On the extraction of deadtime controllers and estimators from delay-free parametrizations; *T-AC Apr 03* 543-553
- Mirkin, L.**, and Q.-C. Zhong. 2DOF controller parametrization for systems with a single I/O delay; *T-AC Nov 03* 1999-2003
- Mirkin, L.**, and Qing-Chang Zhong. 2DOF controller parametrization for systems with a single I/O delay; *T-AC Nov 03* 1999-2003
- Misawa, E.A.**, *see* Richter, H., *T-AC Aug 03* 1453-1458
- Mitter, S.K.** Linear Estimation (Kailath, T., et al.; 2000) [book review]; *T-AC Jan 03* 177-180
- Mondie, S.**, *see* Mazenc, F., *T-AC Jan 03* 57-63
- Mondie, S.**, and W. Michiels. Finite spectrum assignment of unstable time-delay systems with a safe implementation; *T-AC Dec 03* 2207-2212
- Monzon, P.** On necessary conditions for almost global stability; *T-AC Apr 03* 631-634
- Moog, C.H.**, *see* Xia, X., *T-AC Feb 03* 330-336
- Morari, M.**, *see* Bemporad, A., *T-AC Sep 03* 1600-1606
- Moreau, L.**, *see* Teel, A.R., *T-AC Sep 03* 1526-1544
- Mori, K.** Controller parameterization of Anantharam's example; *T-AC Sep 03* 1655-1656
- Mori, T.**, *see* Kawabata, K., *T-AC Jun 03* 1012-1015
- Morin, P.**, and C. Samson. Practical stabilization of driftless systems on Lie groups: the transverse function approach; *T-AC Sep 03* 1496-1508
- Morse, A.S.**, *see* Jadbabaie, A., *T-AC Jun 03* 988-1001
- Murphy, T.E.**, Xiaojun Geng, and J. Hammer. On the control of asynchronous machines with races; *T-AC Jun 03* 1073-1081
- N**
- Nagamune, R.** A robust solver using a continuation method for Nevanlinna-Pick interpolation with degree constraint; *T-AC Jan 03* 113-117
- Nagamune, R.**, *see* Blomqvist, A., *T-AC Dec 03* 2172-2190
- Nagurka, M.**, *see* Yaniv, O., *T-AC Nov 03* 2069-2072
- Narendra, K.S.**, *see* Shorten, R., *T-AC Jan 03* 110-113
- Narendra, K.S.** Author's reply [to comments on 'Exact output tracking in decentralized adaptive control']; *T-AC Feb 03* 350-351
- Narendra, K.S.**, *see* Shorten, R.N., *T-AC Apr 03* 618-621
- Natale, C.**, *see* Cavallo, A., *T-AC Mar 03* 469-472
- Nesic, D.**, *see* Teel, A.R., *T-AC Sep 03* 1526-1544
- Nesic, D.**, *see* Laila, D.S., *T-AC Oct 03* 1783-1788
- Niculescu, S.-I.**, *see* Mazenc, F., *T-AC Jan 03* 57-63
- Niculescu, S.-I.**, *see* Kharitonov, V.L., *T-AC Jan 03* 127-132
- O**
- Ooba, T.** Stability of linear discrete dynamics employing state saturation arithmetic; *T-AC Apr 03* 626-630
- Orlov, Y.** Extended invariance principle for nonautonomous switched systems; *T-AC Aug 03* 1448-1452
- Ortega, R.**, *see* Astolfi, A., *T-AC Apr 03* 590-606
- Ortega, R.**, D. Jeltsema, and J.M.A. Scherpen. Power shaping: a new paradigm for stabilization of nonlinear RLC circuits; *T-AC Oct 03* 1762-1767
- P**
- Paden, B.**, *see* Ghosh, J., *T-AC Aug 03* 1471
- Paden, B.**, *see* Ghosh, J., *T-AC Aug 03* 1471-1472
- Pan, J.**, *see* Do, K.D., *T-AC Dec 03* 2212-2217
- Panayiotou, C.G.**, *see* Cassandras, C.G., *T-AC May 2003* 770-782
- Pannocchia, G.**, S.J. Wright, and J.B. Rawlings. Existence and computation of infinite horizon model predictive control with active steady-state input constraints; *T-AC Jun 03* 1002-1006
- Pan Zigang**, *see* Yungang Liu, *T-AC Mar 03* 509-513
- Pappas, G.J.**, *see* Tabuada, P., *T-AC Aug 03* 1439-1442
- Passino, K.M.**, *see* Yang Liu, *T-AC Jan 03* 76-95
- Passino, K.M.**, *see* Gazi, V., *T-AC Apr 03* 692-697
- Passino, K.M.**, *see* Maggiore, M., *T-AC Jul 03* 1122-1133
- Passino, K.M.**, *see* Maggiore, M., *T-AC Jul 03* 1264-1269
- Passino, K.M.**, *see* Yang Liu, *T-AC Oct 03* 1848-1854
- Passino, K.M.** Software-Enabled Control: Information Technology for Dynamical Systems (Samad, T. and Balas, G.; 2003) [book review]; *T-AC Nov 03* 2075-2076
- Peaucelle, D.**, *see* Henrion, D., *T-AC Dec 03* 2255-2259
- Pellegrino, F.A.**, *see* Blanchini, F., *T-AC Jun 03* 1081-1086
- Pellegrino, F.A.**, *see* Blanchini, F., *T-AC Dec 03* 2151-2162
- Peng Kemao**, *see* Chen, B.M., *T-AC Mar 03* 427-439
- Pepe, P.**, and E.I. Verriest. On the stability of coupled delay differential and continuous time difference equations; *T-AC Aug 03* 1422-1427
- Pepyne, D.L.**, *see* Yu-Chi Ho, *T-AC May 2003* 783-793
- Peres, P.L.D.**, *see* Leite, V.J.S., *T-AC Mar 03* 500-504
- Perez, T.**, G.C. Goodwin, and M.M. Seron. Performance degradation in feedback control due to constraints; *T-AC Aug 03* 1381-1385
- Petersen, I.R.** Control Theory for Linear Systems (Trentelman, H.L. et al.; 2001) [book review]; *T-AC Mar 03* 526
- Petersen, I.R.**, *see* Savkin, A.V., *T-AC Apr 03* 676-680
- Pieper, J.K.**, *see* Shepit, B.M., *T-AC Jan 03* 122-127
- Pinsky, M.**, *see* Zevin, A., *T-AC Oct 03* 1799-1804
- Pironti, A.**, *see* Ariola, M., *T-AC Feb 03* 271-275
- Pisano, A.**, *see* Bartolini, G., *T-AC Feb 03* 325-330
- Pisu, P.**, *see* Bartolini, G., *T-AC Feb 03* 325-330
- Polycarpou, M.**, *see* Yang Liu, *T-AC Oct 03* 1848-1854
- Polycarpou, M.M.**, *see* Yang Liu, *T-AC Jan 03* 76-95
- Pongvuthithum, R.**, *see* Wei Lin, *T-AC Oct 03* 1737-1749
- Pongvuthithum, R.**, *see* Wei Lin, *T-AC Oct 03* 1809-1816
- Poon Fu Wah**, *see* Da-Wei Gu, *T-AC Jul 03* 1293-1294
- Postlethwaite, I.**, *see* Grimm, G., *T-AC Sep 03* 1509-1525
- Poznyak, A.S.**, Y.B. Shtsel, and C.J. Gallegos. Min-max sliding-mode control for multimodel linear time varying systems; *T-AC Dec 03* 2141-2150
- Praly, L.** Asymptotic stabilization via output feedback for lower triangular systems with output dependent incremental rate; *T-AC Jun 03* 1103-1108

- Prieur, C.**, and A. Astolfi. Robust stabilization of chained systems via hybrid control; *T-AC Oct 03* 1768-1772
Prokhorov, D.V., see Tyukin, I.Yu., *T-AC Apr 03* 554-567
Prokhorov, D.V., see Barabanov, N.E., *T-AC Nov 03* 1908-1925

Q

- Qian-Chuan Zhao.** see Yu-Chi Ho, *T-AC May 2003* 783-793
Qian Chunjiang. see Chunjiang Qian, *T-AC Oct 03* 1824-1829
Qiang Zhang. Runnian Ma, Chao Wang, and Jin Xu. On the global stability of delayed neural networks; *T-AC May 2003* 794-797
Qidi Wu. see Jitao Sun, *T-AC May 2003* 829-831
Qi Gong. see Wei Lin, *T-AC Mar 03* 497-499
Qi Gong. and Wei Lin. A note on global output regulation of nonlinear systems in the output feedback form; *T-AC Jun 03* 1049-1054
Qing-Chang Zhong. Control of integral processes with dead time.3. Deadbeat disturbance response; *T-AC Jan 03* 153-159
Qing-Chang Zhong. On standard H_8 control of processes with a single delay; *T-AC Jun 03* 1097-1103
Qing-Chang Zhong. see Mirkin, L., *T-AC Nov 03* 1999-2003
Qiu Li. see Weizhou Su, *T-AC Aug 03* 1371-1380
Qu, C.Y., see Loh, A.P., *T-AC Jun 03* 1069-1072
Qu Zhihua. see Zhihua Qu, *T-AC Feb 03* 336-343
Qu Zhihua. see Zhihua Qu, *T-AC Oct 03* 1817-1824

R

- Raja Sengupta.** see Seiler, P., *T-AC Sep 03* 1651-1654
Rao, C.V., J.B. Rawlings, and D.Q. Mayne. Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations; *T-AC Feb 03* 246-258
Rawlings, J.B., see Rao, C.V., *T-AC Feb 03* 246-258
Rawlings, J.B., see Pannocchia, G., *T-AC Jun 03* 1002-1006
Reginatto, R., and A.S. Bazanella. Robustness of global asymptotic stability in indirect field-oriented control of induction motors; *T-AC Jul 03* 1218-1222
Rego, J.I., see Keel, L.H., *T-AC Apr 03* 687-692
Regruto, D., see Cerone, V., *T-AC Oct 03* 1855-1860
Rehbinder, H., and B.K. Ghosh. Pose estimation using line-based dynamic vision and inertial sensors; *T-AC Feb 03* 186-199
Ren Fengyuan. see Chuang Lin, *T-AC Jul 03* 1235-1238
Rezg, N., see Ghaffari, A., *T-AC Jan 03* 18-29
Riaza, R. Double SIB points in differential-algebraic systems; *T-AC Sep 03* 1625-1629
Richter, H., and E.A. Misawa. Stability of discrete-time systems with quantized input and state measurements; *T-AC Aug 03* 1453-1458
Rodellar, J., see Bakule, L., *T-AC Jul 03* 1269-1274
Rohloff, K., and S. Lafortune. On the synthesis of safe control policies in decentralized control of discrete-event systems; *T-AC Jun 03* 1064-1068
Rohloff, K., T.-S. Yoo, and S. Lafortune. Deciding co-observability is PSPACE-complete; *T-AC Nov 03* 1995-1998
Rohloff, K., Tae-Sic Yoo, and S. Lafortune. Deciding co-observability is PSPACE-complete; *T-AC Nov 03* 1995-1999
Rok Kim Hong. see Youngjin Choi, *T-AC Feb 03* 315-320
Rong Yuan. Zhujun Jing, and Luonan Chen. Uniform asymptotic stability of hybrid dynamical systems with delay; *T-AC Feb 03* 344-348
Rossell, J.M., see Bakule, L., *T-AC Jul 03* 1269-1274
Rossiter, J.A. Stable prediction for unstable independent models; *T-AC Nov 03* 2029-2035
Rouchon, P., see Aghannan, N., *T-AC Jun 03* 936-945
Rudie, K., S. Lafortune, and Feng Lin. Minimal communication in a distributed discrete-event system; *T-AC Jun 03* 957-975
Runnian Ma. see Qiang Zhang, *T-AC May 2003* 794-797
Runyi Yu. and Dianhui Wang. On impulsive modes of linear singular systems subject to decentralized output feedback; *T-AC Oct 03* 1804-1809
Ryan, E.P., see Ilchmann, A., *T-AC May 2003* 895-899

S

- Salgado, M.E.**, see Goodwin, G.C., *T-AC Aug 03* 1312-1319
Samson, C., see Morin, P., *T-AC Sep 03* 1496-1508
Sanner, R.M., see Thienel, J., *T-AC Nov 03* 2011-2014
Sanner, R.M., see Thienel, J., *T-AC Nov 03* 2011-2015
Santos-Mendes, R., see Maia, C.A., *T-AC Dec 03* 2284-2287
Sastry, S.S., see Lygeros, J., *T-AC Jan 03* 2-17

- Savaresi, S.M.**, S. Bittanti, and H.C. So. Closed-form unbiased frequency estimation of a noisy sinusoid using notch filters; *T-AC Jul 03* 1285-1292
Savkin, A.V., see Matveev, A.S., *T-AC Apr 03* 670-676
Savkin, A.V., and I.R. Petersen. Set-valued state estimation via a limited capacity communication channel; *T-AC Apr 03* 676-680
Scherpen, J.M.A., see Ortega, R., *T-AC Oct 03* 1762-1767
Schmid, R., and Cishen Zhang. Performance limitations of nonlinear periodic sampled-data controllers for L_p disturbance rejection; *T-AC Aug 03* 1385-1388
Schreier, G., see Souleiman, I., *T-AC Dec 03* 2191-2196
Sebek, M., see Henrion, D., *T-AC Jul 03* 1178-1186
Sebek, M., see Henrion, D., *T-AC Dec 03* 2255-2259
Seiler, P., and Raja Sengupta. A bounded real lemma for jump systems; *T-AC Sep 03* 1651-1654
Seiler, P., see Smith, S.C., *T-AC Dec 03* 2163-2171
Sengupta Raja. see Seiler, P., *T-AC Sep 03* 1651-1654
Seo, J.H., see Hyungbo Shim, *T-AC Feb 03* 294-298
Seron, M.M., see Perez, T., *T-AC Aug 03* 1381-1385
Serrani, A., see Isidori, A., *T-AC Mar 03* 413-426
Shaked, U., see Fridman, E., *T-AC Jan 03* 159-165
Shaked, U., see Fridman, E., *T-AC May 2003* 861-866
Shaked, U. An LPD approach to robust H_2 and H_8 static output-feedback design; *T-AC May 2003* 866-872
Shamash, Y., see Tingshu Hu, *T-AC Jul 03* 1249-1253
Shamma, J.S., and J.R. Cloutier. Existence of SDRE stabilizing feedback; *T-AC Mar 03* 513-517
Shan Zhiguang. see Chuang Lin, *T-AC Jul 03* 1235-1238
Shayman, M., see Hyeong Soo Chang, *T-AC Jun 03* 976-987
Shengbing Jiang. R. Kumar, and H.E. Garcia. Optimal sensor selection for discrete-event systems with partial observation; *T-AC Mar 03* 369-381
Sheng Chen. see Jun Wu, *T-AC May 2003* 816-822
Sheng-Hong Tsai Jason. see Chien-Yu Lu, *T-AC Feb 03* 286-289
Shengyuan Xu. Tongwen Chen, and J. Lam. Robust H^∞ filtering for uncertain Markovian jump systems with mode-dependent time delays; *T-AC May 2003* 900-907
Shepit, B.M., and J.K. Pieper. Sliding-mode control design for a complex valued sliding manifold; *T-AC Jan 03* 122-127
Shim Hyungbo. see Hyungbo Shim, *T-AC Feb 03* 294-298
Shi Songjiao. see Yusun Fu, *T-AC Feb 03* 282-286
Shi Songjiao. see Yungang Liu, *T-AC Mar 03* 509-513
Shorten, R., K.S. Narendra, and O. Mason. A result on common quadratic Lyapunov functions; *T-AC Jan 03* 110-113
Shorten, R.N., and K.S. Narendra. On common quadratic Lyapunov functions for pairs of stable LTI systems whose system matrices are in companion form; *T-AC Apr 03* 618-621
Shoudong Huang. and M.R. James. \ddagger -bounded robustness for nonlinear systems: analysis and synthesis; *T-AC Nov 03* 1875-1891
Shtessel, Y.B., see Poznyak, A.S., *T-AC Dec 03* 2141-2150
Shyr, W.-J., see Su, T.-J., *T-AC Apr 03* 709
Siegmund, S., see Leiva, H., *T-AC Dec 03* 2229-2232
Siljak, D.D., see Zecevic, A.I., *T-AC Jun 03* 1036-1040
Silva, G.J., A. Datta, and S.P. Bhattacharyya. On the stability and controller robustness of some popular PID tuning rules; *T-AC Sep 03* 1638-1641
Simic, S.N., see Lygeros, J., *T-AC Jan 03* 2-17
Singh, S., and V. Krishnamurthy. The optimal search for a Markovian target when the search path is constrained: the infinite-horizon case; *T-AC Mar 03* 493-497
Skogestad, S., see Havre, K., *T-AC Aug 03* 1393-1398
Smith, S.C., and P. Seiler. Estimation with lossy measurements: Jump estimators for jump systems; *T-AC Dec 03* 2163-2171
So, H.C., see Savaresi, S.M., *T-AC Jul 03* 1285-1292
Sokolov, V.F. Adaptive suboptimal tracking for the first-order plant with Lipschitz uncertainty; *T-AC Apr 03* 607-612
Songjiao Shi. see Yusun Fu, *T-AC Feb 03* 282-286
Songjiao Shi. see Yungang Liu, *T-AC Mar 03* 509-513
Sontag, E.D. A remark on the converging-input converging-state property; *T-AC Feb 03* 313-314
Sontag, E.D., and M. Krichman. An example of a GAS system which can be destabilized by an integrable perturbation; *T-AC Jun 03* 1046-1049
Sontag, E.D., see Angeli, D., *T-AC Oct 03* 1684-1698
Soo Chang Hyeong. see Hyeong Soo Chang, *T-AC Jun 03* 976-987
Soo Chang Hyeong. see Hyeong Soo Chang, *T-AC Nov 03* 1951-1961
Souleiman, I., A. Glumineau, and G. Schreier. Direct transformation of nonlinear systems into state affine MISO form for observer design; *T-AC Dec 03* 2191-2196

Spitler, S.L., and D.C. Lee. Optimization of call admission control for a statistical multiplexer allocating link bandwidth; *T-AC Oct 03* 1830-1836

Srikant, R., see Deb, S., *T-AC Jun 03* 1055-1060

Srikant, R., see Kunniyur, S.S., *T-AC Nov 03* 2024-2028

Staroswiecki, M., see Darkhovski, B., *T-AC May 2003* 853-858

Steil, J.J., see Junger, I.B., *T-AC Apr 03* 680-686

Stein, G., see Gorinevsky, D., *T-AC Sep 03* 1557-1568

Stoorvogel, A.A., see Ludlage, J.H.A., *T-AC Jul 03* 1134-1149

Su, T.-J., Y.-C. Chen, W.-J. Shyr, and B.-W. Wang. Correction to "Robust D-stability for linear uncertain discrete time-delay systems" [Feb 94 425-439]; *T-AC Apr 03* 709

Suda Ta tsuya, see Ishizaki, F., *T-AC Oct 03* 1861-1865

Sugie, T., see Fujimoto, K., *T-AC Oct 03* 1756-1761

Suh Il Hong, see Youngjin Choi, *T-AC Feb 03* 315-320

Sunan Huang, Kok Kiong Tan, and Tong Heng Lee. Decentralized control design for large-scale systems with strong interconnections using neural networks; *T-AC May 2003* 805-810

Sun Gang, see Cassandras, C.G., *T-AC May 2003* 770-782

Sun Jitao, see Jitao Sun, *T-AC May 2003* 829-831

Sun Mingxuan, see Mingxuan Sun, *T-AC Jan 03* 144-148

Sun Youxian, see Huaping Dai, *T-AC Jul 03* 1227-1230

Sun Zhendong, see Zhendong Sun, *T-AC Oct 03* 1772-1776

Su Te Jen, see Chien-Yu Lu, *T-AC Feb 03* 286-289

Su Weizhou, see Weizhou Su, *T-AC Aug 03* 1371-1380

Suykens, J., see Goethals, I., *T-AC Oct 03* 1843-1847

Szabo, Z., see Balas, G., *T-AC Nov 03* 2065-2068

Szabo, Z., see Balas, G., *T-AC Nov 03* 2065-2069

Sznaier, M., T. Amishima, and T. Inanc. H control with time-domain constraints: theory and an application; *T-AC Mar 03* 355-368

Sznaier, M., and M.C. Mazzaro. An LMI approach to control-oriented identification and model (In) validation of LPV systems; *T-AC Sep 03* 1619-1624

Sznaier, M., see Lagoa, C.M., *T-AC Nov 03* 2061-2064

Sznaier, M., see Lagoa, C.M., *T-AC Nov 03* 2061-2065

T

Tabuada, P., and G.J. Pappas. From nonlinear to Hamiltonian via feedback; *T-AC Aug 03* 1439-1442

Tadmor, G., see Mirkin, L., *T-AC May 2003* 891-894

Tae-Sic Yoo, see Rohloff, K., *T-AC Nov 03* 1995-1999

Tan, R.C.E., see Chu, D., *T-AC Jan 03* 174-176

Tang, Y., see Yang, L., *T-AC Apr 03* 660-664

Tangirala, S., see Arapostathis, A., *T-AC Jul 03* 1230-1234

Tanimou, M., and A. Linnemann. *L_s-multipliers for robust performance analysis*; *T-AC Jun 03* 1016-1018

Tan Kok Kiong, see Sunan Huang, *T-AC May 2003* 805-810

Tantaris, R.N., L.H. Keel, and S.P. Bhattacharyya. Stabilization of discrete-time systems by first-order controllers; *T-AC May 2003* 858-860

Tan Ying, see Jian-Xin Xu, *T-AC Sep 03* 1672-1674

Tarbouriech, S., see Gomes da Silva, J.M., Jr., *T-AC May 2003* 842-847

Tarn Tzyh-Jong, see Mingjun Zhang, *T-AC Oct 03* 1777-1782

Tatsuya Suda, see Ishizaki, F., *T-AC Oct 03* 1861-1865

Tayebi, A., and M.B. Zaremba. Robust iterative learning control design is straightforward for uncertain LTI systems satisfying the robust performance condition; *T-AC Jan 03* 101-106

Teel, A.R., see Grimm, G., *T-AC Sep 03* 1509-1525

Teel, A.R., L. Moreau, and D. Nesic. A unified framework for input-to-state stability in systems with two time scales; *T-AC Sep 03* 1526-1544

Te-Jen Su, see Chien-Yu Lu, *T-AC Feb 03* 286-289

Terekhov, V.A., see Tyukin, I.Yu., *T-AC Apr 03* 554-567

Tesi, A., see Chesi, G., *T-AC Feb 03* 200-212

Thienel, J., and R.M. Sanner. A coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise; *T-AC Nov 03* 2011-2015

Thienel, J., and R.M. Sanner. A coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise; *T-AC Nov 03* 2011-2014

Tian Zuohua, see Yusun Fu, *T-AC Feb 03* 282-286

Tingshu Hu, and Zongli Lin. Composite quadratic Lyapunov functions for constrained control systems; *T-AC Mar 03* 440-450

Tingshu Hu, Zongli Lin, and Y. Shamash. On maximizing the convergence rate for linear systems with input saturation; *T-AC Jul 03* 1249-1253

Tomei, P., see Marino, R., *T-AC Dec 03* 2199-2202

Tong Heng Lee, see Sunan Huang, *T-AC May 2003* 805-810

Tong Heng Lee, see Ge, S.S., *T-AC Nov 03* 2004-2010

Tongwen Chen, see Shengyuan Xu, *T-AC May 2003* 900-907

Toochinda, V., see Freudenberg, J.S., *T-AC Aug 03* 1355-1370

Tsai Jason Sheng-Hong, see Chien-Yu Lu, *T-AC Feb 03* 286-289

Tuesta, E. F., see Costa, O.L.V., *T-AC Oct 03* 1836-1842

Turner, M.C., see Grimm, G., *T-AC Sep 03* 1509-1525

Tyukin, I.Yu., D.V. Prokhorov, and V.A. Terekhov. Adaptive control with nonconvex parameterization; *T-AC Apr 03* 554-567

Tze Huang Jeng, see Jeng Tze Huang, *T-AC May 2003* 878-880

Tzuyin Wu, see Yean-Ren Hwang, *T-AC Apr 03* 701-705

Tzyh-Jong Tarn, see Mingjun Zhang, *T-AC Oct 03* 1777-1782

U

Ugrinovskii, V.A. Observability of linear stochastic uncertain systems; *T-AC Dec 03* 2264-2269

V

Vandenberghe, L., see Balakrishnan, V., *T-AC Jan 03* 30-41

Van Dooren, P., see Goethals, I., *T-AC Oct 03* 1843-1847

Van Gestel, T., see Goethals, I., *T-AC Oct 03* 1843-1847

Van gucht, P., and A. Bultheel. Orthogonal rational functions for system identification: numerical aspects; *T-AC Apr 03* 705-709

Venkataramanan, V., see Chen, B.M., *T-AC Mar 03* 427-439

Verriest, E.I., see Pepe, P., *T-AC Aug 03* 1422-1427

Vicino, A., see Casini, M., *T-AC Jan 03* 96-101

Vicino, A., see Chesi, G., *T-AC Feb 03* 200-212

Voros, J. Recursive identification of hammerstein systems with discontinuous nonlinearities containing dead-zones; *T-AC Dec 03* 2203-2206

W

Wah Poon Fu, see Da-Wei Gu, *T-AC Jul 03* 1293-1294

Wang, B.-W., see Su, T.-J., *T-AC Apr 03* 709

Wang, C., see Gao, H., *T-AC Nov 03* 2073-2074

Wang, D., see Mingxuan Sun, *T-AC Jan 03* 144-148

Wang, J., see Ge, S.S., *T-AC Aug 03* 1463-1469

Wang Changhong, see Huijun Gao, *T-AC Mar 03* 520-525

Wang Changhong, see Huijun Gao, *T-AC Sep 03* 1661-1666

Wang Changhong, see Huijun Gao, *T-AC Nov 03* 2073-2074

Wang Chao, see Qiang Zhang, *T-AC May 2003* 794-797

Wang Dianhui, see Runyi Yu, *T-AC Oct 03* 1804-1809

Wang Fei-Yue, see Zhi-Wei Gao, *T-AC Feb 03* 299-303

Wang Hong, see Hong Yue, *T-AC Jan 03* 118-122

Wang Le Yi, see Le Yi Wang, *T-AC Nov 03* 1892-1907

Wang Ya-Gang, see Ya-Gang Wang, *T-AC May 2003* 873-878

Wang Yuzhen, see Yuzhen Wang, *T-AC Aug 03* 1428-1433

Wang Zidong, see Zidong Wang, *T-AC Jul 03* 1254-1258

Wan Kyun Chung, see Youngjin Choi, *T-AC Feb 03* 315-320

Wardi, Y., see Cassandras, C.G., *T-AC May 2003* 770-782

Weiguo Gao, and Yishao Zhou. Eigenvalue-based algorithms for testing positive realness of SISO systems; *T-AC Nov 03* 2051-2055

Wei-Jie Mao, and Jian Chu. Quadratic stability and stabilization of dynamic interval systems; *T-AC Jun 03* 1007-1012

Wei Kang, Mingqing Xiao, and I. Amadou Tall. Controllability and local accessibility - a normal form approach; *T-AC Oct 03* 1724-1736

Weiland, S., see Ludlage, J.H.A., *T-AC Jul 03* 1134-1149

Wei Lin, and Qi Gong. A remark on partial-state feedback stabilization of cascade systems using small gain theorem; *T-AC Mar 03* 497-499

Wei Lin, see Qi Gong, *T-AC Jun 03* 1049-1054

Wei Lin, see Daizhan Cheng, *T-AC Jul 03* 1242-1248

Wei Lin, and R. Pongvuthithum. Adaptive output tracking of inherently nonlinear systems with nonlinear parameterization; *T-AC Oct 03* 1737-1749

Wei Lin, and R. Pongvuthithum. Nonsmooth adaptive stabilization of cascade systems with nonlinear parameterization via partial-state feedback; *T-AC Oct 03* 1809-1816

Wei Lin, see Chunjiang Qian, *T-AC Oct 03* 1824-1829

- Weiyao Lan**, and Jie Huang. Semiglobal stabilization and output regulation of singular linear systems with input saturation; *T-AC Jul 03* 1274-1280
- Weizhou Su**, Li Qiu, and Jie Chen. Fundamental performance limitations in tracking sinusoidal signals; *T-AC Aug 03* 1371-1380
- Wen-Jian Cai**, see Ya-Gang Wang, *T-AC May 2003* 873-878
- Westervelt, E.R.**, J.W. Grizzle, and D.E. Koditschek. Hybrid zero dynamics of planar biped walkers; *T-AC Jan 03* 42-56
- Westervelt, E.R.**, J.W. Grizzle, and C. Canudas de Wit. Switching and PI control of walking motions of planar biped walkers; *T-AC Feb 03* 308-312
- Whidborne, J.F.**, see Jun Wu, *T-AC May 2003* 816-822
- Wisniewski, R.**, and P. Kulczycki. Rotational motion control of a spacecraft; *T-AC Apr 03* 643-646
- Wonham, W.M.**, see Gohari, P., *T-AC Jul 03* 1187-1198
- Wonham, W.M.**, see Zad, S.H., *T-AC Jul 03* 1199-1212
- Wright, S.J.**, see Pannocchia, G., *T-AC Jun 03* 1002-1006
- Wu Biqing**, see Biqing Wu, *T-AC Apr 03* 612-618
- Wu Jun**, see Jun Wu, *T-AC May 2003* 816-822
- Wu Qidi**, see Jitao Sun, *T-AC May 2003* 829-831
- Wu Tzuyin**, see Yean-Ren Hwang, *T-AC Apr 03* 701-705

X

- Xia, X.**, and C.H. Moog. Identifiability of nonlinear systems with application to HIV/AIDS models; *T-AC Feb 03* 330-336
- Xiang Li**, see Lagoa, C.M., *T-AC Nov 03* 2061-2065
- Xiaohui Liu**, see Zidong Wang, *T-AC Jul 03* 1254-1258
- Xiaojun Geng**, see Murphy, T.E., *T-AC Jun 03* 1073-1081
- Xiaolan Xie**, see Ghaffari, A., *T-AC Jan 03* 18-29
- Xiao Lin**, see Lin Xiao, *T-AC Jan 03* 148-153
- Xiao MingQing**, see MingQing Xiao, *T-AC Apr 03* 622-626
- Xiao Mingqing**, see Wei Kang, *T-AC Oct 03* 1724-1736
- Xiaoping Liu**, see Guangwei Li, *T-AC May 2003* 908
- Xiaoxin Liao**, see Yuli Fu, *T-AC Jan 03* 133-138
- Xia Yuanqing**, see Yuanqing Xia, *T-AC Jun 03* 1086-1091
- Xie, L.**, see Fridman, E., *T-AC Jan 03* 159-165
- Xie Xiaolan**, see Ghaffari, A., *T-AC Jan 03* 18-29
- Xinghuo Yu**, see Han, Q.L., *T-AC Sep 03* 1629-1633
- Xinghuo Yu**, and Guanrong Chen. Discretization behaviors of equivalent control based sliding-mode control systems; *T-AC Sep 03* 1641-1646
- Xing-Yuan Li**, see Yusheng Liu, *T-AC Jun 03* 1041-1045
- Xinping Guan**, Changchun Hua, and Guangren Duan. Comments on "Robust stabilization of a class of time-delay nonlinear systems"; *T-AC May 2003* 907
- Xi-Ren Cao** Semi-Markov decision problems and performance sensitivity analysis; *T-AC May 2003* 758-769
- Xi-Ren Cao**, and Bing Zeng. Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003) [book review]; *T-AC Sep 03* 1676-1678
- Xi Yugeng**, see Zhijun Chao, *T-AC Mar 03* 465-468
- Xi Zairong**, see Zairong Xi, *T-AC Oct 03* 1793-1798
- Xu, J.-X.**, see Chen, W.-H., *T-AC Dec 03* 2270-2277
- Xu, S.**, J. Lam, and Y. Zou. H/sub8/ filtering for singular systems; *T-AC Dec 03* 2217-2222
- Xu, X.** Impulsive Control in Continuous and Discrete-Continuous Systems (Miller, B.M. and Ya, E.) [book review]; *T-AC Dec 03* 2288-2289
- Xu Bugong**, see Bugong Xu, *T-AC Apr 03* 697-701
- Xudong Ye** Global adaptive control of nonlinearly parametrized systems; *T-AC Jan 03* 169-173
- Xudong Ye**, and Jie Huang. Decentralized adaptive output regulation for a class of large-scale nonlinear systems; *T-AC Feb 03* 276-281
- Xu Haojian**, see Haojian Xu, *T-AC May 2003* 728-742
- Xu Jian-Xin**, see Jian-Xin Xu, *T-AC Mar 03* 487-492
- Xu Jian-Xin**, see Jian-Xin Xu, *T-AC Sep 03* 1672-1674
- Xu Jin**, see Qiang Zhang, *T-AC May 2003* 794-797
- Xu Mingwei**, see Chuang Lin, *T-AC Jul 03* 1235-1238
- Xu Shengyuan**, see Shengyuan Xu, *T-AC May 2003* 900-907

Y

- Ya-Gang Wang**, Wen-Jian Cai, and Ming Ge. Decentralized relay-based multivariable process identification in the frequency domain; *T-AC May 2003* 873-878

- Yakubov, Y.**, see Herbon, A., *T-AC Jun 03* 1025-1029
- Yamauchi, H.**, see Iwasaki, T., *T-AC Aug 03* 1337-1354
- Yan, R.**, see Jian-Xin Xu, *T-AC Mar 03* 487-492
- Yanagisawa, M.**, and H. Kimura. Transfer function approach to quantum control part I: Dynamics of quantum feedback systems; *T-AC Dec 03* 2107-2120
- Yanagisawa, M.**, and H. Kimura. Transfer function approach to quantum control part II: Control concepts and applications; *T-AC Dec 03* 2121-2132
- Yang, L.**, Y. Tang, and D. Du. On Hopf bifurcations in singularly perturbed systems; *T-AC Apr 03* 660-664
- Yang Kwangjin**, see Youngjin Choi, *T-AC Feb 03* 315-320
- Yang Liu**, K.M. Passino, and M.M. Polycarpou. Stability analysis of M dimensional asynchronous swarms with a fixed communication topology; *T-AC Jan 03* 76-95
- Yang Liu**, K.M. Passino, and M. Polycarpou. Stability analysis of one-dimensional asynchronous swarms; *T-AC Oct 03* 1848-1854
- Yaniv, O.**, and M. Nagurka. Robust PI controller design satisfying sensitivity and uncertainty specifications; *T-AC Nov 03* 2069-2072
- Yao, D.D.**, see Yingdong Lu, *T-AC Oct 03* 1865-1869
- Yau, S.S.-T.**, and Y.-T. Lai. Explicit solution of DMZ equation in nonlinear filtering via solution of ODEs; *T-AC Mar 03* 505-508
- Yean-Ren Hwang**, see Min-Shin Chen, *T-AC Jan 03* 106-110
- Yean-Ren Hwang**, Min-Shin Chen, and Tzuyin Wu. Division controllers for homogeneous dyadic bilinear systems; *T-AC Apr 03* 701-705
- Ye Heng-Qing**, see Heng-Qing Ye, *T-AC Jul 03* 1238-1242
- Ye Xudong**, see Xudong Ye, *T-AC Jan 03* 169-173
- Ye Xudong**, see Xudong Ye, *T-AC Feb 03* 276-281
- Yin, G.**, see Han-Fu Chen, *T-AC Sep 03* 1545-1556
- Yin, G.G.**, see Le Wang, Y., *T-AC Nov 03* 1892-1907
- Yin, G.G.**, see Le Yi Wang, *T-AC Nov 03* 1892-1907
- Yingdong Lu**, and D.D. Yao. Optimal control of a fluid network with side constraints; *T-AC Oct 03* 1865-1869
- Ying He**, M.C. Fu, and S.I. Marcus. Convergence of simultaneous perturbation stochastic approximation for nondifferentiable optimization; *T-AC Aug 03* 1459-1463
- Yingmin Jia**, see Yuanqing Xia, *T-AC Jun 03* 1086-1091
- Yingmin Jia** Alternative proofs for improved LMI representations for the analysis and the design of continuous-time systems with polytopic type uncertainty: a predictive approach; *T-AC Aug 03* 1413-1416
- Ying Tan**, see Jian-Xin Xu, *T-AC Sep 03* 1672-1674
- Yinping Zhang**, see Jitao Sun, *T-AC May 2003* 829-831
- Yishao Zhou**, see Weiguo Gao, *T-AC Nov 03* 2051-2055
- Yi Wang Le**, see Le Yi Wang, *T-AC Nov 03* 1892-1907
- Yongsoo Eun**, P.T. Kabamba, and S.M. Meerkov. Tracking of random references: random sensitivity function and tracking quality indicators; *T-AC Sep 03* 1666-1671
- Yoo, T.-S.**, see Rohloff, K., *T-AC Nov 03* 1995-1998
- Yoo Tae-Sic**, see Rohloff, K., *T-AC Nov 03* 1995-1999
- You Ge**, see Yuzhen Wang, *T-AC Aug 03* 1428-1433
- Youngjin Choi**, Kwangjin Yang, Wan Kyun Chung, Hong Rok Kim, and Il Hong Suh. On the robustness and performance of disturbance observers for second-order systems; *T-AC Feb 03* 315-320
- Youping Zhang**, B. Fidan, and P.A. Ioannou. Backstepping control of linear time-varying systems with known and unknown parameters; *T-AC Nov 03* 1908-1925
- Youxian Sun**, see Huaping Dai, *T-AC Jul 03* 1227-1230
- Yuanqing Xia**, and Yingmin Jia. Robust sliding-mode control for uncertain time-delay systems: an LMI approach; *T-AC Jun 03* 1086-1091
- Yuan Rong**, see Rong Yuan, *T-AC Feb 03* 344-348
- Yu-Chi Ho**, Qian-Chuan Zhao, and D.L. Pepyne. The no free lunch theorems: complexity and security; *T-AC May 2003* 783-793
- Yue Hong**, see Hong Yue, *T-AC Jan 03* 118-122
- Yufang Jin**, see Zhihua Qu, *T-AC Feb 03* 336-343
- Yugeng Xi**, see Zhijun Chao, *T-AC Mar 03* 465-468
- Yu-Jeng Kuo**, see Min-Shin Chen, *T-AC Jan 03* 106-110
- Yuli Fu**, and Xiaoxin Liao. BIBO stabilization of stochastic delay systems with uncertainty; *T-AC Jan 03* 133-138
- Yungang Liu**, Zigang Pan, and Songjiao Shi. Output feedback control design for strict-feedback stochastic nonlinear systems under a risk-sensitive cost; *T-AC Mar 03* 509-513
- Yun-Hui Liu**, see Bugong Xu, *T-AC Apr 03* 697-701
- Yu Runyi**, see Runyi Yu, *T-AC Oct 03* 1804-1809

Yusheng Liu, and Xing-Yuan Li. Robust adaptive control of nonlinear systems represented by input-output models; *T-AC Jun 03* 1041-1045
Yusun Fu, Zuohua Tian, and Songjiao Shi. State feedback stabilization for a class of stochastic time-delay nonlinear systems; *T-AC Feb 03* 282-286
Yu Xinghuo, see Han, Q.L., *T-AC Sep 03* 1629-1633
Yu Xinghuo, see Xinghuo Yu, *T-AC Sep 03* 1641-1646
Yuz, J.I., see Goodwin, G.C., *T-AC Aug 03* 1312-1319
Yuzhen Wang, Daizhan Cheng, Chunwen Li, and You Ge. Dissipative Hamiltonian realization and energy-based L_2 -disturbance attenuation control of multimachine power systems; *T-AC Aug 03* 1428-1433

Z

Zaccarian, L., see Grimm, G., *T-AC Sep 03* 1509-1525
Zad, S.H., R.H. Kwong, and W.M. Wonham. Fault diagnosis in discrete-event systems: framework and model reduction; *T-AC Jul 03* 1199-1212
Zairong Xi, Gang Feng, Z.P. Jiang, and Daizhan Cheng. A switching algorithm for global exponential stabilization of uncertain chained systems; *T-AC Oct 03* 1793-1798
Zampieri, S., see Fagnani, F., *T-AC Sep 03* 1569-1584
Zang Chuanzhi, see Guangwei Li, *T-AC May 2003* 908
Zaremba, M.B., see Tayebi, A., *T-AC Jan 03* 101-106
Zecevic, A.I., and D.D. Siljak. Stabilization of nonlinear systems with moving equilibria; *T-AC Jun 03* 1036-1040
Zeheb, E., see Dolgin, Y., *T-AC Sep 03* 1610-1612
Zeheb, E. Correction to "Necessary and sufficient conditions for root clustering of a polytope of polynomials in a simply connected domain" [Sep 89 986-990]; *T-AC Sep 03* 1674
Zeng, B., see Cao, X-R., *T-AC Aug 03* 1472-1474
Zeng Bing, see Xi-Ren Cao, *T-AC Sep 03* 1676-1678
Zevin, A., and M. Pinsky. Exponential stability and solution bounds for systems with bounded nonlinearities; *T-AC Oct 03* 1799-1804
Zhang, H.P., see Gugercin, S., *T-AC Jun 03* 1109-1115
Zhang, J.-F., see Le Wang, Y., *T-AC Nov 03* 1892-1907
Zhang, Y., B. Fidan, and P.A. Ioannou. Backstepping control of linear time-varying systems with known and unknown parameters; *T-AC Nov 03* 1908-1925
Zhang Cishen, see Schmid, R., *T-AC Aug 03* 1385-1388
Zhang Ji-Feng, see Le Yi Wang, *T-AC Nov 03* 1892-1907
Zhang Jun, see Lygeros, J., *T-AC Jan 03* 2-17
Zhang Mingjun, see Mingjun Zhang, *T-AC Oct 03* 1777-1782
Zhang Qiang, see Qiang Zhang, *T-AC May 2003* 794-797
Zhang Yinping, see Jitao Sun, *T-AC May 2003* 829-831
Zhang Youping, see Youping Zhang, *T-AC Nov 03* 1908-1925
Zhao, L., see Gao, H., *T-AC Nov 03* 2073-2074
Zhao Lu, see Huijun Gao, *T-AC Nov 03* 2073-2074
Zhao Qian-Chuan, see Yu-Chi Ho, *T-AC May 2003* 783-793
Zhendong Sun, and S.S. Ge. Nonregular feedback linearization: a nonsmooth approach; *T-AC Oct 03* 1772-1776
Zhengtao Ding Universal disturbance rejection for nonlinear systems in output feedback form; *T-AC Jul 03* 1222-1226
Zhengtao Ding Adaptive stabilization of a class of nonlinear systems with unstable internal dynamics; *T-AC Oct 03* 1788-1792
Zhiguang Shan, see Chuang Lin, *T-AC Jul 03* 1235-1238
Zhihua Qu, and Yufang Jin. Robust control of nonlinear systems in the presence of unknown exogenous dynamics; *T-AC Feb 03* 336-343
Zhihua Qu Adaptive and robust controls of uncertain systems with nonlinear parameterization; *T-AC Oct 03* 1817-1824
Zhijun Chao, and Yugeng Xi. Necessary conditions for control consistency in hierarchical control of discrete-event systems; *T-AC Mar 03* 465-468
Zhi-Wei Gao, and Fei-Yue Wang. New results on doubly coprime fractional representations of generalized dynamical systems; *T-AC Feb 03* 299-303
Zhong, Q.-C., see Mirkin, L., *T-AC Nov 03* 1999-2003
Zhong Qing-Chang, see Qing-Chang Zhong, *T-AC Jan 03* 153-159
Zhong Qing-Chang, see Qing-Chang Zhong, *T-AC Jun 03* 1097-1103
Zhong Qing-Chang, see Mirkin, L., *T-AC Nov 03* 1999-2003
Zhou, K., see Campos-Delgado, D.U., *T-AC May 2003* 832-839
Zhou, Y., see Gao, W., *T-AC Nov 03* 2051-2054
Zhou Yishao, see Weiguang Gao, *T-AC Nov 03* 2051-2055
Zhujun Jing, see Rong Yuan, *T-AC Feb 03* 344-348
Zidong Wang, D.W.C. Ho, and Xiaohui Liu. Variance-constrained filtering for uncertain stochastic systems with missing measurements; *T-AC Jul 03* 1254-1258
Zigang Pan, see Yungang Liu, *T-AC Mar 03* 509-513

Zongli Lin, see Tingshu Hu, *T-AC Mar 03* 440-450
Zongli Lin, see Tingshu Hu, *T-AC Jul 03* 1249-1253
Zou, Y., see Xu, S., *T-AC Dec 03* 2217-2222
Zuohua Tian, see Yusun Fu, *T-AC Feb 03* 282-286

SUBJECT INDEX

A

Absolute stability
 Stability of sysys. with several monotone nonlin.. *Barabanov, N.E.*, *T-AC Apr 03* 665-670
Absorbing media
 ?spl infin-/bounded robustness for nonlinear systems: Analysis and synthesis. *Huang, S.*, +, *T-AC Nov 03* 1875-1891
Access protocols
 stable, scalable, fair congestion control and AQM schemes that achieve high utilization in the Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028
AC motors; cf. Induction motors
Active vision
 control-oriented ident. and model (In) validation of LPV sysys., LMI approach. *Sznaier, M.*, +, *T-AC Sep 03* 1619-1624
Actuators
 amplit./rate saturation, local stabilization of lin. sysys.. *Gomes da Silva, J.M., Jr.*, +, *T-AC May 2003* 842-847
 book reviews; Actuator Saturation Control (Kapila, V. and Grigoriadis, K.M.; 2002). *Glattfelder, A.H.*, *T-AC Apr 03* 710-712
 Control Systems with Actuator Saturation: Analysis and Design. *Liu, D.*, *T-AC Jun 03* 1116-1117
 finite gain l_p stabilization of discrete-time linear systems subject to actuator saturation; the case of $p = 1$. *Chitour, Y.*, +, *T-AC Dec 03* 2196-2198
 input-saturation lin. sysys., composite nonlin. feedback control. *Chen, B.M.*, +, *T-AC Mar 03* 427-439
 Stability anal. for nonlin. feedback control sysys. with lin. actuators. *Jian'an Fang*, +, *T-AC Apr 03* 649-654
Adaptive control
 Adaptive control of discrete time sysys. with concave/convex parametrizations. *Loh, A.P.*, +, *T-AC Jun 03* 1069-1072
 Adaptive control with nonconvex parameterization. *Tyukin, I.Yu.*, +, *T-AC Apr 03* 554-567
 adaptive neural network control of nonlinear systems with unknown time delays. *Ge, S.S.*, +, *T-AC Nov 03* 1-NEED
 Adaptive suboptimal tracking for first-order plant with Lipschitz uncertainty. *Sokolov, V.F.*, *T-AC Apr 03* 607-612
 approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610
 Author's reply [to comments on "Exact output tracking in decentralized adaptive control"]. *Narendra, K.S.*, *T-AC Feb 03* 350-351
 backstepping control of linear time-varying systems with known and unknown parameters. *Zhang, Y.*, +, *T-AC Nov 03* 1908-1925
 cascade sysys., nonlin. parameterization via partial-state feedback, nonsmooth adaptive stabil.. *Wei Lin*, +, *T-AC Oct 03* 1809-1816
 class of nonlin. sysys., unstable internal dynamics, adaptive stabil.. *Zhengtao Ding*, *T-AC Oct 03* 1788-1792
 Comments on "Exact output tracking in decentralized adaptive control". *Mirkin, B.M.*, *T-AC Feb 03* 348-350
 Decentralized adaptive output regulation for a class of large-scale nonlinear systems. *Xudong Ye*, +, *T-AC Feb 03* 276-281
 Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay sysys.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217
 exact model-matching problem for lin. time-varying sysys., alg. approach. *Marinescu, B.*, +, *T-AC Jan 03* 166-169
 global adaptive control of nonlin. parametrized sysys.. *Xudong Ye*, *T-AC Jan 03* 169-173
 helicopter const. attitude maint., robust nonlin. motion control. *Isidori, A.*, +, *T-AC Mar 03* 413-426
 Immersion and invariance, new tool for stabilization and adaptive control of nonlin. sysys.. *Astolfi, A.*, +, *T-AC Apr 03* 590-606
 inherently nonlin. sysys., nonlin. parameterization, adaptive output tracking. *Wei Lin*, +, *T-AC Oct 03* 1737-1749

- large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810
- lin. time-varying systs., known/unknown params., backstepping control. *Youping Zhang*, +, *T-AC Nov 03* 1908-1925
- LTI systs. subj., unanticipated extreme perturbations, self-tuning 3-term switching controllers, control. *Chang, M.H.*, +, *T-AC Nov 03* 1975-1985
- MIMO nonlin. syst. robust adaptive control with guaranteed error bounds. *Haojian Xu*, +, *T-AC May 2003* 728-742
- min.-phase syst. adaptive control, gain adaptation. *Ilchmann, A.*, +, *T-AC May 2003* 895-899
- nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*, +, *T-AC Nov 03* 2004-2010
- Note on global output regulation of nonlin. systs. in output feedback form. *Qi Gong*, +, *T-AC Jun 03* 1049-1054
- output regulation for linear systems via adaptive internal model. *Marino, R.*, +, *T-AC Dec 03* 2199-2202
- Robust adaptive control of nonlin. systs. represented by input-output models. *Yusheng Liu*, +, *T-AC Jun 03* 1041-1045
- SISO lin. syst. param. estimation, sufficient conditions. *Jeng Tze Huang*, *T-AC May 2003* 878-880
- time-varying uncertain nonlin. systs., unknown control coeffs., robust adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469
- uncertain systs., nonlin. parameterization, adaptive and robust controls. *Zhihua Qu*, *T-AC Oct 03* 1817-1824
- Universal disturbance rejection for nonlin. systs. in output feedback form. *Zhengtao Ding*, *T-AC Jul 03* 1222-1226
- Adaptive estimation**
approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610
Magnitude/PLL approach to param. estim. of periodic sigs.. *Biqing Wu*, +, *T-AC Apr 03* 612-618
output regulation for linear systems via adaptive internal model. *Marino, R.*, +, *T-AC Dec 03* 2199-2202
- Adaptive filters**
sign algms. for adaptive filtering, asymptotic props.. *Han-Fu Chen*, +, *T-AC Sep 03* 1545-1556
- Adaptive systems**
Simplified exponentially convergent rotor resistance estimation for induction motors. *Bartolini, G.*, +, *T-AC Feb 03* 325-330
- Adaptive systems; cf.** Adaptive filters
- Aerospace control; cf.** Aircraft control; Attitude control
- Aircraft**
coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2014
- Aircraft; cf.** Aircraft control; Helicopters
- Aircraft control**
helicopter const. attitude maint., robust nonlin. motion control. *Isidori, A.*, +, *T-AC Mar 03* 413-426
- Algebra**
Algebraic model for perform. eval. of timed event multigraphs. *Huaping Dai*, +, *T-AC Jul 03* 1227-1230
- Algebra; cf.** Banach spaces; Lie algebras; Linear algebra; Polynomials
- Algebraic specification**
algebraic condition for controllability and observability of linear time-varying systems. *Leiva, H.*, +, *T-AC Dec 03* 2229-2232
direct transformation of nonlinear systems into state affine MISO form for observer design. *Souleiman, I.*, +, *T-AC Dec 03* 2191-2196
- Algorithms**
syst. ident., binary sens.. *Le Yi Wang*, +, *T-AC Nov 03* 1892-1907
- Algorithm theory; cf.** Computational complexity
- Analog computers; cf.** Differential analyzers
- Approximation methods**
hybrid syst. verification of polyhedral invariant hybrid automata. *Chutinan, A.*, +, *T-AC Jan 03* 64-75
iter. learning control, fixed point theorem-based, for LTV syst.. *Jian-Xin Xu*, +, *T-AC Mar 03* 487-492
large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810
simultaneous perturb. stoch. approx. for nondifferentiable optim., convergence. *Ying He*, +, *T-AC Aug 03* 1459-1463
- Approximation theory**
book review; Linear Estimation (Kailath, T., et al.; 2000). *Mitter, S.K.*, *T-AC Jan 03* 177-180
- design of robust controllers for arbitrary uncertainty structures. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2064
- ellipsoidal approximation of the stability domain of a polynomial. *Henrion, D.*, +, *T-AC Dec 03* 2255-2259
- finite-dimensional observers for delay systems. *Fiagbedzi, Y.A.*, +, *T-AC Nov 03* 1986-1989
- observability of linear stochastic uncertain systems. *Ugrinovskii, V.A.*, *T-AC Dec 03* 2264-2269
- practical two-dimensional Thiele-type matrix Pade approximation. *Gu, C.*, *T-AC Dec 03* 2259-2263
- Approximation theory; cf.** Mean square error methods
- Artificial intelligence; cf.** Cooperative systems; Uncertainty handling
- Asymptotic stability**
Asymptotic stabilization via output feedback for lower triangular systs. with output depend. incremental rate. *Praly, L.*, *T-AC Jun 03* 1103-1108
cascade syst. partial-state feedback stabilization, small gain theorem. *Wei Lin*, +, *T-AC Mar 03* 497-499
chained systs. via hybrid control, robust stabil.. *Prieur, C.*, +, *T-AC Oct 03* 1768-1772
constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A.*, +, *T-AC May 2003* 810-815
Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V.*, +, *T-AC Feb 03* 246-258
converging-input converging-state property, remark. *Sontag, E.D.*, *T-AC Feb 03* 313-314
coupled delay differential and continuous time difference eqns., stabil.. *Pepe, P.*, +, *T-AC Aug 03* 1422-1427
coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2015
Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay systs.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217
Delay-depend./delay-independent stabil. of lin. systs. with multiple time-varying delays. *Bugong Xu*, +, *T-AC Apr 03* 697-701
delayed neural net global asymptotic stabil.. *Qiang Zhang*, +, *T-AC May 2003* 794-797
delay systs., uncertain, param.-depend. stabil./stabilization. *Fridman, E.*, +, *T-AC May 2003* 861-866
discrete-time systs., quantized input and state meas., stabil.. *Richter, H.*, +, *T-AC Aug 03* 1453-1458
dissipative Hamiltonian realization and energy-based L_2 -disturbance atten. control of multimachine power systs.. *Yuzhen Wang*, +, *T-AC Aug 03* 1428-1433
Division controllers for homog. dyadic bilinear systs.. *Yean-Ren Hwang*, +, *T-AC Apr 03* 701-705
dyadic bilinear systs., exponentially stabilizing division controllers. *Min-Shin Chen*, +, *T-AC Jan 03* 106-110
Example of GAS syst. which can be destabilized by integrable perturb.. *Sontag, E.D.*, +, *T-AC Jun 03* 1046-1049
Finitetime behavior of inner systs.. *Ludlage, J.H.A.*, +, *T-AC Jul 03* 1134-1149
global asymptotic stabilization for chains of integrators with delay in input. *Mazenc, F.*, +, *T-AC Jan 03* 57-63
global exponential stabil. of uncertain chained systs., switching algm.. *Zairong Xi*, +, *T-AC Oct 03* 1793-1798
Global stabil. of congestion controllers for Internet. *Deb, S.*, +, *T-AC Jun 03* 1055-1060
Immersion and invariance, new tool for stabilization and adaptive control of nonlin. systs.. *Astolfi, A.*, +, *T-AC Apr 03* 590-606
impulsive control systs., conditions for asymptotic stabil.. *Jitao Sun*, +, *T-AC May 2003* 829-831
input-to-state stabil., systs., 2 time scales, unified framework. *Teel, A.R.*, +, *T-AC Sep 03* 1526-1544
large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810
lin. systs., limited inform., stabil.. *Liberzon, D.*, *T-AC Feb 03* 304-307
lin. time-varying systs., known/unknown params., backstepping control. *Youping Zhang*, +, *T-AC Nov 03* 1908-1925
Necessary conditions for almost global stabil.. *Monzon, P.*, *T-AC Apr 03* 631-634
nonautonomous switched systs., extended invariance principle. *Orlov, Y.*, *T-AC Aug 03* 1448-1452
online exact differentiation and notion of asymptotic algebraic observers. *Ibrir, S.*, *T-AC Nov 03* 2055-2060

- Problem of state estim. via asynchronous commun. channels with irregular trans. times. *Matveev, A.S.*, +, *T-AC Apr 03* 670-676
- Quadratic charact. and use of output stabilizable subspaces. *Castelan, E.B.*, +, *T-AC Apr 03* 654-660
- Robust control of nonlinear systems in the presence of unknown exogenous dynamics. *Zhuhua Qu*, +, *T-AC Feb 03* 336-343
- Robustness of global asymptotic stabil. in indirect field-oriented control of IM. *Reginato, R.*, +, *T-AC Jul 03* 1218-1222
- scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F.*, +, *T-AC Sep 03* 1569-1584
- sign algms. for adaptive filtering, asymptotic props.. *Han-Fu Chen*, +, *T-AC Sep 03* 1545-1556
- SISO lin. syst. param. convergence, sufficient conditions. *Jeng Tze Huang*, *T-AC May 2003* 878-880
- Stability anal. for nonlin. feedback control systs. with lin. actuators. *Jian'an Fang*, +, *T-AC Apr 03* 649-654
- State feedback stabilization for a class of stochastic time-delay nonlinear systems. *Yusun Fu*, +, *T-AC Feb 03* 282-286
- structurally stable regulation, stabil. loss. *Maithripala, D.H.S.*, +, *T-AC Mar 03* 483-486
- systs., bounded nonlinearities, exponential stabil. and soln. bounds. *Zevin, A.*, +, *T-AC Oct 03* 1799-1804
- Uniform asymptotic stability of hybrid dynamical systems with delay. *Rong Yuan*, +, *T-AC Feb 03* 344-348
- Asynchronous machines; cf.** Induction motors
- Attitude control**
- helicopter const. attitude maint., robust nonlin. motion control. *Isidori, A.*, +, *T-AC Mar 03* 413-426
- Rotational motion control of spacecraft. *Wisniewski, R.*, +, *T-AC Apr 03* 643-646
- Automata**
- deciding coobservability, PSP ACE-complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1999
- dyn. props. of hybrid automata. *Lygeros, J.*, +, *T-AC Jan 03* 2-17
- hybrid syst. verification of polyhedral invariant hybrid automata. *Chutinan, A.*, +, *T-AC Jan 03* 64-75
- Automata theory; cf.** Finite automata; Sequential machines
- Automatic control**
- 2DOF controller parametrization for systems with a single I/O delay. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
- backstepping control of linear time-varying systems with known and unknown parameters. *Zhang, Y.*, +, *T-AC Nov 03* 1908-1925
- direct transformation of nonlinear systems into state affine MISO form for observer design. *Souleiman, I.*, +, *T-AC Dec 03* 2191-2196
- invariant subspaces for LPV systems and their applications. *Balas, G.*, +, *T-AC Nov 03* 2065-2068
- optimal closed-loop control of timed event graphs in dioids. *Maia, C.A.*, +, *T-AC Dec 03* 2284-2287
- range identification for perspective vision systems. *Dixon, W.E.*, +, *T-AC Dec 03* 2232-2238
- stable prediction for unstable independent models. *Rossiter, J.A.*, *T-AC Nov 03* 2029-2035
- well-posedness analysis of switch-driven piecewise affine systems. *Imura, J.-I.*, *T-AC Nov 03* 1926-1935
- Automation**
- correction to "On the numerical computation in systems and control" (Nov 02 1786-1799). *Chu, D.*, +, *T-AC Jan 03* 174-176
- Automation; cf.** Power system control
- B**
- Banach spaces**
- iter. learning control, fixed point theorem-based, for LTV syst.. *Jian-Xin Xu*, +, *T-AC Mar 03* 487-492
- Band-stop filters; cf.** Notch filters
- Bang-bang control**
- Maximizing convergence rate for lin. systs. with input saturation. *Tingshu Hu*, +, *T-AC Jul 03* 1249-1253
- Bifurcation**
- controllability and local accessibility, normal form approach. *Wei Kang*, +, *T-AC Oct 03* 1724-1736
- differential-algebraic systs., double SIB points. *Riaza, R.*, *T-AC Sep 03* 1625-1629
- Hopf bifurcations in sing. perturbed systs.. *Yang, L.*, +, *T-AC Apr 03* 660-664
- Bilinear systems**
- controllability for bilinear multilevel quantum systs., notions. *Albertini, F.*, +, *T-AC Aug 03* 1399-1403
- dissipative bilinear distributed syst. output stabilization. *Bounit, H.*, +, *T-AC Mar 03* 479-483
- Division controllers for homog. dyadic bilinear systs.. *Yean-Ren Hwang*, +, *T-AC Apr 03* 701-705
- dyadic bilinear systs., exponentially stabilizing division controllers. *Min-Shin Chen*, +, *T-AC Jan 03* 106-110
- SISO bilinear systs., constrained control. *Bacic, M.*, +, *T-AC Aug 03* 1443-1447
- Binary codes**
- system identification using binary sensors. *Le Wang, Y.*, +, *T-AC Nov 03* 1892-1907
- Biological cells**
- monotone control systs.. *Angeli, D.*, +, *T-AC Oct 03* 1684-1698
- Biological control systems**
- nonlin. systs., pattern gener. and control. *Brockett, R.W.*, *T-AC Oct 03* 1699-1711
- Biological system modeling**
- Identifiability of nonlinear systems with application to HIV/AIDS models. *Xia, X.*, +, *T-AC Feb 03* 330-336
- Book reviews**
- Actuator Saturation Control (Kapila, V. and Grigoriadis, K.M.; 2002). *Glattfelder, A.H.*, *T-AC Apr 03* 710-712
- Control Systems with Actuator Saturation: Analysis and Design. *Liu, D.*, *T-AC Jun 03* 1116-1117
- Control Theory for Linear Systems (Trentelman, H.L. et al.; 2001). *Petersen, I.R.*, *T-AC Mar 03* 526
- Impulsive Control in Continuous and Discrete-Continuous Systems (Miller, B.M. and Ya, E.). *Xu, X.*, *T-AC Dec 03* 2288-2289
- Software-Enabled Control: Information Technology for Dynamical Systems (Samad, T. and Balas, G.; 2003). *Passino, K.M.*, *T-AC Nov 03* 2075-2076
- Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Cao, X.-R.*, +, *T-AC Aug 03* 1472-1474
- Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Xi-Ren Cao*, +, *T-AC Sep 03* 1676-1678
- Boundary value problems**
- Exact computation of traces and H^2 norms for class of infinite-dimens. problems. *Bamieh, B.*, +, *T-AC Apr 03* 646-649
- Existence and uniqueness of open-loop Nash equilibria in linear-quadratic discrete time games. *Jank, G.*, +, *T-AC Feb 03* 267-271
- C**
- Calculus; cf.** Differentiation
- Cascade control**
- Division controllers for homog. dyadic bilinear systs.. *Yean-Ren Hwang*, +, *T-AC Apr 03* 701-705
- Cascade systems**
- global high-gain based observer and backstepping controller for generalized output-feedback canonical form. *Krishnamurthy, P.*, +, *T-AC Dec 03* 2277-2284
- nonlin. parameterization via partial-state feedback, nonsmooth adaptive stabil.. *Wei Lin*, +, *T-AC Oct 03* 1809-1816
- partial-state feedback stabilization, small gain theorem. *Wei Lin*, +, *T-AC Mar 03* 497-499
- Chaos**
- scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F.*, +, *T-AC Sep 03* 1569-1584
- Chebyshev approximation**
- discrete-time syst. stabilization by 1st.-order controllers. *Tantaris, R.N.*, +, *T-AC May 2003* 858-860
- Closed loop systems**
- cascade syst. partial-state feedback stabilization, small gain theorem. *Wei Lin*, +, *T-AC Mar 03* 497-499
- digital controller, finite-precision, closed-loop stabil. measure. *Jun Wu*, +, *T-AC May 2003* 816-822
- discrete-time systs., quantized input and state meas., stabil.. *Richter, H.*, +, *T-AC Aug 03* 1453-1458
- dissipative Hamiltonian realization and energy-based L_2 -disturbance atten. control of multimachine power systs.. *Yuzhen Wang*, +, *T-AC Aug 03* 1428-1433

- finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842
- global adaptive control of nonlin. parametrized systs.. *Xudong Ye*, *T-AC Jan 03* 169-173
- input-saturation lin. systs., composite nonlin. feedback control. *Chen, B.M.*, +, *T-AC Mar 03* 427-439
- large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810
- lin. sing. systs. subj., decentralized output feedback, impulsive modes. *Runyi Yu*, +, *T-AC Oct 03* 1804-1809
- lin. state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M.*, +, *T-AC Sep 03* 1613-1619
- LTI syst. MRAC. *Miller, D.E.*, *T-AC May 2003* 743-757
- LTI syst. non-overshooting step response controller synthesis. *Darbha, S.*, +, *T-AC May 2003* 797-800
- MIMO nonlin. syst. robust adaptive control with guaranteed error bounds. *Haojian Xu*, +, *T-AC May 2003* 728-742
- nonlin. repetitive control. *Lucibello, P.*, *T-AC Aug 03* 1470-1471
- nonlin. syst. feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S.*, +, *T-AC Mar 03* 513-517
- optimal closed-loop control of timed event graphs in dioids. *Maia, C.A.*, +, *T-AC Dec 03* 2284-2287
- probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599
- Reduced supervisors for timed discrete-event systs.. *Gohari, P.*, +, *T-AC Jul 03* 1187-1198
- scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F.*, +, *T-AC Sep 03* 1569-1584
- Semiglobal stabilization and output regulation of sing. lin. systs. with input saturation. *Weiyao Lan*, +, *T-AC Jul 03* 1274-1280
- SISO bilinear systs., constrained control. *Bacic, M.*, +, *T-AC Aug 03* 1443-1447
- Stability anal. for nonlin. feedback control systs. with lin. actuators. *Jian'an Fang*, +, *T-AC Apr 03* 649-654
- Standard H_∞ control of procs. with, single delay. *Qing-Chang Zhong*, *T-AC Jun 03* 1097-1103
- State feedback stabilization for a class of stochastic time-delay nonlinear systems. *Yusun Fu*, +, *T-AC Feb 03* 282-286
- Static sliding-motion phenom. in dyn. systs.. *Junger, I.B.*, +, *T-AC Apr 03* 680-686
- stochastic nonlin. syst. output feedback with risk-sensitive cost. *Yungang Liu*, +, *T-AC Mar 03* 509-513
- structurally stable regulation, stabil. loss. *Maithripala, D.H.S.*, +, *T-AC Mar 03* 483-486
- time-varying uncertain nonlin. systs., unknown control coeffs., robust adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469
- tracking errors for dyn. stochastic systs.. *Hong Yue*, +, *T-AC Jan 03* 118-122
- Codes; cf.** Binary codes
- Combinatorial mathematics; cf.** Graph theory; Traveling salesman problems
- Communication channels**
joint optim. of commun. rates and lin. systs.. *Lin Xiao*, +, *T-AC Jan 03* 148-153
- Communication system control**
wireless network power control, S-modular games. *Altman, E.*, +, *T-AC May 2003* 839-842
- Communication system operations and management**
asynchronous discrete-event syst. fault diagnosis, net unfolding. *Benveniste, A.*, +, *T-AC May 2003* 714-727
- two-class stochastic fluid models for commun. network, perturb. anal.. *Cassandras, C.G.*, +, *T-AC May 2003* 770-782
- Communication system routing**
distrib. and concurrent systs., Markov nets, probabilistic models. *Benveniste, A.*, +, *T-AC Nov 03* 1936-1950
- dyn. Cesaro-Wardrop equilibration in networks. *Borkar, V.S.*, +, *T-AC Mar 03* 382-396
- routing, constrained traffic equilib.. *El Azouzi, R.*, +, *T-AC Sep 03* 1656-1660
- stable, scalable, fair congestion control and AQM schemes achieve high utilization, Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028
- Communication systems**
M-dimens. asynchronous swarms with, fixed commun. topol.. *Yang Liu*, +, *T-AC Jan 03* 76-95
- Communication system traffic**
networks, dyn. Cesaro-Wardrop equilibration. *Borkar, V.S.*, +, *T-AC Mar 03* 382-396
- two-class stochastic fluid models for commun. network, perturb. anal.. *Cassandras, C.G.*, +, *T-AC May 2003* 770-782
- Compensation**
fault-tolerant reconfigurable control, generalized internal model control. *Campos-Delgado, D.U.*, +, *T-AC May 2003* 832-839
- LTI syst. MRAC. *Miller, D.E.*, *T-AC May 2003* 743-757
- LTI syst. non-overshooting step response controller synthesis. *Darbha, S.*, +, *T-AC May 2003* 797-800
- systs., single I/O delay, 2DOF controller parametrization. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
- Complexity theory**
constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A.*, +, *T-AC May 2003* 810-815
- deciding coobservability, PSPACE-complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1999
- digital controller, finiteprecision, closed-loop stabil. measure. *Jun Wu*, +, *T-AC May 2003* 816-822
- discrete-event syst. hierarchical control, consistency conditions, complexity. *Zhijun Chao*, +, *T-AC Mar 03* 465-468
- discrete-event systs., partial obs., optimal sens. selection. *Shengbing Jiang*, +, *T-AC Mar 03* 369-381
- Fault diagnosis in discrete-event systs., framework and model reduction. *Zad, S.H.*, +, *T-AC Jul 03* 1199-1212
- Feedback can reduce the specification complexity of motor programs. *Egerstedt, M.B.*, +, *T-AC Feb 03* 213-223
- General interpolation in MPC and advantages. *Bacic, M.*, +, *T-AC Jun 03* 1092-1096
- LQ regulators, reduced explicit constrained, piecewise lin. feedback. *Johansen, T.A.*, *T-AC May 2003* 823-829
- no free lunch theorems, complexity, network security. *Yu-Chi Ho*, +, *T-AC May 2003* 783-793
- nonlin. observers for autonomous Lipschitz continuous systs.. *Kreisselmeier, G.*, +, *T-AC Mar 03* 451-464
- Reduced supervisors for timed discrete-event systs.. *Gohari, P.*, +, *T-AC Jul 03* 1187-1198
- syst. ident., binary sens.. *Le Yi Wang*, +, *T-AC Nov 03* 1892-1907
- Compressors**
Separation principle for non-UCO systs., jet engine stall and surge example. *Maggiore, M.*, +, *T-AC Jul 03* 1264-1269
- Computational complexity**
optimization approach to matrix-valued Nevanlinna-Pick interpolation with complexity constraint. *Blomqvist, A.*, +, *T-AC Dec 03* 2172-2190
- Computational geometry**
hybrid syst. verification of polyhedral invariant hybrid automata. *Chutinan, A.*, +, *T-AC Jan 03* 64-75
- Computer applications; cf.** Publishing
- Computerized control; cf.** Industrial control; Power system control
- Computer network management**
book reviews; Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Xi-Ren Cao*, +, *T-AC Sep 03* 1676-1678
- stable, scalable, fair congestion control and AQM schemes achieve high utilization, Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028
- Computer networks; cf.** Computer network management
- Computer software**
book review; Software-Enabled Control: Information Technology for Dynamical Systems (Samad, T. and Balas, G.; 2003). *Passino, K.M.*, *T-AC Nov 03* 2075-2076
- Computer software; cf.** Subroutines
- Computer vision; cf.** Active vision
- Concurrent engineering**
Markov nets, probabilistic models for distributed and concurrent systems. *Benveniste, A.*, +, *T-AC Nov 03* 1936-1950
- Conducting bodies**
ellipsoidal approximation of the stability domain of a polynomial. *Henrion, D.*, +, *T-AC Dec 03* 2255-2259
- Conductors (electric); cf.** Conducting bodies
- Constraint theory**
relatively optimal control and its linear implementation. *Blanchini, F.*, +, *T-AC Dec 03* 2151-2162

Continuous time systems

- Adaptive control with nonconvex parameterization. *Tyukin, I.Yu.*, +, *T-AC Apr 03* 554-567
- approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610
- book review; Impulsive Control in Continuous and Discrete-Continuous Systems (Miller, B.M. and Ya, E.). *Xu, X.*, *T-AC Dec 03* 2288-2289
- correction to "Necessary and sufficient conditions for root clustering of a polytope of polynomials in a simply connected domain". *Zeheb, E.*, *T-AC Sep 03* 1674
- Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X.*, +, *T-AC Feb 03* 236-245
- Frequency domain ident. of Hammerstein models. *Er-Wei Bai*, *T-AC Apr 03* 530-542
- H/sub8/ filtering for singular systems. *Xu, S.*, +, *T-AC Dec 03* 2217-2222
- improved LMI representations for anal. and design of continuous-time systs., polytopic type uncertainty, alternative proofs. *Yingmin Jia*, *T-AC Aug 03* 1413-1416
- LTI systs. subj., unanticipated extreme perturbations, self-tuning 3-term switching controllers, control. *Chang, M.H.*, +, *T-AC Nov 03* 1975-1985
- Suboptimal receding horizon control for continuous-time systs.. *Blanchini, F.*, +, *T-AC Jun 03* 1081-1086
- testing pos. realness of SISO systs., eigenvalue-based algms.. *Weiguo Gao*, +, *T-AC Nov 03* 2051-2055
- Uniform asymptotic stability of hybrid dynamical systems with delay. *Rong Yuan*, +, *T-AC Feb 03* 344-348
- Control engineering**
- book reviews; Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Xi-Ren Cao*, +, *T-AC Sep 03* 1676-1678
- correction to "On the numerical computation in systems and control" (Nov 02 1786-1799). *Chu, D.*, +, *T-AC Jan 03* 174-176
- Control equipment; cf. Actuators; Controllers**
- Control facilities**
- backstepping control of linear time-varying systems with known and unknown parameters. *Zhang, Y.*, +, *T-AC Nov 03* 1908-1925
- Controllability**
- algebraic condition for controllability and observability of linear time-varying systems. *Leiva, H.*, +, *T-AC Dec 03* 2229-2232
- Analysis and design of oscillatory control systs.. *Martinez, S.*, +, *T-AC Jul 03* 1164-1177
- Authors' reply, Comment on "A robust state observer scheme". *Da-Wei Gu*, +, *T-AC Jul 03* 1293-1294
- bilinear multilevel quantum systs., notions. *Albertini, F.*, +, *T-AC Aug 03* 1399-1403
- Constructive controllability algms. for motion planning and optim.. *Cerven, W.T.*, +, *T-AC Apr 03* 575-589
- controllability and local accessibility, normal form approach. *Wei Kang*, +, *T-AC Oct 03* 1724-1736
- Controllability of nonstandard sing. perturbed systs. with small state delay. *Glizer, V.Y.*, *T-AC Jul 03* 1280-1285
- Control Systems with Actuator Saturation: Analysis and Design. *Liu, D.*, *T-AC Jun 03* 1116-1117
- Division controllers for homog. dyadic bilinear systs.. *Yean-Ren Hwang*, +, *T-AC Apr 03* 701-705
- driftless systs., Lie groups, practical stabil.. *Morin, P.*, +, *T-AC Sep 03* 1496-1508
- Finite-time behavior of inner systs.. *Ludlage, J.H.A.*, +, *T-AC Jul 03* 1134-1149
- lin. sing. systs. subj., decentralized output feedback, impulsive modes. *Runyi Yu*, +, *T-AC Oct 03* 1804-1809
- LPV systs. and their appls., invariant subspaces. *Balas, G.*, +, *T-AC Nov 03* 2065-2069
- new directions on nonlinear control (special section). *T-AC Oct 03* 1681, 1684-1782
- new directions on nonlinear control (special section intro.). *Baillieul, J.*, +, *T-AC Oct 03* 1681-1682
- nonlin. controllability of homog. systs. lin. in control. *Melody, J.*, +, *T-AC Jan 03* 139-143
- Some perspectives on anal. and control of complementarity systs.. *Brogliato, B.*, *T-AC Jun 03* 918-935
- T-liveness enforcing supervisors, Petri nets, design. *Iordache, M.V.*, +, *T-AC Nov 03* 1962-1974

Controllers

- 2DOF controller parametrization for systems with a single I/O delay. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
- coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2014
- design of robust controllers for arbitrary uncertainty structures. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2064
- finite spectrum assignment of unstable time-delay systems with a safe implementation assignment of unstable time-delay systems with a safe implementation. *Mondie, S.*, +, *T-AC Dec 03* 2207-2212
- global high-gain based observer and backstepping controller for generalized output-feedback canonical form. *Krishnamurthy, P.*, +, *T-AC Dec 03* 2277-2284
- simultaneous pole placement of M discretetime plants using a M-periodic controller. *Das, S.K.*, +, *T-AC Nov 03* 2045-2050
- Controllers; cf. Servomechanisms**
- Control system analysis**
- book review; Software-Enabled Control: Information Technology for Dynamical Systems (Samad, T. and Balas, G.; 2003). *Passino, K.M.*, *T-AC Nov 03* 2075-2076
- Control systems**
- 2DOF controller parametrization for systems with a single I/O delay. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
- algebraic condition for controllability and observability of linear time-varying systems. *Leiva, H.*, +, *T-AC Dec 03* 2229-2232
- book review; Impulsive Control in Continuous and Discrete-Continuous Systems (Miller, B.M. and Ya, E.). *Xu, X.*, *T-AC Dec 03* 2288-2289
- book review; Software-Enabled Control: Information Technology for Dynamical Systems (Samad, T. and Balas, G.; 2003). *Passino, K.M.*, *T-AC Nov 03* 2075-2076
- book reviews; Actuator Saturation Control (Kapila, V. and Grigoriadis, K.M.; 2002). *Glattfelder, A.H.*, *T-AC Apr 03* 710-712
- book reviews; Control Theory for Linear Systems (Trentelman, H.L. et al.; 2001). *Petersen, I.R.*, *T-AC Mar 03* 526
- control of LTI systems subject to unanticipated extreme perturbations using self-tuning 3-term switching controllers. *Chang, M.*, +, *T-AC Nov 03* 1975-1985
- Control Systems with Actuator Saturation: Analysis and Design. *Liu, D.*, *T-AC Jun 03* 1116-1117
- coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2015
- global tracking control of a helicopter without velocity measurements. *Do, K.D.*, +, *T-AC Dec 03* 2212-2217
- invariant subspaces for LPV systems and their applications. *Balas, G.*, +, *T-AC Nov 03* 2065-2068
- lin. feedback systs., presence of plant uncertainty, perform. limitations. *Goodwin, G.C.*, +, *T-AC Aug 03* 1312-1319
- lin. time-varying systs., known/unknown params., backstepping control. *Youping Zhang*, +, *T-AC Nov 03* 1908-1925
- new developments and applications in performance limitation of feedback control (special section). *T-AC Aug 03* 1297, 1299-1398
- new developments and applications in performance limitation of feedback control (special section intro.). *Chen, J.*, +, *T-AC Aug 03* 1297
- new directions on nonlinear control (special section). *T-AC Oct 03* 1681, 1684-1782
- new directions on nonlinear control (special section intro.). *Baillieul, J.*, +, *T-AC Oct 03* 1681-1682
- nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*, +, *T-AC Nov 03* 2004-2010
- optimal closed-loop control of timed event graphs in dioids. *Maia, C.A.*, +, *T-AC Dec 03* 2284-2287
- output regulation for linear systems via adaptive internal model. *Marino, R.*, +, *T-AC Dec 03* 2199-2202
- switched lin. systs., RMS gains. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2045
- transfer function approach to quantum control part II, control concepts and applications. *Yanagisawa, M.*, +, *T-AC Dec 03* 2121-2132
- transient response control via characteristic ratio assignment. *Kim, Y.C.*, +, *T-AC Dec 03* 2238-2244
- Control systems; cf. Closed loop systems; Delay systems; Nonlinear control systems; Reduced order systems; Singularly perturbed systems**
- Control theory**
- book reviews; Actuator Saturation Control (Kapila, V. and Grigoriadis, K.M.; 2002). *Glattfelder, A.H.*, *T-AC Apr 03* 710-712

- book reviews; Control Theory for Linear Systems (Trentelman, H.L. et al.; 2001). *Petersen, I.R.*, *T-AC Mar 03* 526
- control of LTI systems subject to unanticipated extreme perturbations using self-tuning 3-term switching controllers. *Chang, M.*, +, *T-AC Nov 03* 1975-1985
- correction to "On the numerical computation in systems and control" (Nov 02 1786-1799). *Chu, D.*, +, *T-AC Jan 03* 174-176
- ?spl infin/-bounded robustness for nonlinear systems: Analysis and synthesis. *Huang, S.*, +, *T-AC Nov 03* 1875-1891
- transfer function approach to quantum control part I, dynamics of quantum feedback systems. *Yanagisawa, M.*, +, *T-AC Dec 03* 2107-2120
- transfer function approach to quantum control part II, control concepts and applications. *Yanagisawa, M.*, +, *T-AC Dec 03* 2121-2132
- Control theory; cf.** Adaptive control; Bang-bang control; Cascade control; Compensation; Controllability; Control system analysis; Infinite horizon; Observability; Optimal control; Periodic control; Predictive control; Proportional control; Three-term control
- Convergence; cf.** Convergence of numerical methods
- Convergence of numerical methods**
- Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X.*, +, *T-AC Feb 03* 236-245
- Dynamic gradient approaches to compute the closest unstable equilibrium point for stability region estimate and their computational limitations. *Jaewook Lee, T-AC Feb 03* 321-324
- simultaneous perturb. stoch. approx. for nondifferentiable optim., convergence. *Ying He*, +, *T-AC Aug 03* 1459-1463
- wireless network power control, S-modular games. *Altman, E.*, +, *T-AC May 2003* 839-842
- Convolution**
- intrinsic difficulties in stochastic control of unstable convolution operators on Z . *Makila, P.M.*, *T-AC Nov 03* 2015-2018
- stoch. control of unstable convolution operators, Z , intrinsic difficulties. *Makila, P.M.*, *T-AC Nov 03* 2015-2018
- Cooperative systems**
- ID asynchronous swarms, stabil. anal.. *Yang Liu*, +, *T-AC Oct 03* 1848-1854
- Coordination of groups of mobile autonomous agents using nearest neighbor rules. *Jadbabaie, A.*, +, *T-AC Jun 03* 988-1001
- Correlation**
- asynchronous discrete-event syst. fault diagnosis, net unfolding. *Benveniste, A.*, +, *T-AC May 2003* 714-727
- proportional rel., concurrent estim.. *Ishizaki, F.*, +, *T-AC Oct 03* 1861-1865
- Correlation methods**
- fluid queueing systems with strict priority. *Liu, Y.*, +, *T-AC Dec 03* 2079-2088
- Correlation theory**
- fluid queueing systems with strict priority. *Liu, Y.*, +, *T-AC Dec 03* 2079-2088
- Cost optimal control**
- guaranteed cost control for uncertain Markovian jump systems with mode-dependent time-delays. *Chen, W.-H.*, +, *T-AC Dec 03* 2270-2277
- robust servomechanism problem for discrete-time LTI systs., perform. limitations. *Jemaa, L.B.*, +, *T-AC Aug 03* 1299-1311
- stable lin. systs., input saturation, antiwindup. *Grimm, G.*, +, *T-AC Sep 03* 1509-1525
- Curve fitting**
- Frequency domain ident. of Hammerstein models. *Er-Wei Bai*, *T-AC Apr 03* 530-542
- D**
- Data security**
- no free lunch theorems, complexity, network security. *Yu-Chi Ho*, +, *T-AC May 2003* 783-793
- Decision-making**
- call blending, call centers, queueing model. *Bhulai, S.*, +, *T-AC Aug 03* 1434-1438
- deciding co-observability is PSPACE-complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1998
- Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X.*, +, *T-AC Feb 03* 236-245
- fault detect./isolation, game-theoretic approach to decision. *Darkhovski, B.*, +, *T-AC May 2003* 853-858
- Markov decision procs. with delays and asynchronous cost collection. *Katsikopoulos, K.V.*, +, *T-AC Apr 03* 568-574
- Multitime scale Markov decision procs.. *Hyeong Soo Chang*, +, *T-AC Jun 03* 976-987
- optimal Markovian target search, infinite-horizon case. *Singh, S.*, +, *T-AC Mar 03* 493-497
- Decoding**
- Set-valued state estim. via, limited capacity commun. channel. *Savkin, A.V.*, +, *T-AC Apr 03* 676-680
- Delay effects**
- BIBO stabilization of stochastic delay systs. with uncertainty. *Yuli Fu*, +, *T-AC Jan 03* 133-138
- Delay-depend./delay-independent stabil. of lin. systs. with multiple time-varying delays. *Bugong Xu*, +, *T-AC Apr 03* 697-701
- global asymptotic stabilization for chains of integrators with delay in input. *Mazenc, F.*, +, *T-AC Jan 03* 57-63
- H_∞ control of lin. time-delay systs., descriptor syst. approach. *Huijun Gao*, +, *T-AC Mar 03* 520-525
- Markov decision procs. with delays and asynchronous cost collection. *Katsikopoulos, K.V.*, +, *T-AC Apr 03* 568-574
- robust H_∞ filtering of lin. systs. with time-varying delay. *Fridman, E.*, +, *T-AC Jan 03* 159-165
- Robust sliding-mode control for uncertain time-delay systs., LMI approach. *Yuanqing Xia*, +, *T-AC Jun 03* 1086-1091
- stabil. and controller robustness of popular PID tuning rules. *Silva, G.J.*, +, *T-AC Sep 03* 1638-1641
- stabil. of lin. systs. with uncertain delay. *Kharitonov, V.L.*, +, *T-AC Jan 03* 127-132
- Standard H_∞ control of procs. with, single delay. *Qing-Chang Zhong*, *T-AC Jun 03* 1097-1103
- telecom. networks, dyn. Cesaro-Wardrop equilibration. *Borkar, V.S.*, +, *T-AC Mar 03* 382-396
- uncertain delay systs., param.-depend. stabil./stabilization. *Fridman, E.*, +, *T-AC May 2003* 861-866
- Delays**
- comments on "An LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays". *Gao, H.*, +, *T-AC Nov 03* 2073-2074
- finite spectrum assignment of unstable time-delay systems with a safe implementation. *Mondie, S.*, +, *T-AC Dec 03* 2207-2212
- guaranteed cost control for uncertain Markovian jump systems with mode-dependent time-delays. *Chen, W.-H.*, +, *T-AC Dec 03* 2270-2277
- Delay systems**
- adaptive neural network control of nonlinear systems with unknown time delays. *Ge, S.S.*, +, *T-AC Nov 03* 1-NEED
- Controllability of nonstandard sing. perturbed systs. with small state delay. *Glizer, V.Y.*, *T-AC Jul 03* 1280-1285
- Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay systs.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217
- delay n onlin. syst. state feedback stabilization, comment. *Guangwei Li*, +, *T-AC May 2003* 908
- Extraction of dead-time controllers and estimators from delay-free parametrizations. *Mirkin, L.*, *T-AC Apr 03* 543-553
- finite-dimensional observers for delay systems. *Fiagbedzi, Y.A.*, +, *T-AC Nov 03* 1986-1989
- lin. state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M.*, +, *T-AC Sep 03* 1613-1619
- nonlin. delay syst. stabilization, iter. procedure, comment. *Xinping Guan*, +, *T-AC May 2003* 907
- nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*, +, *T-AC Nov 03* 2004-2010
- robust stabil. bound of time-delay systs., norm-bounded uncertainty, improved estim.. *Han, Q.L.*, +, *T-AC Sep 03* 1629-1633
- State feedback stabilization for a class of stochastic time-delay nonlinear systems. *Yusun Fu*, +, *T-AC Feb 03* 282-286
- systs., single I/O delay, 2DOF controller parametrization. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
- uncertain Markovian jump delay syst. robust H_∞ filtering. *Shengyuan Xu*, +, *T-AC May 2003* 900-907
- Uniform asymptotic stability of hybrid dynamical systems with delay. *Rong Yuan*, +, *T-AC Feb 03* 344-348
- Design engineering**
- backstepping control of linear time-varying systems with known and unknown parameters. *Zhang, Y.*, +, *T-AC Nov 03* 1908-1925

- Control Systems with Actuator Saturation: Analysis and Design. *Liu, D., T-AC Jun 03 1116-1117*
- design of robust controllers for arbitrary uncertainty structures. *Lagoa, C.M., +, T-AC Nov 03 2061-2064*
- design of T-liveness enforcing supervisors in Petri nets. *Iordache, M.V., +, T-AC Nov 03 1962-1974*
- robust PI controller design satisfying sensitivity and uncertainty specifications. *Yaniv, O., +, T-AC Nov 03 2069-2072*
- ?spl infin/-bounded robustness for nonlinear systems: Analysis and synthesis. *Huang, S., +, T-AC Nov 03 1875-1891*
- Detectors**
- discrete-event systs., partial obs., optimal sens. selection. *Shengbing Jiang, +, T-AC Mar 03 369-381*
- sys. ident., binary sens.. *Le Yi Wang, +, T-AC Nov 03 1892-1907*
- Difference equations**
- book review; Impulsive Control in Continuous and Discrete-Continuous Systems (Miller, B.M. and Ya, E.). *Xu, X., T-AC Dec 03 2288-2289*
- coupled delay differential and continuous time difference eqns., stabil.. *Pepe, P., +, T-AC Aug 03 1422-1427*
- delay systs., finite-dimens. observers. *Fiagbedzi, Y.A., +, T-AC Nov 03 1986-1990*
- Existence and uniqueness of open-loop Nash equilibria in linear-quadratic discrete time games. *Jank, G., +, T-AC Feb 03 267-271*
- finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V., +, T-AC Oct 03 1836-1842*
- Nonlinear discrete-time observer design with lin. error dyn.. *MingQing Xiao, +, T-AC Apr 03 622-626*
- quadratic non lin. systs. set simul.. *Calafiore, G., T-AC May 2003 800-805*
- Stability of lin. discrete dyn. employing state saturation arith.. *Ooba, T., T-AC Apr 03 626-630*
- Differential analyzers**
- finite-dimensional observers for delay systems. *Fiagbedzi, Y.A., +, T-AC Nov 03 1986-1989*
- Differential equations**
- delayed neural net global asymptotic stabil.. *Qiang Zhang, +, T-AC May 2003 794-797*
- MIMO nonlin. syst. robust adaptive control with guaranteed error bounds. *Haojian Xu, +, T-AC May 2003 728-742*
- min.-phase syst. adaptive control, gain adaptation. *Ilchmann, A., +, T-AC May 2003 895-899*
- nonlin. filtering, DMZ eqn. explicit soln. via ODE. *Yau, S.S.-T., +, T-AC Mar 03 505-508*
- telecom. networks, dyn. Cesaro-Wardrop equilibration. *Borkar, V.S., +, T-AC Mar 03 382-396*
- transfer function approach to quantum control part I, dynamics of quantum feedback systems. *Yanagisawa, M., +, T-AC Dec 03 2107-2120*
- Differential equations; cf.** Difference equations; Nonlinear differential equations; Partial differential equations
- Differenti al games**
- LQ differential game, Nash alg. Riccati eqns., eigenvectors. *Engwerda, J.C., T-AC May 2003 847-852*
- Differential geometry**
- P-normal forms of nonlin. systs.. *Daizhan Cheng, +, T-AC Jul 03 1242-1248*
- Differentiation**
- online exact differentiation and notion of asymptotic algebraic observers. *Ibrir, S., T-AC Nov 03 2055-2060*
- Differentiation (math.)**
- asymptotic algebraic observers, online exact differentiation/notion. *Ibrir, S., T-AC Nov 03 2055-2060*
- Digital communication**
- Set-valued state estim. via, limited capacity commun. channel. *Savkin, A.V., +, T-AC Apr 03 676-680*
- Digital control**
- digital controller, finite-precision, closed-loop stabil. measure. *Jun Wu, +, T-AC May 2003 816-822*
- hybrid syst. verification of polyhedral invariant hybrid automata. *Chutinan, A., +, T-AC Jan 03 64-75*
- Intersample and finite wordlength effects in sampled-data problems. *Bamieh, B., T-AC Apr 03 639-643*
- New approach to digital PID controller design. *Keel, L.H., +, T-AC Apr 03 687-692*
- Digital systems; cf.** Digital communication
- Directed graphs; cf.** Petri nets
- Discrete event systems**
- asynchronous discrete-event syst. fault diagnosis, net unfolding. *Benveniste, A., +, T-AC May 2003 714-727*
- Controlled Markov chains with safety upper bound. *Arapostathis, A., +, T-AC Jul 03 1230-1234*
- deciding co-observability is PSPACE-complete. *Rohloff, K., +, T-AC Nov 03 1995-1998*
- deciding coobservability, PSPACE-complete. *Rohloff, K., +, T-AC Nov 03 1995-1999*
- distrib. and concurrent systs., Markov nets, probabilistic models. *Benveniste, A., +, T-AC Nov 03 1936-1950*
- Fault diagnosis in discrete-event systs., framework and model reduction. *Zad, S.H., +, T-AC Jul 03 1199-1212*
- feedback control logic for forbidden-state problems of marked graphs, real mfg. syst. appl.. *Ghaffari, A., +, T-AC Jan 03 18-29*
- global high-gain based observer and backstepping controller for generalized output-feedback canonical form. *Krishnamurthy, P., +, T-AC Dec 03 2277-2284*
- hierarchical control, consistency conditions, complexity. *Zhijun Chao, +, T-AC Mar 03 465-468*
- Markov nets, probabilistic models for distributed and concurrent systems. *Benveniste, A., +, T-AC Nov 03 1936-1950*
- M-dimens. asynchronous swarms with, fixed commun. topol.. *Yang Liu, +, T-AC Jan 03 76-95*
- Minimal commun. in distributed discrete-event syst.. *Rudie, K., +, T-AC Jun 03 957-975*
- partially obs. discrete-event systs., optimal sens. selection. *Shengbing Jiang, +, T-AC Mar 03 369-381*
- perturb. anal., semi-Markov decision proc., sensitivity anal.. *Xi-Ren Cao, T-AC May 2003 758-769*
- Reduced supervisors for timed discrete-event systs.. *Gohari, P., +, T-AC Jul 03 1187-1198*
- Synthesis of safe control policies in decentralized control of discrete-event systs.. *Rohloff, K., +, T-AC Jun 03 1064-1068*
- Discrete systems**
- correction to "Robust D-stability for linear uncertain discrete time-delay systems" (Feb 94 425-439). *Su, T.-J., +, T-AC Apr 03 709*
- recursive estimation methods for discrete systems. *Lo, K., +, T-AC Nov 03 2019-2023*
- Discrete systems; cf.** Discrete event systems; Discrete time systems; Sampled data systems
- Discrete time systems**
- Adaptive control of discrete time systs. with concave/convex parametrizations. *Loh, A.P., +, T-AC Jun 03 1069-1072*
- Approach to ident. for robust control. *Gugercin, S., +, T-AC Jun 03 1109-1115*
- book review; Impulsive Control in Continuous and Discrete-Continuous Systems (Miller, B.M. and Ya, E.). *Xu, X., T-AC Dec 03 2288-2289*
- constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A., +, T-AC May 2003 810-815*
- Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V., +, T-AC Feb 03 246-258*
- constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A., +, T-AC Sep 03 1600-1606*
- corrections to "Robust H_∞ control for linear discrete-time systems with norm-bounded nonlinear uncertainties" (Jan 99 108-111). *Ghosh, J., +, T-AC Aug 03 1471-1472*
- correction to "Necessary and sufficient conditions for root clustering of a polytope of polynomials in a simply connected domain". *Zeheb, E., T-AC Sep 03 1674*
- digital controller, finite-precision, closed-loop stabil. measure. *Jun Wu, +, T-AC May 2003 816-822*
- discrete-time lin. syst. receding-horizon state estim.. *Alessandri, A., +, T-AC Mar 03 473-478*
- equiv. control sliding-mode control systs., discretization behaviors. *Xinghuo Yu, +, T-AC Sep 03 1641-1646*
- Existence and uniqueness of open-loop Nash equilibria in linear-quadratic discrete time games. *Jank, G., +, T-AC Feb 03 267-271*
- finite gain l_p stabilization of discrete-time linear systems subject to actuator saturation; the case of p = 1. *Chitour, Y., +, T-AC Dec 03 2196-2198*
- finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V., +, T-AC Oct 03 1836-1842*

- Hammerstein models, bounded output errors, param. bounds. *Cerone, V.*, +, *T-AC Oct 03* 1855-1860
- iter. learning control with syst. relative degree, init. shift issues. *Mingxuan Sun*, +, *T-AC Jan 03* 144-148
- jump systs., bounded real lemma. *Seiler, P.*, +, *T-AC Sep 03* 1651-1654
- LTI syst. non-overshooting step response controller synthesis. *Darbha, S.*, +, *T-AC May 2003* 797-800
- M discrete-time plants, M-periodic controller, simultaneous pole placement. *Das, S.K.*, +, *T-AC Nov 03* 2045-2050
- New approach to digital PID controller design. *Keel, L.H.*, +, *T-AC Apr 03* 687-692
- new method for stability analysis of nonlinear discrete-time systems. *Barabanov, N.E.*, +, *T-AC Nov 03* 1908-1925
- Nonlinear discrete-time observer design with lin. error dyn.. *MingQing Xiao*, +, *T-AC Apr 03* 622-626
- parameterized interconnected ISS systs., discrete-time Lyapunov-based small-gain theorem. *Laila, D.S.*, +, *T-AC Oct 03* 1783-1788
- Problem of state estim. via asynchronous commun. channels with irregular transm. times. *Matveev, A.S.*, +, *T-AC Apr 03* 670-676
- quadratic nonlin. systs. set simul.. *Calafiore, G.*, *T-AC May 2003* 800-805
- quantized input and state meas., stabil.. *Richter, H.*, +, *T-AC Aug 03* 1453-1458
- restricted dyn. feedback, linearization. *Hong-Gi Lee*, +, *T-AC Sep 03* 1646-1650
- robust servomechanism problem for discrete-time LTI systs., perform. limitations. *Jemaa, L.B.*, +, *T-AC Aug 03* 1299-1311
- sampled-data syst. H_∞ control/ discretization, open problem. *Mirkin, L.*, +, *T-AC May 2003* 891-894
- Stability of lin. discrete dyn. employing state saturation arith.. *Ooba, T.*, *T-AC Apr 03* 626-630
- stabilization, 1st-order controllers. *Tantaris, R.N.*, +, *T-AC May 2003* 858-860
- testing pos. realness of SISO systs., eigenvalue-based algms.. *Weiguo Gao*, +, *T-AC Nov 03* 2051-2055
- Uniform asymptotic stability of hybrid dynamical systems with delay. *Rong Yuan*, +, *T-AC Feb 03* 344-348
- Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang*, +, *T-AC Jul 03* 1254-1258
- Distributed algorithms**
telecom. networks, dyn. Cesaro-Wardrop equilibration. *Borkar, V.S.*, +, *T-AC Mar 03* 382-396
- Distributed computing**
T-liveness enforcing supervisors, Petri nets, design. *Iordache, M.V.*, +, *T-AC Nov 03* 1962-1974
- Distributed control**
Author's reply [to comments on 'Exact output tracking in decentralized adaptive control']. *Narendra, K.S.*, *T-AC Feb 03* 350-351
- Comments on "Exact output tracking in decentralized adaptive control". *Mirkin, B.M.*, *T-AC Feb 03* 348-350
- Coordination of groups of mobile autonomous agents using nearest neighbor rules. *Jadbabaie, A.*, +, *T-AC Jun 03* 988-1001
- Decentralized adaptive output regulation for a class of large-scale nonlinear systems. *Xudong Ye*, +, *T-AC Feb 03* 276-281
- Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay systs.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217
- dissipative Hamiltonian realization and energy -based L_2 -disturbance atten. control of multimachine power systs.. *Yuzhen Wang*, +, *T-AC Aug 03* 1428-1433
- large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810
- lin. sing. systs. subj., decentralized output feedback, impulsive modes. *Runyi Yu*, +, *T-AC Oct 03* 1804-1809
- lin. state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M.*, +, *T-AC Sep 03* 1613-1619
- relay-based decentralized multivariable proc. ident. in freq. domain. *Ya-Gang Wang*, +, *T-AC May 2003* 873-878
- spatially interconnected systs., distrib. control design. *D'Andrea, R.*, +, *T-AC Sep 03* 1478-1495
- Synthesis of safe control policies in decentralized control of discrete-event systs.. *Rohloff, K.*, +, *T-AC Jun 03* 1064-1068
- wireless network power control, S-modular games. *Altman, E.*, +, *T-AC May 2003* 839-842
- Distributed parameter systems**
dissipative bilinear distributed syst. output stabilization. *Bounit, H.*, +, *T-AC Mar 03* 479-483
- Distributed processing**
Markov nets, probabilistic models for distributed and concurrent systems. *Benveniste, A.*, +, *T-AC Nov 03* 1936-1950
- probabilistic enhancement of classical robustness margins, a class of nonsymmetric distributions. *Lagoa, C.M.*, *T-AC Nov 03* 1990-1994
- Distributed processing; cf.** Distributed algorithms; Message passing
- Dynamic programming**
call blending, call centers, queueing model. *Bhulai, S.*, +, *T-AC Aug 03* 1434-1438
- Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V.*, +, *T-AC Feb 03* 246-258
- Markov decision proc. with delays and asynchronous cost collection. *Katsikopoulos, K.V.*, +, *T-AC Apr 03* 568-574
- Max-plus eigenvector representations for soln. of nonlin. H_∞ problems, basic concepts. *McEneaney, W.M.*, *T-AC Jul 03* 1150-1163
- nonlin. systs., anal. and synthesis, l^∞ -bounded robustness. *Shoudong Huang*, +, *T-AC Nov 03* 1875-1891
- optimal Markovian target search, infinite-horizon case. *Singh, S.*, +, *T-AC Mar 03* 493-497
- ?spl infin-/bounded robustness for nonlinear systems: Analysis and synthesis. *Huang, S.*, +, *T-AC Nov 03* 1875-1891
- Dynamic response; cf.** Transient response
- Dynamics**
MIMO nonlin. syst. output regulation solv ability. *Jie Huang*, *T-AC May 2003* 880-885
- nonlin. syst. feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S.*, +, *T-AC Mar 03* 513-517
- Stability of lin. discrete dyn. employing state saturation arith.. *Ooba, T.*, *T-AC Apr 03* 626-630
- Dynamics; cf.** Fluid dynamics; Friction
- E**
- Education; cf.** Engineering education
- Eigenvalues and eigenfunctions**
class of genuinely nonlin. systs., plane, nonsmooth output feedback stabil.. *Chunjiang Qian*, +, *T-AC Oct 03* 1824-1829
- differential-algebraic systs., double SB points. *Riaza, R.*, *T-AC Sep 03* 1625-1629
- Eigenvalue-based algorithms for testing positive realness of SISO systems. *Gao, W.*, +, *T-AC Nov 03* 2051-2054
- Finitetime behavior of inner systs.. *Ludlage, J.H.A.*, +, *T-AC Jul 03* 1134-1149
- Hopf bifurcations in sing. perturbed systs.. *Yang, L.*, +, *T-AC Apr 03* 660-664
- LQ differential game, Nash alg. Riccati eqns., eigenvectors. *Engwerda, J.C.*, *T-AC May 2003* 847-852
- Max-plus eigenvector representations for soln. of nonlin. H_∞ problems, basic concepts. *McEneaney, W.M.*, *T-AC Jul 03* 1150-1163
- MIMO nonlin. syst. output regulation solvability. *Jie Huang*, *T-AC May 2003* 880-885
- nonlin. controllability of homog. systs. lin. in control. *Melody, J.*, +, *T-AC Jan 03* 139-143
- semidefinite prog. duality and LTI systs.. *Balakrishnan, V.*, +, *T-AC Jan 03* 30-41
- Semiglobal stabilization and output regulation of sing. lin. systs. with input saturation. *Weiyao Lan*, +, *T-AC Jul 03* 1274-1280
- sliding-mode control design for complex valued sliding manifold. *Shepit, B.M.*, +, *T-AC Jan 03* 122-127
- stabil. of lin. systs. with uncertain delay. *Kharitonov, V.L.*, +, *T-AC Jan 03* 127-132
- structurally stable regulation, stabil. loss. *Maithripala, D.H.S.*, +, *T-AC Mar 03* 483-486
- testing pos. realness of SISO systs., eigenvalue-based algms.. *Weiguo Gao*, +, *T-AC Nov 03* 2051-2055
- Electrical faults; cf.** Fault location
- Electric final control devices; cf.** Switches
- Electric variables control; cf.** Power control
- Electric variables measurement; cf.** Gain measurement

Encoding

nonconcurrent error detection and correction in fault-tolerant linear finite state machines. *Hadjicostis, C.N., T-AC Dec 03* 2133-2140

Engineering; cf. Concurrent engineering; Control engineering; Design engineering; Engineering education

Engineering education

book reviews; Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Xi-Ren Cao, +, T-AC Sep 03* 1676-1678

Engines

Separation principle for non-UCO systs., jet engine stall and surge example. *Maggiore, M., +, T-AC Jul 03* 1264-1269

Entropy; cf. Minimum entropy methods

Equations; cf. Differential equations; Riccati equations

Error analysis

discrete systs., recursive estim. methods. *Kueiming Lo, +, T-AC Nov 03* 2019-2023

Error correction

nonconcurrent error detection and correction in fault-tolerant linear finite state machines. *Hadjicostis, C.N., T-AC Dec 03* 2133-2140

Error detection

nonconcurrent error detection and correction in fault-tolerant linear finite state machines. *Hadjicostis, C.N., T-AC Dec 03* 2133-2140

Errors; cf. Measurement errors; Roundoff errors

Estimation

Adaptive suboptimal tracking for first-order plant with Lipschitz uncertainty. *Sokolov, V.F., T-AC Apr 03* 607-612

proportional rel., concurrent estim.. *Ishizaki, F., +, T-AC Oct 03* 1861-1865

system identification using binary sensors. *Le Wang, Y., +, T-AC Nov 03* 1892-1907

Estimation theory

estimation with lossy measurements, jump estimators for jump systems.

Smith, S.C., +, T-AC Dec 03 2163-2171

new block algorithm for full-rank solution of the Sylvester-observer equation. *Carvalho, J., +, T-AC Dec 03* 2223-2228

Estimation theory; cf. Adaptive estimation; Frequency estimation; Nonlinear estimation; Recursive estimation

Etching; cf. Sputter etching

F

Factory automation; cf. Industrial control

Fault diagnosis

asynchronous discrete-event syst. fault diagnosis, net unfolding. *Benveniste, A., +, T-AC May 2003* 714-727

Fault diagnosis in discrete-event systs., framework and model reduction. *Zad, S.H., +, T-AC Jul 03* 1199-1212

Fault diagnosis; cf. Fault location

Fault location

game-theoretic approach to fault detect./isolation decision. *Darkhovski, B., +, T-AC May 2003* 853-858

Fault tolerance

nonconcurrent error detection and correction in fault-tolerant linear finite state machines. *Hadjicostis, C.N., T-AC Dec 03* 2133-2140

Feedback

2DOF controller parametrization for systems with a single I/O delay. *Mirkin, L., +, T-AC Nov 03* 1999-2003

Adaptive suboptimal tracking for first-order plant with Lipschitz uncertainty. *Sokolov, V.F., T-AC Apr 03* 607-612

approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E., +, T-AC Sep 03* 1606-1610

Asymptotic stabilization via output feedback for lower triangular systs. with output depend. incremental rate. *Praly, L., T-AC Jun 03* 1103-1108

class of genuinely nonlin. systs., plane, nonsmooth output feedback stabil.. *Chunjiang Qian, +, T-AC Oct 03* 1824-1829

class of nonlin. systs., unstable internal dynamics, adaptive stabil.. *Zhengtao Ding, T-AC Oct 03* 1788-1792

control, constraints, perform. degrad.. *Perez, T., +, T-AC Aug 03* 1381-1385

control logic for forbidden-state problems of marked graphs, real mfg. syst. appl.. *Ghaffari, A., +, T-AC Jan 03* 18-29

discrete-time syst. stabilization by 1st-order controllers. *Tantris, R.N., +, T-AC May 2003* 858-860

discrete-time systs. via restricted dyn. feedback, linearization. *Hong-Gi Lee, +, T-AC Sep 03* 1646-1650

dissipative Hamiltonian realization and energy-based L_2 -disturbance atten. control of multimachine power systs.. *Yuzhen Wang, +, T-AC Aug 03* 1428-1433

doubly coprime fractional representations of gen. dynamical systs., results. *Zhi-Wei Gao, +, T-AC Feb 03* 299-303

Extraction of dead-time controllers and estimators from delay-free parametrizations. *Mirkin, L., T-AC Apr 03* 543-553

Feedback can reduce the specification complexity of motor programs. *Egerstedt, M.B., +, T-AC Feb 03* 213-223

general control config., fund. design limitations. *Freudenberg, J.S., +, T-AC Aug 03* 1355-1370

global adaptive control of nonlin. parametrized systs.. *Xudong Ye, T-AC Jan 03* 169-173

global asymptotic stabilization for chains of integrators with delay in input. *Mazenc, F., +, T-AC Jan 03* 57-63

global high-gain based observer and backstepping controller for generalized output-feedback canonical form. *Krishnamurthy, P., +, T-AC Dec 03* 2277-2284

global tracking control of a helicopter without velocity measurements. *Do, K.D., +, T-AC Dec 03* 2212-2217

Hamiltonian via feedback, from nonlin.. *Tabuada, P., +, T-AC Aug 03* 1439-1442

Immersion and invariance, new tool for stabilization and adaptive control of nonlin. systs.. *Astolfi, A., +, T-AC Apr 03* 590-606

input-saturation lin. systs., composite nonlin. feedback control. *Chen, B.M., +, T-AC Mar 03* 427-439

integral proc. control with dead time, deadbeat disturbance response. *Qing-Chang Zhong, T-AC Jan 03* 153-159

Intersample and finite wordlength effects in sampled-data problems. *Bamieh, B., T-AC Apr 03* 639-643

lin. feedback systs., presence of plant uncertainty, perform. limitations. *Goodwin, G.C., +, T-AC Aug 03* 1312-1319

lin. sing. systs. subj., decentralized output feedback, impulsive modes. *Runyi Yu, +, T-AC Oct 03* 1804-1809

lin. systs., limited inform., stabil.. *Liberzon, D., T-AC Feb 03* 304-307

lin. systs., presence of meas. constraint, semiglobal regulation. *Marconi, L., T-AC Aug 03* 1417-1421

LQ differential game, Nash alg. Riccati eqns., eigenvectors. *Engwerda, J.C., T-AC May 2003* 847-852

LQ regulators, reduced explicit constrained, piecewise lin. feedback. *Johansen, T.A., T-AC May 2003* 823-829

LTI syst. MRAC. *Miller, D.E., T-AC May 2003* 743-757

LTI syst. non-overshooting step response controller synthesis. *Darbha, S., +, T-AC May 2003* 797-800

Lyapunov fns., composite, quadratic, for constrained control systs.. *Tingshu Hu, +, T-AC Mar 03* 440-450

MIMO nonlin. syst. output regulation solvability. *Jie Huang, T-AC May 2003* 880-885

min.-phase syst. adaptive control, gain adaptation. *Ilchmann, A., +, T-AC May 2003* 895-899

monotone control systs.. *Angeli, D., +, T-AC Oct 03* 1684-1698

new developments and applications in performance limitation of feedback control (special section). *T-AC Aug 03* 1297, 1299-1398

new developments and applications in performance limitation of feedback control (special section intro.). *Chen, J., +, T-AC Aug 03* 1297

nonautonomous switched systs., extended invariance principle. *Orlov, Y., T-AC Aug 03* 1448-1452

nonlin. syst. feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S., +, T-AC Mar 03* 513-517

nonlin. systs., pattern gener. and control. *Brockett, R.W., T-AC Oct 03* 1699-1711

Note on global output regulation of nonlin. systs. in output feedback form. *Qi Gong, +, T-AC Jun 03* 1049-1054

output feedback control, high-order sliding manifold approach. *Cavallo, A., +, T-AC Mar 03* 469-472

output-feedback model-reference sliding mode control of uncertain multivariable systems. *Cunha, J.P.V.S., +, T-AC Dec 03* 2245-2250

planar biped walkers, hybrid zero dyn.. *Westervelt, E.R., +, T-AC Jan 03* 42-56

proportional rel., concurrent estim.. *Ishizaki, F., +, T-AC Oct 03* 1861-1865

Quadratic charactn. and use of output stabilizable subspaces. *Castelan, E.B., +, T-AC Apr 03* 654-660

- random refs., tracking. *Yongsoo Eun*, +, *T-AC Sep 03* 1666-1671
- Reduced-order solutions for the singular H^{∞} filtering problem. *Ariola, M.*, +, *T-AC Feb 03* 271-275
- relatively optimal control and its linear implementation. *Blanchini, F.*, +, *T-AC Dec 03* 2151-2162
- Robust adaptive control of nonlin. systs. represented by input-output models. *Yusheng Liu*, +, *T-AC Jun 03* 1041-1045
- scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F.*, +, *T-AC Sep 03* 1569-1584
- Semiglobal stabilization and output regulation of sing. lin. systs. with input saturation. *Weiyao Lan*, +, *T-AC Jul 03* 1274-1280
- Separation principle for non-UCO systs., jet engine stall and surge example. *Maggiore, M.*, +, *T-AC Jul 03* 1264-1269
- stabil. and controller robustness of popular PID tuning rules. *Silva, G.J.*, +, *T-AC Sep 03* 1638-1641
- Stability anal. for nonlin. feedback control systs. with lin. actuators. *Jian'an Fang*, +, *T-AC Apr 03* 649-654
- Stability of systs. with several monotone nonlin.. *Barabanov, N.E.*, *T-AC Apr 03* 665-670
- Static sliding-motion phenom. in dyn. systs.. *Junger, I.B.*, +, *T-AC Apr 03* 680-686
- stochastic nonlin. syst. output feedback with risk-sensitive cost. *Yungang Liu*, +, *T-AC Mar 03* 509-513
- Sufficient condition for instabil. of buffer priority policies in re-entrant lines. *Chuang Lin*, +, *T-AC Jul 03* 1235-1238
- time-varying uncertain nonlin. systs., unknown control coeffs., robust adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469
- transfer function approach to quantum control part I, dynamics of quantum feedback systems. *Yanagisawa, M.*, +, *T-AC Dec 03* 2107-2120
- transient response control via characteristic ratio assignment. *Kim, Y.C.*, +, *T-AC Dec 03* 2238-2244
- uncertain systs., nonlin. parameterization, adaptive and robust controls. *Zhihua Qu*, *T-AC Oct 03* 1817-1824
- Uniform asymptotic stability of hybrid dynamical systems with delay. *Rong Yuan*, +, *T-AC Feb 03* 344-348
- Universal disturbance rejection for nonlin. systs. in output feedback form. *Zhengtao Ding*, *T-AC Jul 03* 1222-1226
- Feedback; cf.** State feedback
- Feedforward neural networks**
approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610
- Feedforward systems**
Feedback can reduce the specification complexity of motor programs. *Egerstedt, M.B.*, +, *T-AC Feb 03* 213-223
- helicopter const. attitude maint., robust nonlin. motion control. *Isidori, A.*, +, *T-AC Mar 03* 413-426
- Immersion and invariance, new tool for stabilization and adaptive control of nonlin. systs.. *Astolfi, A.*, +, *T-AC Apr 03* 590-606
- systs., single I/O delay, 2DOF controller parametrization. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
- Filtering**
Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M.*, +, *T-AC Jul 03* 1285-1292
- Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V.*, +, *T-AC Feb 03* 246-258
- Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W.*, +, *T-AC Feb 03* 224-235
- delay-depend. robust $H_{\infty}/L_2-L_{\infty}$ filtering for class of uncertain nonlin. time-delay systs.. *Huijun Gao*, +, *T-AC Sep 03* 1661-1666
- finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842
- nonlin. filtering, DMZ eqn. explicit soln. via ODE. *Yau, S.S.-T.*, +, *T-AC Mar 03* 505-508
- nonlin. observers for autonomous Lipschitz continuous systs.. *Kreisselmeier, G.*, +, *T-AC Mar 03* 451-464
- pos. real models, subspace ident. by regularization, ident.. *Goethals, I.*, +, *T-AC Oct 03* 1843-1847
- probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599
- Reduced-order solutions for the singular H^{∞} filtering problem. *Ariola, M.*, +, *T-AC Feb 03* 271-275
- uncertain Markovian jump delay syst. robust H^{∞} filtering. *Shengyuan Xu*, +, *T-AC May 2003* 900-907
- Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang*, +, *T-AC Jul 03* 1254-1258
- Filtering theory**
 H_{∞} filtering for singular systems. *Xu, S.*, +, *T-AC Dec 03* 2217-2222
- Filtering theory; cf.** Smoothing methods
- Filters; cf.** Adaptive filters; Kalman filters; Nonlinear filters; Notch filters
- Finite automata**
deciding co-observability is PSPACE-complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1998
- deciding coobservability, PSPACE-complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1999
- Fault diagnosis in discrete-event systs., framework and model reduction. *Zad, S.H.*, +, *T-AC Jul 03* 1199-1212
- Feedback can reduce the specification complexity of motor programs. *Egerstedt, M.B.*, +, *T-AC Feb 03* 213-223
- Finite automata; cf.** Finite state machines
- Finite difference methods**
book review; Linear Estimation (Kailath, T., et al.; 2000). *Mitter, S.K.*, *T-AC Jan 03* 177-180
- finite-dimensional observers for delay systems. *Fiagbedzi, Y.A.*, +, *T-AC Nov 03* 1986-1989
- Finite element analysis**
correction to "On the numerical computation in systems and control" (Nov 02 1786-1799). *Chu, D.*, +, *T-AC Jan 03* 174-176
- Finite state machines**
Control of asynchronous machines with races. *Murphy, T.E.*, +, *T-AC Jun 03* 1073-1081
- deciding co-observability is PSPACE-complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1998
- Minimal commun. in distributed discrete-event syst.. *Rudie, K.*, +, *T-AC Jun 03* 957-975
- nonconcurrent error detection and correction in fault-tolerant linear finite-state machines. *Hadjicostis, C.N.*, *T-AC Dec 03* 2133-2140
- FIR digital filters**
Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M.*, +, *T-AC Jul 03* 1285-1292
- Fluid dynamics**
fluid queueing systems with strict priority. *Liu, Y.*, +, *T-AC Dec 03* 2079-2088
- Fluid mechanics; cf.** Fluid dynamics
- Formal logic; cf.** Recursive functions
- Formal specification; cf.** Algebraic specification
- Fourier transforms**
decentralized relay-based multivariable proc. ident. in freq. domain. *Ya-Gang Wang*, +, *T-AC May 2003* 873-878
- Frequency domain analysis**
decentralized relay-based multivariable proc. ident. in freq. domain. *Ya-Gang Wang*, +, *T-AC May 2003* 873-878
- discrete systs., recursive estim. methods. *Kueiming Lo*, +, *T-AC Nov 03* 2019-2023
- Stability of systs. with several monotone nonlin.. *Barabanov, N.E.*, *T-AC Apr 03* 665-670
- Frequency domain synthesis**
Standard H_{∞} control of procs. with, single delay. *Qing-Chang Zhong*, *T-AC Jun 03* 1097-1103
- Frequency estimation**
Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M.*, +, *T-AC Jul 03* 1285-1292
- Magnitude/PLL approach to param. estim. of periodic sigs.. *Biqing Wu*, +, *T-AC Apr 03* 612-618
- Frequency response**
decentralized relay-based multivariable proc. ident. in freq. domain. *Ya-Gang Wang*, +, *T-AC May 2003* 873-878
- Frequency domain ident. of Hammerstein models. *Er-Wei Bai*, *T-AC Apr 03* 530-542
- Fricion**
nonautonomous switched systs., extended invariance principle. *Orlov, Y.*, *T-AC Aug 03* 1448-1452
- Functional analysis; cf.** Harmonic analysis
- Function approximation; cf.** Chebyshev approximation
- Functions; cf.** Recursive functions; Transfer functions

G

Gain measurement

finite gain l_p stabilization of discrete-time linear systems subject to actuator saturation; the case of $p = 1$. *Chitour, Y., +, T-AC Dec 03 2196-2198*

Game theory

Existence and uniqueness of open-loop Nash equilibria in linear-quadratic discrete time games. *Jank, G., +, T-AC Feb 03 267-271*

fault detect/isolation, game-theoretic approach to decision. *Darkhovski, B., +, T-AC May 2003 853-858*

wireless network power control, S-modular games. *Altman, E., +, T-AC May 2003 839-842*

Game theory; cf. Differential games; Stochastic games**Gaussian distributions**

nonlin. filtering, DMZ eqn. explicit soln. via ODE. *Yau, S.S.-T., +, T-AC Mar 03 505-508*

Geometry

Hamiltonian via feedback, from nonlin.. *Tabuada, P., +, T-AC Aug 03 1439-1442*

Quadratic charactn. and use of output stabilizable subspaces. *Castelan, E.B., +, T-AC Apr 03 654-660*

Geometry; cf. Computational geometry; Differential geometry**Graph theory**

fluid net., side constraints, optimal control. *Yingdong Lu, +, T-AC Oct 03 1865-1869*

Graph theory; cf. Reachability analysis**Group theory; cf.** Lie groups**Gyroscopes**

coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J., +, T-AC Nov 03 2011-2015*

fault-tolerant reconfigurable control, generalized internal model control. *Campos-Delgado, D.U., +, T-AC May 2003 832-839*

H

Hankel matrices

unstable independent models, stable predict.. *Rossiter, J.A., T-AC Nov 03 2029-2035*

Harmonic analysis

Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M., +, T-AC Jul 03 1285-1292*

Helicopters

attitude maint., robust nonlin. motion control. *Isidori, A., +, T-AC Mar 03 413-426*

global tracking control of a helicopter without velocity measurements. *Do, K.D., +, T-AC Dec 03 2212-2217*

Hidden Markov models

distrib. and concurrent systs., Markov nets, probabilistic models. *Benveniste, A., +, T-AC Nov 03 1936-1950*

Hierarchical systems

discrete-event syst. hierarchical control, consistency conditions, complexity. *Zhijun Chao, +, T-AC Mar 03 465-468*

Multitime scale Markov decision procs.. *Hyeong Soo Chang, +, T-AC Jun 03 976-987*

High-speed techniques

fluid queueing systems with strict priority. *Liu, Y., +, T-AC Dec 03 2079-2088*

H-infinity control

Exact computation of traces and H^2 norms for class of infinite-dimens. problems. *Bamieh, B., +, T-AC Apr 03 646-649*

H_2 control with time-domain constraints, design. *Sznaier, M., +, T-AC Mar 03 355-368*

H_2/H_∞ static robust feedback control, lin. param. depend. design. *Shaked, U., T-AC May 2003 866-872*

lin. time-delay systs., descriptor syst. approach. *Huijun Gao, +, T-AC Mar 03 520-525*

Reduced-order solutions for the singular H^∞ filtering problem. *Ariola, M., +, T-AC Feb 03 271-275*

robust H_∞ filtering of lin. systs. with time-varying delay. *Fridman, E., +, T-AC Jan 03 159-165*

sampled-data syst. H_∞ control/ discretization, open problem. *Mirkin, L., +, T-AC May 2003 891-894*

Standard H_∞ control of procs. with, single delay. *Qing-Chang Zhong, T-AC Jun 03 1097-1103*

switched lin. systs., RMS gains. *Hespanha, J.P., T-AC Nov 03 2040-2045*
systs., single I/O delay, 2DOF controller parametrization. *Mirkin, L., +, T-AC Nov 03 1999-2003*

H-infinity optimization

delay-depend. robust H_∞/L_2-L_∞ filtering for class of uncertain nonlin. time-delay systs.. *Huijun Gao, +, T-AC Sep 03 1661-1666*

Extraction of dead-time controllers and estimators from delay-free parametrizations. *Mirkin, L., T-AC Apr 03 543-553*

sampled-data syst. H_∞ control/ discretization, open problem. *Mirkin, L., +, T-AC May 2003 891-894*

H/sub8/ control

H_{∞} filtering for singular systems. *Xu, S., +, T-AC Dec 03 2217-2222*

H⁸ control

optimization approach to matrix-valued Nevanlinna-Pick interpolation with complexity constraint. *Blomqvist, A., +, T-AC Dec 03 2172-2190*

I

Identification

Approach to ident. for robust control. *Gugercin, S., +, T-AC Jun 03 1109-1115*

control-oriented ident. and model (In) validation of LPV systs., LMI approach. *Sznaier, M., +, T-AC Sep 03 1619-1624*

decentralized relay-based multivariable proc. ident. in freq. domain. *Ya-Gang Wang, +, T-AC May 2003 873-878*

Frequency domain ident. of Hammerstein models. *Er-Wei Bai, T-AC Apr 03 530-542*

Identifiability of nonlinear systems with application to HIV/AIDS models. *Xia, X., +, T-AC Feb 03 330-336*

Orthogonal rational fns. for syst. ident., num. aspects. *Van gucht, P., +, T-AC Apr 03 705-709*

pos. real models, subspace ident. by regularization, ident.. *Goethals, I., +, T-AC Oct 03 1843-1847*

range identification for perspective vision systems. *Dixon, W.E., +, T-AC Dec 03 2232-2238*

recursive identification of Hammerstein systems with discontinuous nonlinearities containing dead-zones. *Voros, J., T-AC Dec 03 2203-2206*

SISO lin. syst. param. convergence, sufficient conditions. *Jeng Tze Huang, T-AC May 2003 878-880*

Sparse kernel regression modeling using combined locally regularized orthogonal least sq. and D-optimality expt. design. *Chen, S., +, T-AC Jun 03 1029-1036*

system identification using binary sensors. *Le Wang, Y., +, T-AC Nov 03 1892-1907*

syst. ident., binary sens.. *Le Yi Wang, +, T-AC Nov 03 1892-1907*

worst-case approx. of feasible syst. sets via orthonormal basis fns.. *Casini, M., +, T-AC Jan 03 96-101*

Identification; cf. Parameter estimation; State estimation**IEEE**

list of reviewers for 2002. *T-AC May 2003 909-913*

Image sensors

Pose estimation using line-based dynamic vision and inertial sensors. *Rehbinder, H., +, T-AC Feb 03 186-199*

Induction motors

Robustness of global asymptotic stabil. in indirect field-oriented control of IM. *Reginatto, R., +, T-AC Jul 03 1218-1222*

Simplified exponentially convergent rotor resistance estimation for induction motors. *Bartolini, G., +, T-AC Feb 03 325-330*

Industrial control

feedback control logic for forbidden-state problems of marked graphs, real mfg. syst. appl.. *Ghaffari, A., +, T-AC Jan 03 18-29*

stable prediction for unstable independent models. *Rossiter, J.A., T-AC Nov 03 2029-2035*

Industrial control; cf. Numerical control; Process control**Infinite horizon**

two-person zero-sum Markov games, receding horizon approach. *Chang, H.S., +, T-AC Nov 03 1951-1961*

Information networks; cf. Internet**Information technology**

book review; Software-Enabled Control: Information Technology for Dynamical Systems (Samad, T. and Balas, G.; 2003). *Passino, K.M., T-AC Nov 03 2075-2076*

book reviews; Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Xi-Ren Cao, +, T-AC Sep 03 1676-1678*

Information theory; cf. Correlation theory; Decoding; Encoding; Filtering theory; Prediction theory

Input-output stability

2DOF controller parametrization for systems with a single I/O delay. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
 intrinsic difficulties in stochastic control of unstable convolution operators on *Z. Makila, P.M.*, *T-AC Nov 03* 2015-2018
 recursive estimation methods for discrete systems. *Lo, K.*, +, *T-AC Nov 03* 2019-2023
 stoch. control of unstable convolution operators, *Z.*, intrinsic difficulties. *Makila, P.M.*, *T-AC Nov 03* 2015-2018

Instruments; cf. Gyroscopes; Sensors

Interconnected systems

dissipative Hamiltonian realization and energy -based L_2 -disturbance atten. control of multimachine power systs.. *Yuzhen Wang*, +, *T-AC Aug 03* 1428-1433
 distrib. and concurrent systs., Markov nets, probabilistic models. *Benveniste, A.*, +, *T-AC Nov 03* 1936-1950
 large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810
 lin. state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M.*, +, *T-AC Sep 03* 1613-1619
 monotone control systs.. *Angeli, D.*, +, *T-AC Oct 03* 1684-1698
 spatially interconnected systs., distrib. control design. *D'Andrea, R.*, +, *T-AC Sep 03* 1478-1495

Interconnected systems; cf. Cascade systems

Interconnections

power shaping paradigm for stabilization of nonlinear RLC circuits. *Ortega, R.*, +, *T-AC Oct 03* 1762-1767

Internet

Global stabil. of congestion controllers for Internet. *Deb, S.*, +, *T-AC Jun 03* 1055-1060
 routing, constrained traffic equilib.. *El Azouzi, R.*, +, *T-AC Sep 03* 1656-1660
 Stability of data networks, optim.-based bandwidth allocation. *Heng-Qing Ye*, *T-AC Jul 03* 1238-1242
 stable, scalable, fair congestion control and AQM schemes achieve high utilization, Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028
 stable, scalable, fair congestion control and AQM schemes that achieve high utilization in the Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028

Interpolation

General interpolation in MPC and advantages. *Bacic, M.*, +, *T-AC Jun 03* 1092-1096
 optimization approach to matrix-valued Nevanlinna-Pick interpolation with complexity constraint. *Blomqvist, A.*, +, *T-AC Dec 03* 2172-2190
 robust solver using, continuation method for Nevanlinna-Pick interpolation with degree constraint. *Nagamune, R.*, *T-AC Jan 03* 113-117
 simultaneous perturb. stoch. approx. for nondifferentiable optim., convergence. *Ying He*, +, *T-AC Aug 03* 1459-1463

Inverse problems

Constructive controllability algms. for motion planning and optim.. *Cerven, W.T.*, +, *T-AC Apr 03* 575-589

Iterative methods

actuator amplit./rate saturation, local stabilization. *Gomes da Silva, J.M., Jr.*, +, *T-AC May 2003* 842-847
 DEDS perturb. anal., semi-Markov decision, sensitivity anal.. *Xi-Ren Cao*, *T-AC May 2003* 758-769
 delay nonlin. syst. stabilization, iter. procedure, comment. *Xinping Guan*, +, *T-AC May 2003* 907
 Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X.*, +, *T-AC Feb 03* 236-245
 fixed point theorem-based iter. learning control, LTV syst.. *Jian-Xin Xu*, +, *T-AC Mar 03* 487-492
 Hamiltonian systs., iter. learning control. *Fujimoto, K.*, +, *T-AC Oct 03* 1756-1761
 H_8 control of lin. time-delay systs., descriptor syst. approach. *Huijun Gao*, +, *T-AC Mar 03* 520-525
 optimal Markovian target search, infinite-horizon case. *Singh, S.*, +, *T-AC Mar 03* 493-497
 telecom. networks, dyn. Cesaro-Wardrop equilibration. *Borkar, V.S.*, +, *T-AC Mar 03* 382-396
 T-liveness enforcing supervisors, Petri nets, design. *Iordache, M.V.*, +, *T-AC Nov 03* 1962-1974

Iterative methods; cf. Newton method

K

Kalman filtering

Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V.*, +, *T-AC Feb 03* 246-258
 General two-stage extended Kalman filters. *Chien-Shu Hsieh*, *T-AC Feb 03* 289-293
 pos. real models, subspace ident. by regularization, ident.. *Goethals, I.*, +, *T-AC Oct 03* 1843-1847
 Set-valued state estim. via, limited capacity commun. channel. *Savkin, A.V.*, +, *T-AC Apr 03* 676-680

Kalman filters

direct transformation of nonlinear systems into state affine MISO form for observer design. *Souleiman, I.*, +, *T-AC Dec 03* 2191-2196

L

Large-scale systems

Decentralized adaptive output regulation for a class of large-scale nonlinear systems. *Xudong Ye*, +, *T-AC Feb 03* 276-281
 Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay systs.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217

Large-scale systems; cf. Interconnected systems

Learning control systems

composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties. *Dixon, W.E.*, +, *T-AC Sep 03* 1671-1672
 composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties]. *Jian-Xin Xu*, +, *T-AC Sep 03* 1672-1674
 iter. learning control, fixed point theorem-based, for LTV syst.. *Jian-Xin Xu*, +, *T-AC Mar 03* 487-492

Learning systems

robust iter. learning control design for uncertain LTI systs. satisfying robust perform. condition. *Tayebi, A.*, +, *T-AC Jan 03* 101-106

Least squares methods

pos. real models, subspace ident. by regularization, ident.. *Goethals, I.*, +, *T-AC Oct 03* 1843-1847
 Sparse kernel regression modeling using combined locally regularized orthogonal least sq. and D-optimality expt. design. *Chen, S.*, +, *T-AC Jun 03* 1029-1036
 Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L.*, +, *T-AC Jul 03* 1259-1263

Legged locomotion

planar biped walkers, hybrid zero dyn.. *Westervelt, E.R.*, +, *T-AC Jan 03* 42-56
 walking motions of planar biped walkers, switching and PI control. *Westervelt, E.R.*, +, *T-AC Feb 03* 308-312

Lie algebras

nonlin. controllability of homog. systs. lin. in control. *Melody, J.*, +, *T-AC Jan 03* 139-143

Lie groups

driftless systs., Lie groups, practical stabil.. *Morin, P.*, +, *T-AC Sep 03* 1496-1508
 Pose estimation using line-based dynamic vision and inertial sensors. *Rehbinder, H.*, +, *T-AC Feb 03* 186-199

Linear algebra

book review; Linear Estimation (Kailath, T., et al.; 2000). *Mitter, S.K.*, *T-AC Jan 03* 177-180
 Identifiability of nonlinear systems with application to HIV/AIDS models. *Xia, X.*, +, *T-AC Feb 03* 330-336

Linear algebra; cf. Eigenvalues and eigenfunctions

Linear approximation

class of genuinely nonlin. systs., plane, nonsmooth output feedback stabil.. *Chunjiang Qian*, +, *T-AC Oct 03* 1824-1829
 discrete-time systs. via restricted dyn. feedback, linearization. *Hong-Gi Lee*, +, *T-AC Sep 03* 1646-1650
 Hopf bifurcations in sing. perturbed systs.. *Yang, L.*, +, *T-AC Apr 03* 660-664
 Input lin. of nonlin. systs. via pulse-width control. *Dogrueel, M.*, *T-AC Apr 03* 635-638

- P-normal forms of nonlin. systs.. *Daizhan Cheng*, +, *T-AC Jul 03* 1242-1248
- SISO bilinear systs., constrained control. *Bacic, M.*, +, *T-AC Aug 03* 1443-1447
- Linearization techniques**
estimation with lossy measurements, jump estimators for jump systems. *Smith, S.C.*, +, *T-AC Dec 03* 2163-2171
- Linear matrix inequalities**
comments on "An LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays". *Gao, H.*, +, *T-AC Nov 03* 2073-2074
- Linear programming**
call admission control for stat. MUX allocating link bandwidth, optim.. *Spitler, S.L.*, +, *T-AC Oct 03* 1830-1836
constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
feedback control logic for forbidden-state problems of marked graphs, real mfg. syst. appl.. *Ghaffari, A.*, +, *T-AC Jan 03* 18-29
fluid net., side constraints, optimal control. *Yingdong Lu*, +, *T-AC Oct 03* 1865-1869
robust perform., PID controller design. *Ming-Tzu Ho*, +, *T-AC Aug 03* 1404-1409
Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L.*, +, *T-AC Jul 03* 1259-1263
- Linear-quadratic control**
Existence and uniqueness of open-loop Nash equilibria in linear-quadratic discrete time games. *Jank, G.*, +, *T-AC Feb 03* 267-271
reduced explicit constrained LQ regulators, piecewise lin. feedback. *Johansen, T.A.*, *T-AC May 2003* 823-829
- Linear-quadratic-Gaussian control**
finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842
Stochastic nonlinear minimax dynamic games with noisy measurements. *Charalambous, C.D.*, *T-AC Feb 03* 261-266
- Linear systems**
actuator amplit./rate saturation, local stabilization. *Gomes da Silva, J.M., Jr.*, +, *T-AC May 2003* 842-847
Approach to ident. for robust control. *Gugercin, S.*, +, *T-AC Jun 03* 1109-1115
book reviews; Control Theory for Linear Systems (Trentelman, H.L. et al.; 2001). *Petersen, I.R.*, *T-AC Mar 03* 526
Comments on "A robust state observer scheme". *Boutayeb, M.*, +, *T-AC Jul 03* 1292-1293
common quadratic Lyapunov fns.. *Shorten, R.*, +, *T-AC Jan 03* 110-113
Common quadratic Lyapunov fns. for pairs of stable LTI systs. whose syst. matrices are in companion form. *Shorten, R.N.*, +, *T-AC Apr 03* 618-621
constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A.*, +, *T-AC May 2003* 810-815
constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
Contractibility of dyn. LTI controllers using complementary matrices. *Bakule, L.*, +, *T-AC Jul 03* 1269-1274
Controllability of nonstandard sing. perturbed systs. with small state delay. *Glizer, V.Y.*, *T-AC Jul 03* 1280-1285
control-oriented ident. and model (In) validation of LPV systs., LMI approach. *Sznajder, M.*, +, *T-AC Sep 03* 1619-1624
corrections to "Robust H_∞ control for linear discrete-time systems with norm-bounded nonlinear uncertainties" (Jan 99 108-111). *Ghosh, J.*, +, *T-AC Aug 03* 1471-1472
correction to "Necessary and sufficient conditions for root clustering of a polytope of polynomials in a simply connected domain". *Zeheb, E.*, *T-AC Sep 03* 1674
Delay-depend./delay-independent stabil. of lin. systs. with multiple time-varying delays. *Bugong Xu*, +, *T-AC Apr 03* 697-701
delay systs., uncertain, param.-depend. stabil./stabilization. *Fridman, E.*, +, *T-AC May 2003* 861-866
discrete-time lin. syst. receding-horizon state estim.. *Alessandri, A.*, +, *T-AC Mar 03* 473-478
discrete-time systs., quantized input and state meas., stabil.. *Richter, H.*, +, *T-AC Aug 03* 1453-1458
discrete-time syst. stabilization by 1st.-order controllers. *Tantaris, R.N.*, +, *T-AC May 2003* 858-860
Eigenvalue-based algorithms for testing positive realness of SISO systems. *Gao, W.*, +, *T-AC Nov 03* 2051-2054
ellipsoidal approximation of the stability domain of a polynomial. *Henrion, D.*, +, *T-AC Dec 03* 2255-2259
feedback systs., presence of plant uncertainty, perform. limitations. *Goodwin, G.C.*, +, *T-AC Aug 03* 1312-1319
finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842
global analysis of piecewise linear systems using impact maps and surface Lyapunov functions. *Goncalves, J.M.*, +, *T-AC Dec 03* 2089-2106
global asymptotic stabilization for chains of integrators with delay in input. *Mazenc, F.*, +, *T-AC Jan 03* 57-63
guaranteed cost control for uncertain Markovian jump systems with mode-dependent time-delays. *Chen, W.-H.*, +, *T-AC Dec 03* 2270-2277
 H_2/H_∞ static robust feedback control, lin. param. depend. design. *Shaked, U.*, *T-AC May 2003* 866-872
 H_∞ control of lin. time-delay systs., descriptor syst. approach. *Huijun Gao*, +, *T-AC Mar 03* 520-525
 H_∞ filtering for singular systems. *Xu, S.*, +, *T-AC Dec 03* 2217-2222
hybrid syst. verification of polyhedral invariant hybrid automata. *Chutinan, A.*, +, *T-AC Jan 03* 64-75
input-saturation lin. systs., composite nonlin. feedback control. *Chen, B.M.*, +, *T-AC Mar 03* 427-439
interval systs., Routh-Pade model reduction. *Dolgin, Y.*, +, *T-AC Sep 03* 1610-1612
invariant subspaces for LPV systems and their applications. *Balas, G.*, +, *T-AC Nov 03* 2065-2068
iter. learning control, fixed point theorem-based, for LTV syst.. *Jian-Xin Xu*, +, *T-AC Mar 03* 487-492
joint optim. of commun. rates and lin. systs.. *Lin Xiao*, +, *T-AC Jan 03* 148-153
jump systs., bounded real lemma. *Seiler, P.*, +, *T-AC Sep 03* 1651-1654
limited inform., stabil.. *Liberzon, D.*, *T-AC Feb 03* 304-307
LPV systs. and their appls., invariant subspaces. *Balas, G.*, +, *T-AC Nov 03* 2065-2069
LTI syst. non-overshooting step response controller synthesis. *Darbha, S.*, +, *T-AC May 2003* 797-800
Lyapunov fns., composite, quadratic, for constrained control systs.. *Tingshu Hu*, +, *T-AC Mar 03* 440-450
Maximizing convergence rate for lin. systs. with input saturation. *Tingshu Hu*, +, *T-AC Jul 03* 1249-1253
min-max sliding-mode control for multimodel linear time varying systems. *Poznyak, A.S.*, +, *T-AC Dec 03* 2141-2150
MRAC for LTI syst.. *Miller, D.E.*, *T-AC May 2003* 743-757
nonconcurrent error detection and correction in fault-tolerant linear finite-state machines. *Hadjicostis, C.N.*, *T-AC Dec 03* 2133-2140
nonminimum phase systs., undershoot and settling time tradeoffs. *Lau, K.*, +, *T-AC Aug 03* 1389-1393
observability of linear stochastic uncertain systems. *Ugrinovskii, V.A.*, *T-AC Dec 03* 2264-2269
output regulation for linear systems via adaptive internal model. *Marino, R.*, +, *T-AC Dec 03* 2199-2202
polytopic uncertain syst. robust D-stabil., LMI condition. *Leite, V.J.S.*, +, *T-AC Mar 03* 500-504
presence of meas. constraint, semiglobal regulation. *Marconi, L.*, *T-AC Aug 03* 1417-1421
Problem of state estim. via asynchronous commun. channels with irregular transm. times. *Matveev, A.S.*, +, *T-AC Apr 03* 670-676
quadratic Lyapunov fns. of stable lin. syst.. *Daizhan Cheng*, +, *T-AC May 2003* 885-890
Quadratic stabil. and stabilization of dyn. interval systs.. *Wei-Jie Mao*, +, *T-AC Jun 03* 1007-1012
random refs., tracking. *Yongsoon Eun*, +, *T-AC Sep 03* 1666-1671
Reduced-order solutions for the singular H^∞ filtering problem. *Ariola, M.*, +, *T-AC Feb 03* 271-275
relatively optimal control and its linear implementation. *Blanchini, F.*, +, *T-AC Dec 03* 2151-2162
robust controllers for arbitrary uncertainty structs., design. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2065
robust iter. learning control design for uncertain LTI systs. satisfying robust perform. condition. *Tayebi, A.*, +, *T-AC Jan 03* 101-106
robust PI controller design satisfying sensitivity and uncertainty specifications. *Yaniv, O.*, +, *T-AC Nov 03* 2069-2072
robust PI controller design satisfying sensitivity and uncertainty specs.. *Yaniv, O.*, +, *T-AC Nov 03* 2069-2072
root-mean-square gains of switched linear systems. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2044

- scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F.*, +, *T-AC Sep 03* 1569-1584
- semidefinite prog. duality and LTI systs.. *Balakrishnan, V.*, +, *T-AC Jan 03* 30-41
- Semiglobal stabilization and output regulation of sing. lin. systs. with input saturation. *Weiyao Lan*, +, *T-AC Jul 03* 1274-1280
- Set-valued state estim. via, limited capacity commun. channel. *Savkin, A.V.*, +, *T-AC Apr 03* 676-680
- sing. systs. subj., decentralized output feedback, impulsive modes. *Runyi Yu*, +, *T-AC Oct 03* 1804-1809
- L_∞ -multipliers for robust perform. anal.. *Tanimou, M.*, +, *T-AC Jun 03* 1016-1018
- Stability anal. for nonlin. feedback control systs. with lin. actuators. *Jian'an Fang*, +, *T-AC Apr 03* 649-654
- stabil. of lin. systs. with uncertain delay. *Kharitonov, V.L.*, +, *T-AC Jan 03* 127-132
- stable lin. systs., input saturation, antiwindup. *Grimm, G.*, +, *T-AC Sep 03* 1509-1525
- state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M.*, +, *T-AC Sep 03* 1613-1619
- switched lin. systs., RMS gains. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2045
- synthesis of supervisors enforcing general linear constraints in Petri nets. *Iordache, M.V.*, +, *T-AC Nov 03* 2036-2039
- tracking sinusoidal sigs., fund. perform. limitations. *Weizhou Su*, +, *T-AC Aug 03* 1371-1380
- uncertain Markovian jump delay syst. robust H^∞ filtering. *Shengyuan Xu*, +, *T-AC May 2003* 900-907
- Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang*, +, *T-AC Jul 03* 1254-1258
- Losses**
estimation with lossy measurements, jump estimators for jump systems. *Smith, S.C.*, +, *T-AC Dec 03* 2163-2171
- Lyapunov matrix equations**
global analysis of piecewise linear systems using impact maps and surface Lyapunov functions. *Goncalves, J.M.*, +, *T-AC Dec 03* 2089-2106
Stability of lin. discrete dyn. employing state saturation arith.. *Ooba, T.*, *T-AC Apr 03* 626-630
- Lyapunov methods**
cascade syst. partial-state feedback stabilization, small gain theorem. *Wei Lin*, +, *T-AC Mar 03* 497-499
common quadratic Lyapunov fns.. *Shorten, R.*, +, *T-AC Jan 03* 110-113
Common quadratic Lyapunov fns. for pairs of stable LTI systs. whose syst. matrices are in companion form. *Shorten, R.N.*, +, *T-AC Apr 03* 618-621
composite quadratic Lyapunov fns. for constrained control systs.. *Tingshu Hu*, +, *T-AC Mar 03* 440-450
Coordination of groups of mobile autonomous agents using nearest neighbor rules. *Jadbabaie, A.*, +, *T-AC Jun 03* 988-1001
coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2015
DEDS perturb. anal., semi-Markov decision, sensitivity anal.. *Xi-Ren Cao*, *T-AC May 2003* 758-769
Delay-depend./delay-independent stabil. of lin. systs. with multiple time-varying delays. *Bugong Xu*, +, *T-AC Apr 03* 697-701
delayed neural net global asymptotic stabil.. *Qiang Zhang*, +, *T-AC May 2003* 794-797
delay systs., uncertain, param.-depend. stabil./stabilization. *Fridman, E.*, +, *T-AC May 2003* 861-866
dyn. props. of hybrid automata. *Lygeros, J.*, +, *T-AC Jan 03* 2-17
Example of GAS syst. which can be destabilized by integrable perturb.. *Sontag, E.D.*, +, *T-AC Jun 03* 1046-1049
finite gain l_p stabilization of discrete-time linear systems subject to actuator saturation; the case of $p = 1$. *Chitour, Y.*, +, *T-AC Dec 03* 2196-2198
global analysis of piecewise linear systems using impact maps and surface Lyapunov functions. *Goncalves, J.M.*, +, *T-AC Dec 03* 2089-2106
global exponential stabil. of uncertain chained systs., switching algm.. *Zairong Xi*, +, *T-AC Oct 03* 1793-1798
global tracking control of a helicopter without velocity measurements. *Do, K.D.*, +, *T-AC Dec 03* 2212-2217
 H_2/H_∞ static robust feedback control, lin. param. depend. design. *Shaked, U.*, *T-AC May 2003* 866-872
Immersion and invariance, new tool for stabilization and adaptive control of nonlin. systs.. *Astolfi, A.*, +, *T-AC Apr 03* 590-606
lin. time-varying systs., known/unknown params., backstepping control. *Youping Zhang*, +, *T-AC Nov 03* 1908-1925
Maximizing convergence rate for lin. systs. with input saturation. *Tingshu Hu*, +, *T-AC Jul 03* 1249-1253
nonautonomous switched systs., extended invariance principle. *Orlov, Y.*, *T-AC Aug 03* 1448-1452
nonlin. syst. feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S.*, +, *T-AC Mar 03* 513-517
nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*, +, *T-AC Nov 03* 2004-2010
parameterized interconnected ISS systs., discrete-time Lyapunov-based small-gain theorem. *Laila, D.S.*, +, *T-AC Oct 03* 1783-1788
polytopic uncertain syst. robust D-stabil., LMI condition. *Leite, V.J.S.*, +, *T-AC Mar 03* 500-504
probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599
Quadratic charactn. and use of output stabilizable subspaces. *Castelan, E.B.*, +, *T-AC Apr 03* 654-660
quadratic Lyapunov fns. of stable lin. syst.. *Daizhan Cheng*, +, *T-AC May 2003* 885-890
Quadratic stabil. and stabilization of dyn. interval systs.. *Wei-Jie Mao*, +, *T-AC Jun 03* 1007-1012
Robustness of global asymptotic stabil. in indirect field-oriented control of IM. *Reginatto, R.*, +, *T-AC Jul 03* 1218-1222
robust stabil. bound of time-delay systs., norm-bounded uncertainty, improved estim.. *Han, Q.L.*, +, *T-AC Sep 03* 1629-1633
scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F.*, +, *T-AC Sep 03* 1569-1584
State feedback stabilization for a class of stochastic time-delay nonlinear systems. *Yusun Fu*, +, *T-AC Feb 03* 282-286
systs., bounded nonlinearities, exponential stabil. and soln. bounds. *Zevin, A.*, +, *T-AC Oct 03* 1799-1804
Uniform asymptotic stability of hybrid dynamical systems with delay. *Rong Yuan*, +, *T-AC Feb 03* 344-348
- Lyapunov methods; cf.** Lyapunov matrix equations

M

- [m4]direct transformation of nonlinear systems into state affine MISO form for observer design**
direct transformation of nonlinear systems into state affine MISO form for observer design. *Souleiman, I.*, +, *T-AC Dec 03* 2191-2196
- Machine vision**
Pose estimation using line-based dynamic vision and inertial sensors. *Rehbinder, H.*, +, *T-AC Feb 03* 186-199
- Machine windings**
Robustness of global asymptotic stabil. in indirect field-oriented control of IM. *Reginatto, R.*, +, *T-AC Jul 03* 1218-1222
Simplified exponentially convergent rotor resistance estimation for induction motors. *Bartolini, G.*, +, *T-AC Feb 03* 325-330
- Management; cf.** Risk management
- Manipulators**
Hamiltonian systs., iter. learning control. *Fujimoto, K.*, +, *T-AC Oct 03* 1756-1761
nonautonomous switched systs., extended invariance principle. *Orlov, Y.*, *T-AC Aug 03* 1448-1452
- Markov processes**
2-pers. zero-sum Markov games, receding horizon approach. *Hyeong Soo Chang*, +, *T-AC Nov 03* 1951-1961
call blending, call centers, queueing model. *Bhulai, S.*, +, *T-AC Aug 03* 1434-1438
Controlled Markov chains with safety upper bound. *Arapostathis, A.*, +, *T-AC Jul 03* 1230-1234
DEDS perturb. anal., semi-Markov decision, sensitivity anal.. *Xi-Ren Cao*, *T-AC May 2003* 758-769
distrib. and concurrent systs., Markov nets, probabilistic models. *Benveniste, A.*, +, *T-AC Nov 03* 1936-1950
Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X.*, +, *T-AC Feb 03* 236-245
estimation with lossy measurements, jump estimators for jump systems. *Smith, S.C.*, +, *T-AC Dec 03* 2163-2171
finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842
guaranteed cost control for uncertain Markovian jump systems with mode-dependent time-delays. *Chen, W.-H.*, +, *T-AC Dec 03* 2270-2277

- Markov decision procs. with delays and asynchronous cost collection. *Katsikopoulos, K.V.*, +, *T-AC Apr 03* 568-574
- Markov nets, probabilistic models for distributed and concurrent systems. *Benveniste, A.*, +, *T-AC Nov 03* 1936-1950
- Multitime scale Markov decision procs.. *Hyeong Soo Chang*, +, *T-AC Jun 03* 976-987
- optimal Markovian target search, infinite-horizon case. *Singh, S.*, +, *T-AC Mar 03* 493-497
- two-person zero-sum Markov games, receding horizon approach. *Chang, H.S.*, +, *T-AC Nov 03* 1951-1961
- uncertain Markovian jump delay syst. robust H^{∞} filtering. *Shengyuan Xu*, +, *T-AC May 2003* 900-907
- Markov processes; cf.** Hidden Markov models
- Mathematical analysis; cf.** Approximation theory; Differential equations; Eigenvalues and eigenfunctions; Inverse problems; Numerical analysis; Series (mathematics)
- Mathematical programming; cf.** Dynamic programming; Linear programming
- Mathematics; cf.** Algebra; Estimation theory; Geometry; Probability; Set theory; Statistics; Topology
- Matrices**
- Common quadratic Lyapunov fns. for pairs of stable LTI systs. whose syst. matrices are in companion form. *Shorten, R.N.*, +, *T-AC Apr 03* 618-621
- continuous Riccati matrix eqn., soln. bounds. *Chien-Hua Lee*, *T-AC Aug 03* 1409-1413
- Contractibility of dyn. LTI controllers using complementary matrices. *Bakule, L.*, +, *T-AC Jul 03* 1269-1274
- Exact computation of traces and H^2 norms for class of infinite-dimens. problems. *Bamieh, B.*, +, *T-AC Apr 03* 646-649
- exact model-matching problem for lin. time-varying systs., alg. approach. *Marinescu, B.*, +, *T-AC Jan 03* 166-169
- Frobenius matrix norm. *Djouadi, S.M.*, *T-AC Mar 03* 518-519
- LQ differential game, Nash alg. Riccati eqns., eigenvectors. *Engwerda, J.C.*, *T-AC May 2003* 847-852
- no free lunch theorems, complexity, network security. *Yu-Chi Ho*, +, *T-AC May 2003* 783-793
- nonlin. syst. feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S.*, +, *T-AC Mar 03* 513-517
- pos. real models, subspace ident. by regularization, ident.. *Goethals, I.*, +, *T-AC Oct 03* 1843-1847
- quadratic Lyapunov fns. of stable lin. syst.. *Daizhan Cheng*, +, *T-AC May 2003* 885-890
- Reduced-order solutions for the singular H^{∞} filtering problem. *Ariola, M.*, +, *T-AC Feb 03* 271-275
- robust H_{∞} filtering of lin. systs. with time-varying delay. *Fridman, E.*, +, *T-AC Jan 03* 159-165
- Standard H_{∞} control of procs. with, single delay. *Qing-Chang Zhong*, *T-AC Jun 03* 1097-1103
- Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L.*, +, *T-AC Jul 03* 1259-1263
- supervisors enforcing general lin. constraints, Petri nets, synthesis. *Iordache, M.V.*, +, *T-AC Nov 03* 2036-2039
- Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang*, +, *T-AC Jul 03* 1254-1258
- Matrix algebra; cf.** Hankel matrices; Linear matrix inequalities; Lyapunov matrix equations; Matrix decomposition; Polynomial matrices; Toeplitz matrices; Transfer function matrices
- Matrix decomposition**
- doubly coprime fractional representations of gen. dynamical systs., results. *Zhi-Wei Gao*, +, *T-AC Feb 03* 299-303
- systs., single I/O delay, 2DOF controller parametrization. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003
- Matrix decomposition; cf.** Singular value decomposition
- Mean square error methods**
- root-mean-square gains of switched linear systems. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2044
- Measurement**
- estimation with lossy measurements, jump estimators for jump systems. *Smith, S.C.*, +, *T-AC Dec 03* 2163-2171
- Measurement; cf.** Reflectometry; Time measurement; Velocity measurement
- Measurement errors**
- discrete-time Hammerstein models, bounded output errors, param. bounds. *Cerone, V.*, +, *T-AC Oct 03* 1855-1860
- Mechanical properties; cf.** Friction
- Mechanics**
- transfer function approach to quantum control part I, dynamics of quantum feedback systems. *Yanagisawa, M.*, +, *T-AC Dec 03* 2107-2120
- Mechanics; cf.** Dynamics
- Message passing**
- Problem of state estim. via asynchronous commun. channels with irregular transm. times. *Matveev, A.S.*, +, *T-AC Apr 03* 670-676
- MIMO systems**
- doubly coprime fractional representations of gen. dynamical systs., results. *Zhi-Wei Gao*, +, *T-AC Feb 03* 299-303
- min.-phase syst. adaptive control, gain adaptation. *Ilchmann, A.*, +, *T-AC May 2003* 895-899
- nonlin. MIMO syst. output regulation solvability. *Jie Huang*, *T-AC May 2003* 880-885
- nonlin. MIMO syst. robust adaptive control with guaranteed error bounds. *Haojian Xu*, +, *T-AC May 2003* 728-742
- output feedback control, high-order sliding manifold approach. *Cavallo, A.*, +, *T-AC Mar 03* 469-472
- recursive nonlin. observer design, beyond uniform observability. *Hyungbo Shim*, +, *T-AC Feb 03* 294-298
- robust servomechanism problem for discrete-time LTI systs., perform. limitations. *Jemaa, L.B.*, +, *T-AC Aug 03* 1299-1311
- Minimax methods**
- constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
- param. estim. convergence in nonlin. parameterized systs.. *Chengyu Cao*, +, *T-AC Mar 03* 397-412
- Minimax techniques**
- min-max sliding-mode control for multimodel linear time varying systems. *Poznyak, A.S.*, +, *T-AC Dec 03* 2141-2150
- Minimization methods**
- call admission control for stat. MUX allocating link bandwidth, optim.. *Spitler, S.L.*, +, *T-AC Oct 03* 1830-1836
- Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M.*, +, *T-AC Jul 03* 1285-1292
- constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
- H_2 control with time-domain constraints, design. *Sznaier, M.*, +, *T-AC Mar 03* 355-368
- routing, constrained traffic equilib.. *El Azouzi, R.*, +, *T-AC Sep 03* 1656-1660
- Minimum entropy methods**
- tracking errors for dyn. stochastic systs.. *Hong Yue*, +, *T-AC Jan 03* 118-122
- Mobile robots**
- 1D asynchronous swarms, stabil. anal.. *Yang Liu*, +, *T-AC Oct 03* 1848-1854
- special sect. tech., correspondence, min-max model predictive control of nonlin. systs., discontinuous feedbacks. *Fontes, F.A.C.C.*, +, *T-AC Oct 03* 1750-1755
- Mobile robots; cf.** Legged locomotion
- Model reference adaptive control**
- fault-tolerant reconfigurable control, generalized internal model control. *Campos-Delgado, D.U.*, +, *T-AC May 2003* 832-839
- lin. state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M.*, +, *T-AC Sep 03* 1613-1619
- LTI syst. MRAC. *Miller, D.E.*, *T-AC May 2003* 743-757
- Monte Carlo methods**
- classical robustness margins, probabilistic enhanc.. *Lagoa, C.M.*, *T-AC Nov 03* 1990-1994
- probabilistic enhancement of classical robustness margins, a class of nonsymmetric distributions. *Lagoa, C.M.*, *T-AC Nov 03* 1990-1994
- Motion analysis**
- Pose estimation using line-based dynamic vision and inertial sensors. *Rehbinder, H.*, +, *T-AC Feb 03* 186-199
- well-posedness analysis of switch-driven piecewise affine systems. *Imura, J.-I.*, *T-AC Nov 03* 1926-1935
- Motion control**
- disturbance observers for second-order systs., robustness and perform.. *Youngjin Choi*, +, *T-AC Feb 03* 315-320
- Feedback can reduce the specification complexity of motor programs. *Egerstedt, M.B.*, +, *T-AC Feb 03* 213-223
- Motion-planning**
- Constructive controllability algms. for motion planning and optim.. *Cerven, W.T.*, +, *T-AC Apr 03* 575-589

M-theory

simultaneous pole placement of M discretetime plants using a M-periodic controller. *Das, S.K.*, +, *T-AC Nov 03* 2045-2050

Multidimensional systems

Constructive controllability algms. for motion planning and optim.. *Cerven, W.T.*, +, *T-AC Apr 03* 575-589

converging-input converging-state property, remark. *Sontag, E.D.*, *T-AC Feb 03* 313-314

dissipative bilinear distributed syst. output stabilization. *Bounit, H.*, +, *T-AC Mar 03* 479-483

Exact computation of traces and H^2 norms for class of infinite-dimens. problems. *Bamieh, B.*, +, *T-AC Apr 03* 646-649

robust stabil. for multidimensional array systs., struct. uncertainty anal.. *Gorinevsky, D.*, +, *T-AC Sep 03* 1557-1568

Stability anal. of swarms. *Gazi, V.*, +, *T-AC Apr 03* 692-697

Multisensor systems

Pose estimation using line-based dynamic vision and inertial sensors. *Rehbinder, H.*, +, *T-AC Feb 03* 186-199

Multi variable systems

decentralized relay-based multivariable proc. ident. in freq. domain. *Ya-Gang Wang*, +, *T-AC May 2003* 873-878

LMI-based switching surface design method for class of mismatched uncertain systs.. *Han Ho Choi*, *T-AC Sep 03* 1634-1638

LTI systs. subj., unanticipated extreme perturbations, self-tuning 3-term switching controllers, control. *Chang, M.H.*, +, *T-AC Nov 03* 1975-1985

output feedback control, high-order sliding manifold approach. *Cavallo, A.*, +, *T-AC Mar 03* 469-472

tracking sinusoidal sigs., fund. perform. limitations. *Weizhou Su*, +, *T-AC Aug 03* 1371-1380

Multivariable systems; cf. MIMO systems

N

Networks (circuits); cf. Phase locked loops; Telecommunication networks**Neural nets**

adaptive neural network control of nonlinear systems with unknown time delays. *Ge, S.S.*, +, *T-AC Nov 03* 1-NEED

new method for stability analysis of nonlinear discrete-time systems. *Barabanov, N.E.*, +, *T-AC Nov 03* 1908-1925

Neural nets; cf. Neurocontrollers; Recurrent neural nets**Neural networks**

delayed neural net global asymptotic stabil.. *Qiang Zhang*, +, *T-AC May 2003* 794-797

Markov decision procs. with delays and asynchronous cost collection. *Katsikopoulos, K.V.*, +, *T-AC Apr 03* 568-574

MIMO nonlin. syst. robust adaptive control with guaranteed error bounds. *Haojian Xu*, +, *T-AC May 2003* 728-742

Neurocontrollers

approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610

large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810

nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*, +, *T-AC Nov 03* 2004-2010

Newton method

Dynamic gradient approaches to compute the closest unstable equilibrium point for stability region estimate and their computational limitations. *Jaewook Lee*, *T-AC Feb 03* 321-324

Noise

coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2014

Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L.*, +, *T-AC Jul 03* 1259-1263

transfer function approach to quantum control part II, control concepts and applications. *Yanagisawa, M.*, +, *T-AC Dec 03* 2121-2132

Noise; cf. Quantum noise; Random noise**Nonlinear control systems**

book review; Impulsive Control in Continuous and Discrete-Continuous Systems (Miller, B.M. and Ya, E.). *Xu, X.*, *T-AC Dec 03* 2288-2289

coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2014

new directions on nonlinear control (special section). *T-AC Oct 03* 1681, 1684-1782

new directions on nonlinear control (special section intro.). *Baillieul, J.*, +, *T-AC Oct 03* 1681-1682

Nonlinear differential equations

global analysis of piecewise linear systems using impact maps and surface Lyapunov functions. *Goncalves, J.M.*, +, *T-AC Dec 03* 2089-2106

Nonlinear equations; cf. Nonlinear differential equations**Nonlinear estimation**

new block algorithm for full-rank solution of the sylvester-observer equation. *Carvalho, J.*, +, *T-AC Dec 03* 2223-2228

Nonlinear filters

Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W.*, +, *T-AC Feb 03* 224-235

DMZ eqn. in nonlin. filtering, explicit soln. via ODE. *Yau, S.S.-T.*, +, *T-AC Mar 03* 505-508

General two-stage extended Kalman filters. *Chien-Shu Hsieh*, *T-AC Feb 03* 289-293

Nonlinear programming; cf. Quadratic programming**Nonlinear systems**

Adaptive control with nonconvex parameterization. *Tyukin, I.Yu.*, +, *T-AC Apr 03* 554-567

adaptive neural network control of nonlinear systems with unknown time delays. *Ge, S.S.*, +, *T-AC Nov 03* 1-NEED

Adaptive suboptimal tracking for first-order plant with Lipschitz uncertainty. *Sokolov, V.F.*, *T-AC Apr 03* 607-612

Analysis and design of oscillatory control systs.. *Martinez, S.*, +, *T-AC Jul 03* 1164-1177

approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610

asymptotic algebraic observers, online exact differentiation/notion. *Ibrir, S.*, *T-AC Nov 03* 2055-2060

Asymptotic stabilization via output feedback for lower triangular systs. with output depend. incremental rate. *Praly, L.*, *T-AC Jun 03* 1103-1108

cascade systs., nonlin. parameterization via partial-state feedback, nonsmooth adaptive stabil.. *Wei Lin*, +, *T-AC Oct 03* 1809-1816

class of genuinely nonlin. systs., plane, nonsmooth output feedback stabil.. *Chunjiang Qian*, +, *T-AC Oct 03* 1824-1829

class of nonlin. systs., unstable internal dynamics, adaptive stabil.. *Zhengtao Ding*, *T-AC Oct 03* 1788-1792

composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties. *Dixon, W.E.*, +, *T-AC Sep 03* 1671-1672

composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties]. *Jian-Xin Xu*, +, *T-AC Sep 03* 1672-1674

Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V.*, +, *T-AC Feb 03* 246-258

controllability and local accessibility, normal form approach. *Wei Kang*, +, *T-AC Oct 03* 1724-1736

controllability of homog. systs. lin. in control. *Melody, J.*, +, *T-AC Jan 03* 139-143

coupled delay differential and continuous time difference eqns., stabil.. *Pepe, P.*, +, *T-AC Aug 03* 1422-1427

coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2015

Decentralized adaptive output regulation for a class of large-scale nonlinear systems. *Xudong Ye*, +, *T-AC Feb 03* 276-281

delay-depend. robust H_∞/L_2-L_∞ filtering for class of uncertain nonlin. time-delay systs.. *Huijun Gao*, +, *T-AC Sep 03* 1661-1666

delay nonlin. syst. stabilization, iter. procedure, comment. *Xinping Guan*, +, *T-AC May 2003* 907

delay nonlin. syst. state feedback stabilization, comment. *Guangwei Li*, +, *T-AC May 2003* 908

direct transformation of nonlinear systems into state affine MISO form for observer design. *Souleiman, I.*, +, *T-AC Dec 03* 2191-2196

discrete-time Hammerstein models, bounded output errors, param. bounds. *Cerone, V.*, +, *T-AC Oct 03* 1855-1860

discrete-time iter. learning control with syst. relative degree, init. shift issues. *Mingxuan Sun*, +, *T-AC Jan 03* 144-148

discrete-time systs. via restricted dyn. feedback, linearization. *Hong-Gi Lee*, +, *T-AC Sep 03* 1646-1650

- driftless systs., Lie groups, practical stabil.. *Morin, P.*, +, *T-AC Sep 03* 1496-1508
- Dynamic gradient approaches to compute the closest unstable equilibrium point for stability region estimate and their computational limitations. *Jaewook Lee*, *T-AC Feb 03* 321-324
- feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S.*, +, *T-AC Mar 03* 513-517
- Frequency domain ident. of Hammerstein models. *Er-Wei Bai*, *T-AC Apr 03* 530-542
- global adaptive control of nonlin. parameterized systs.. *Xudong Ye*, *T-AC Jan 03* 169-173
- Hamiltonian via feedback, from nonlin.. *Tabuada, P.*, +, *T-AC Aug 03* 1439-1442
- helicopter const. attitude maint., robust nonlin. motion control. *Isidori, A.*, +, *T-AC Mar 03* 413-426
- Identifiability of nonlinear systems with application to HIV/AIDS models. *Xia, X.*, +, *T-AC Feb 03* 330-336
- Immersion and invariance, new tool for stabilization and adaptive control of nonlin. syst s.. *Astolfi, A.*, +, *T-AC Apr 03* 590-606
- impulsive control systs., conditions for asymptotic stabil.. *Jitao Sun*, +, *T-AC May 2003* 829-831
- inherently nonlin. systs., nonlin. parameterization, adaptive output tracking. *Wei Lin*, +, *T-AC Oct 03* 1737-1749
- Input lin. of nonlin. systs. via pulse-width control. *Dogrue, M.*, *T-AC Apr 03* 635-638
- input-saturation lin. systs., composite nonlin. feedback control. *Chen, B.M.*, +, *T-AC Mar 03* 427-439
- Intrinsic observer for class of Lagrangian systs.. *Aghannan, N.*, +, *T-AC Jun 03* 936-945
- large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810
- limit sets, zero dynamics, internal models, problem of nonlin. output regulation. *Byrnes, C.I.*, +, *T-AC Oct 03* 1712-1723
- Lipschitz continuous autonomous systs., nonlin. observers. *Kreisselmeier, G.*, +, *T-AC Mar 03* 451-464
- Lyapunov fns., composite, quadratic, for constrained control systs.. *Tingshu Hu*, +, *T-AC Mar 03* 440-450
- Max-plus eigenvector representations for soln. of nonlin. H_∞ problems, basic concepts. *McEneaney, W.M.*, *T-AC Jul 03* 1150-1163
- MIMO nonlin. syst. output regulation solvability. *Jie Huang*, *T-AC May 2003* 880-885
- MIMO nonlin. syst. robust adaptive control with guaranteed error bounds. *Haojian Xu*, +, *T-AC May 2003* 728-742
- min.-phase syst. adaptive control, gain adaptation. *Ilchmann, A.*, +, *T-AC May 2003* 895-899
- Necessary conditions for almost global stabil.. *Monzon, P.*, *T-AC Apr 03* 631-634
- new method for stability analysis of nonlinear discrete-time systems. *Barabanov, N.E.*, +, *T-AC Nov 03* 1908-1925
- nonautonomous switched systs., extended invariance principle. *Orlov, Y.*, *T-AC Aug 03* 1448-1452
- nonlin. and underactuated mech. systs., hybrid switching control strategy. *Mingjun Zhang*, +, *T-AC Oct 03* 1777-1782
- Nonlinear discretetime observer design with lin. error dyn.. *MingQing Xiao*, +, *T-AC Apr 03* 622-626
- nonminimum phase systs., undershoot and settling time tradeoffs. *Lau, K.*, +, *T-AC Aug 03* 1389-1393
- nonregular feedback linearization, nonsmooth approach. *Zhendong Sun*, +, *T-AC Oct 03* 1772-1776
- Note on global output regulation of nonlin. systs. in output feedback form. *Qi Gong*, +, *T-AC Jun 03* 1049-1054
- param. estim. convergence in nonlin. parameterized systs.. *Chengyu Cao*, +, *T-AC Mar 03* 397-412
- parameterized interconnected ISS systs., discrete-time Lyapunov-based small-gain theorem. *Laila, D.S.*, +, *T-AC Oct 03* 1783-1788
- periodic sampled-data controllers for L_p disturbance rejection, perform. limitations. *Schmid, R.*, +, *T-AC Aug 03* 1385-1388
- P-normal forms of nonlin. systs.. *Daizhan Cheng*, +, *T-AC Jul 03* 1242-1248
- probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599
- quadratic nonlin. systs. set simul.. *Calafiore, G.*, *T-AC May 2003* 800-805
- range identification for perspective vision systems. *Dixon, W.E.*, +, *T-AC Dec 03* 2232-2238
- recursive identification of Hammerstein systems with discontinuous nonlinearities containing dead-zones. *Voros, J.*, *T-AC Dec 03* 2203-2206
- recursive nonlin. observer design, beyond uniform observability. *Hyungho Shim*, +, *T-AC Feb 03* 294-298
- repetitive control. *Lucibello, P.*, *T-AC Aug 03* 1470-1471
- repetitive control]. *Ghosh, J.*, +, *T-AC Aug 03* 1471
- Robust adaptive control of nonlin. systs. represented by input-output models. *Yusheng Liu*, +, *T-AC Jun 03* 1041-1045
- Robust control of nonlinear systems in the presence of unknown exogenous dynamics. *Zhihua Qu*, +, *T-AC Feb 03* 336-343
- Separation principle for class of non-UCO systs.. *Maggiore, M.*, +, *T-AC Jul 03* 1122-1133
- SISO lin. syst. param. convergence, sufficient conditions. *Jeng Tze Huang*, *T-AC May 2003* 878-880
- Solving quadratic distance problems: an LMI-based approach. *Chesi, G.*, +, *T-AC Feb 03* 200-212
- Some perspectives on anal. and control of complementarity systs.. *Brogliato, B.*, *T-AC Jun 03* 918-935
- special sect. tech., correspondence, min-max model predictive control of nonlin. systs., discontinuous feedbacks. *Fontes, F.A.C.C.*, +, *T-AC Oct 03* 1750-1755
- ?spl infin/-bounded robustness for nonlinear systems: Analysis and synthesis. *Huang, S.*, +, *T-AC Nov 03* 1875-1891
- L_∞ -multipliers for robust perform. anal.. *Tanimou, M.*, +, *T-AC Jun 03* 1016-1018
- Stability anal. for nonlin. feedback control systs. with lin. actuators. *Jian'an Fang*, +, *T-AC Apr 03* 649-654
- Stabilization of nonlin. systs. with moving equilibria. *Zecevic, A.I.*, +, *T-AC Jun 03* 1036-1040
- State feedback stabilization for a class of stochastic time-delay nonlinear systems. *Yusun Fu*, +, *T-AC Feb 03* 282-286
- Static sliding-motion phenom. in dyn. systs.. *Junger, I.B.*, +, *T-AC Apr 03* 680-686
- stochastic nonlin. syst. output feedback with risk-sensitive cost. *Yungang Liu*, +, *T-AC Mar 03* 509-513
- systs., anal. and synthesis, L_∞ -bounded robustness. *Shoudong Huang*, +, *T-AC Nov 03* 1875-1891
- systs., bounded nonlinearities, exponential stabil. and soln. bounds. *Zevin, A.*, +, *T-AC Oct 03* 1799-1804
- systs., pattern gener. and control. *Brockett, R.W.*, *T-AC Oct 03* 1699-1711
- systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*, +, *T-AC Nov 03* 2004-2010
- time-varying uncertain nonlin. systs., unknown control coeffs., robust adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469
- uncertain systs., nonlin. parameterization, adaptive and robust controls. *Zhihua Qu*, *T-AC Oct 03* 1817-1824
- Uniform asymptotic stability of hybrid dynamical systems with delay. *Rong Yuan*, +, *T-AC Feb 03* 344-348
- Universal disturbance rejection for nonlin. systs. in output feedback form. *Zhengtao Ding*, *T-AC Jul 03* 1222-1226
- Nonlinear systems; cf.** Bilinear systems; Nonlinear control systems
- Notch filters**
Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M.*, +, *T-AC Jul 03* 1285-1292
- Numerical analysis**
Orthogonal rational fns. for syst. ident., num. aspects. *Van gucht, P.*, +, *T-AC Apr 03* 705-709
- Numerical analysis; cf.** Approximation theory; Convergence of numerical methods; Curve fitting; Difference equations; Error analysis; Finite difference methods; Finite element analysis; Interpolation; Iterative methods; Monte Carlo methods
- Numerical control**
correction to "On the numerical computation in systems and control" (Nov 02 1786-1799). *Chu, D.*, +, *T-AC Jan 03* 174-176

O

Observability

- algebraic condition for controllability and observability of linear time-varying systems. *Leiva, H.*, +, *T-AC Dec 03* 2229-2232
- approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610
- asymptotic algebraic observers, online exact differentiation/notion. *Ibrir, S.*, *T-AC Nov 03* 2055-2060

- deciding co-observability is PSPACE-complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1998
- deciding coobservability, PSPACE -complete. *Rohloff, K.*, +, *T-AC Nov 03* 1995-1999
- Division controllers for homog. dyadic bilinear systs.. *Yean-Ren Hwang*, +, *T-AC Apr 03* 701-705
- Feedback can reduce the specification complexity of motor programs. *Egerstedt, M.B.*, +, *T-AC Feb 03* 213-223
- Finitetime behavior of inner systs.. *Ludlage, J.H.A.*, +, *T-AC Jul 03* 1134-1149
- lin. sing. systs. subj., decentralized output feedback, impulsive modes. *Runyi Yu*, +, *T-AC Oct 03* 1804-1809
- lin. systs., limited inform., stabil.. *Liberson, D.*, *T-AC Feb 03* 304-307
- LPV systs. and their appls., invariant subspaces. *Balas, G.*, +, *T-AC Nov 03* 2065-2069
- observability of linear stochastic uncertain systems. *Ugrinovskii, V.A.*, *T-AC Dec 03* 2264-2269
- Pose estimation using line-based dynamic vision and inertial sensors. *Rehbinder, H.*, +, *T-AC Feb 03* 186-199
- range identification for perspective vision systems. *Dixon, W.E.*, +, *T-AC Dec 03* 2232-2238
- recursive nonlin. observer design, beyond uniform observability. *Hyungbo Shim*, +, *T-AC Feb 03* 294-298
- Separation principle for class of non-UCO systs.. *Maggiore, M.*, +, *T-AC Jul 03* 1122-1133
- Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L.*, +, *T-AC Jul 03* 1259-1263
- T-liveness enforcing supervisors, Petri nets, design. *Iordache, M.V.*, +, *T-AC Nov 03* 1962-1974
- Observers**
- Asymptotic stabilization via output feedback for lower triangular systs. with output depend. incremental rate. *Praly, L.*, *T-AC Jun 03* 1103-1108
- Authors' reply, Comment on "A robust state observer scheme". *Da-Wei Gu*, +, *T-AC Jul 03* 1293-1294
- class of nonlin. systs., unstable internal dynamics, adaptive stabil.. *Zhengtao Ding*, *T-AC Oct 03* 1788-1792
- Comments on "A robust state observer scheme". *Boutayeb, M.*, +, *T-AC Jul 03* 1292-1293
- Controlled Markov chains with safety upper bound. *Arapostathis, A.*, +, *T-AC Jul 03* 1230-1234
- coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2015
- delay systs., finite-dimens. observers. *Fiagbedzi, Y.A.*, +, *T-AC Nov 03* 1986-1990
- discrete-event systs., partial obs., optimal sens. selection. *Shengbing Jiang*, +, *T-AC Mar 03* 369-381
- dissipative bilinear distributed syst. output stabilization. *Bounit, H.*, +, *T-AC Mar 03* 479-483
- disturbance observers for second-order systs., robustness and perform.. *Youngjin Choi*, +, *T-AC Feb 03* 315-320
- Example of GAS syst. which can be destabilized by integrable perturb.. *Sontag, E.D.*, +, *T-AC Jun 03* 1046-1049
- Intrinsic observer for class of Lagrangian systs.. *Aghannan, N.*, +, *T-AC Jun 03* 936-945
- Nonlinear discretetime observer design with lin. error dyn.. *MingQing Xiao*, +, *T-AC Apr 03* 622-626
- nonlin. observers for autonomous Lipschitz continuous systs.. *Kreisselmeier, G.*, +, *T-AC Mar 03* 451-464
- output regulation for linear systems via adaptive internal model. *Marino, R.*, +, *T-AC Dec 03* 2199-2202
- Pose estimation using line-based dynamic vision and inertial sensors. *Rehbinder, H.*, +, *T-AC Feb 03* 186-199
- recursive nonlin. observer design, beyond uniform observability. *Hyungbo Shim*, +, *T-AC Feb 03* 294-298
- Reduced-order solutions for the singular H^{∞} filtering problem. *Ariola, M.*, +, *T-AC Feb 03* 271-275
- Robust control of nonlinear systems in the presence of unknown exogenous dynamics. *Zhihua Qu*, +, *T-AC Feb 03* 336-343
- Simplified exponentially convergent rotor resistance estimation for induction motors. *Bartolini, G.*, +, *T-AC Feb 03* 325-330
- uncertain systs., nonlin. parameterization, adaptive and robust controls. *Zhihua Qu*, *T-AC Oct 03* 1817-1824
- Operating systems (computers); cf.** Supervisory programs
- Operations research; cf.** Scheduling; Traveling salesman problems
- Operators (math.)**
- stoch. control of unstable convolution operators, Z, intrinsic difficulties. *Makila, P.M.*, *T-AC Nov 03* 2015-2018
- Optical memories**
- disturbance observers for second-order systs., robustness and perform.. *Youngjin Choi*, +, *T-AC Feb 03* 315-320
- Optimal control**
- 2-pers. zero-sum Markov games, receding horizon approach. *Hyeong Soo Chang*, +, *T-AC Nov 03* 1951-1961
- Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V.*, +, *T-AC Feb 03* 246-258
- constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
- Constructive controllability algms. for motion planning and optim.. *Cerven, W.T.*, +, *T-AC Apr 03* 575-589
- control energy constraint, best tracking and regulation perform.. *Jie Chen*, +, *T-AC Aug 03* 1320-1336
- digital controller, finiteprecision, closed-loop stabil. measure. *Jun Wu*, +, *T-AC May 2003* 816-822
- discrete-time lin. syst. receding-horizon state estim.. *Alessandri, A.*, +, *T-AC Mar 03* 473-478
- Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X.*, +, *T-AC Feb 03* 236-245
- Existence and computation of infinite horizon model predictive control with act. steady-state input constraints. *Pannocchia, G.*, +, *T-AC Jun 03* 1002-1006
- Finitetime behavior of inner systs.. *Ludlage, J.H.A.*, +, *T-AC Jul 03* 1134-1149
- fluid net., side constraints, optimal control. *Yingdong Lu*, +, *T-AC Oct 03* 1865-1869
- Hamiltonian systs., iter. learning control. *Fujimoto, K.*, +, *T-AC Oct 03* 1756-1761
- min-max sliding-mode control for multimodel linear time varying systems. *Poznyak, A.S.*, +, *T-AC Dec 03* 2141-2150
- nonlin. systs., anal. and synthesis, l^{∞} -bounded robustness. *Shoudong Huang*, +, *T-AC Nov 03* 1875-1891
- Reduction of future inform. required for optimal control of dyn. systs., pseudostochastic model. *Herbon, A.*, +, *T-AC Jun 03* 1025-1029
- relatively optimal control and its linear implementation. *Blanchini, F.*, +, *T-AC Dec 03* 2151-2162
- robust perform., PID controller design. *Ming-Tzu Ho*, +, *T-AC Aug 03* 1404-1409
- ?spl infin/-bounded robustness for nonlinear systems: Analysis and synthesis. *Huang, S.*, +, *T-AC Nov 03* 1875-1891
- Optimal control; cf.** Cost optimal control; Singular optimal control; Suboptimal control; Time optimal control
- Optimization**
- optimization approach to matrix-valued Nevanlinna-Pick interpolation with complexity constraint. *Blomqvist, A.*, +, *T-AC Dec 03* 2172-2190
- two-person zero-sum Markov games, receding horizon approach. *Chang, H.S.*, +, *T-AC Nov 03* 1951-1961
- Optimization; cf.** Minimax techniques; Traveling salesman problems
- Optimization methods**
- 2-pers. zero-sum Markov games, receding horizon approach. *Hyeong Soo Chang*, +, *T-AC Nov 03* 1951-1961
- Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W.*, +, *T-AC Feb 03* 224-235
- DEDS perturb. anal., semi-Markov decision, sensitivity anal.. *Xi-Ren Cao*, *T-AC May 2003* 758-769
- discrete-event systs., partial obs., optimal sens. selection. *Shengbing Jiang*, +, *T-AC Mar 03* 369-381
- fault detect./isolation, game-theoretic approach to decision. *Darkhovski, B.*, +, *T-AC May 2003* 853-858
- no free lunch theorems, complexity, network security. *Yu-Chi Ho*, +, *T-AC May 2003* 783-793
- planar biped walkers, hybrid zero dyn.. *Westervelt, E.R.*, +, *T-AC Jan 03* 42-56
- simultaneous perturb. stoch. approx. for nondifferentiable optim., convergence. *Ying He*, +, *T-AC Aug 03* 1459-1463
- Solving quadratic distance problems: an LMI-based approach. *Chesi, G.*, +, *T-AC Feb 03* 200-212

Sparse kernel regression modeling using combined locally regularized orthogonal least sq. and D-optimality expt. design. *Chen, S., +, T-AC Jun 03* 1029-1036

Stability of data networks, optim.-based bandwidth allocation. *Heng-Qing Ye, T-AC Jul 03* 1238-1242

Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L., +, T-AC Jul 03* 1259-1263

sys. ident., binary sens.. *Le Yi Wang, +, T-AC Nov 03* 1892-1907

two-class stochastic fluid models for commun. network, perturb. anal.. *Cassandras, C.G., +, T-AC May 2003* 770-782

Output feedback

delay systs., finite-dimens. observers. *Fiagbedzi, Y.A., +, T-AC Nov 03* 1986-1990

M discrete-time plants, M-periodic controller, simultaneous pole placement. *Das, S.K., +, T-AC Nov 03* 2045-2050

nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S., +, T-AC Nov 03* 2004-2010

systs., single I/O delay, 2DOF controller parametrization. *Mirkin, L., +, T-AC Nov 03* 1999-2003

P

Packet switching

proportional rel., concurrent estim.. *Ishizaki, F., +, T-AC Oct 03* 1861-1865

telecom. networks, dyn. Cesaro-Wardrop equilibration. *Borkar, V.S., +, T-AC Mar 03* 382-396

Parameter estimation

Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M., +, T-AC Jul 03* 1285-1292

convergence of estim. in nonlin. parameterized systs.. *Chengyu Cao, +, T-AC Mar 03* 397-412

Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W., +, T-AC Feb 03* 224-235

discrete-time Hammerstein models, bounded output errors, param. bounds. *Cerone, V., +, T-AC Oct 03* 1855-1860

General two-stage extended Kalman filters. *Chien-Shu Hsieh, T-AC Feb 03* 289-293

lin. time-varying systs., known/unknown params., backstepping control. *Youping Zhang, +, T-AC Nov 03* 1908-1925

LTI syst. MRAC. *Müller, D.E., T-AC May 2003* 743-757

MIMO nonlin. syst. robust adaptive control with guaranteed error bounds. *Haojian Xu, +, T-AC May 2003* 728-742

Robust adaptive control of nonlin. systs. represented by input-output models. *Yusheng Liu, +, T-AC Jun 03* 1041-1045

Simplified exponentially convergent rotor resistance estimation for induction motors. *Bartolini, G., +, T-AC Feb 03* 325-330

sys. ident., binary sens.. *Le Yi Wang, +, T-AC Nov 03* 1892-1907

Parameter estimation; cf. Frequency estimation; Recursive estimation

Partial differential equations

Max-plus eigenvector representations for soln. of nonlin. H_∞ problems, basic concepts. *McEneaney, W.M., T-AC Jul 03* 1150-1163

MIMO nonlin. syst. output regulation solvability. *Jie Huang, T-AC May 2003* 880-885

Stochastic nonlinear minimax dynamic games with noisy measurements. *Charalambous, C.D., T-AC Feb 03* 261-266

Partial differential equations; cf. Poisson equation

Pattern recognition

new directions on nonlinear control (special section). *T-AC Oct 03* 1681, 1684-1782

new directions on nonlinear control (special section intro.). *Baillieul, J., +, T-AC Oct 03* 1681-1682

Performance evaluation

new developments and applications in performance limitation of feedback control (special section). *T-AC Aug 03* 1297, 1299-1398

new developments and applications in performance limitation of feedback control (special section intro.). *Chen, J., +, T-AC Aug 03* 1297

Periodic control

nonlin. periodic sampled-data controllers for L_p disturbance rejection, perform. limitations. *Schmid, R., +, T-AC Aug 03* 1385-1388

nonlin. systs., pattern gener. and control. *Brockett, R.W., T-AC Oct 03* 1699-1711

simultaneous pole placement of M discretetime plants using a M-periodic controller. *Das, S.K., +, T-AC Nov 03* 2045-2050

Perturbation methods

DEDS perturb. anal., semi-Markov decision, sensitivity anal.. *Xi-Ren Cao, T-AC May 2003* 758-769

two-class stochastic fluid models for commun. network, perturb. anal.. *Cassandras, C.G., +, T-AC May 2003* 770-782

Perturbation techniques; cf. Singularly perturbed systems

Petri nets

Algebraic model for perform. eval. of timed event multigraphs. *Huaping Dai, +, T-AC Jul 03* 1227-1230

asynchronous discrete-event syst. fault diagnosis, net unfolding. *Benveniste, A., +, T-AC May 2003* 714-727

design of T-liveness enforcing supervisors in Petri nets. *Iordache, M.V., +, T-AC Nov 03* 1962-1974

distrib. and concurrent systs., Markov nets, probabilistic models. *Benveniste, A., +, T-AC Nov 03* 1936-1950

feedback control logic for forbidden-state problems of marked graphs, real mfg. syst. appl.. *Ghaffari, A., +, T-AC Jan 03* 18-29

Markov nets, probabilistic models for distributed and concurrent systems. *Benveniste, A., +, T-AC Nov 03* 1936-1950

Reachability anal. in T-invariant-less Petri nets. *Kostin, A.E., T-AC Jun 03* 1019-1024

Sufficient condition for instabil. of buffer priority policies in re-entrant lines. *Chuang Lin, +, T-AC Jul 03* 1235-1238

supervisors enforcing general lin. constraints, Petri nets, synthesis. *Iordache, M.V., +, T-AC Nov 03* 2036-2039

synthesis of supervisors enforcing general linear constraints in Petri nets. *Iordache, M.V., +, T-AC Nov 03* 2036-2039

T-liveness enforcing supervisors, Petri nets, design. *Iordache, M.V., +, T-AC Nov 03* 1962-1974

Phase locked loops

Magnitude/PLL approach to param. estim. of periodic sigs.. *Biqing Wu, +, T-AC Apr 03* 612-618

Photoelectric devices; cf. Image sensors

Piecewise constant approximation

constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A., +, T-AC Sep 03* 1600-1606

scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F., +, T-AC Sep 03* 1569-1584

Piecewise constant techniques

well-posedness analysis of switch-driven piecewise affine systems. *Imura, J.-I., T-AC Nov 03* 1926-1935

Piecewise linear approximation

LQ regulators, reduced explicit constrained, piecewise lin. feedback. *Johansen, T.A., T-AC May 2003* 823-829

switch-driven piecewise affine systs., well-posedness anal.. *Jun-ichi Imura, T-AC Nov 03* 1926-1935

Piecewise linear techniques

global analysis of piecewise linear systems using impact maps and surface Lyapunov functions. *Goncalves, J.M., +, T-AC Dec 03* 2089-2106

Poincare mapping

global analysis of piecewise linear systems using impact maps and surface Lyapunov functions. *Goncalves, J.M., +, T-AC Dec 03* 2089-2106

Poisson equation

fluid queueing systems with strict priority. *Liu, Y., +, T-AC Dec 03* 2079-2088

Pole assignment

simultaneous pole placement of M discretetime plants using a M-periodic controller. *Das, S.K., +, T-AC Nov 03* 2045-2050

Poles and zeros

control perspective, dynamical syst. design. *Iwasaki, T., +, T-AC Aug 03* 1337-1354

general control config., fund. design limitations. *Freudenberg, J.S., +, T-AC Aug 03* 1355-1370

nonminimum phase systs., undershoot and settling time tradeoffs. *Lau, K., +, T-AC Aug 03* 1389-1393

variables for stabil. control, pole vectors, selection. *Havre, K., +, T-AC Aug 03* 1393-1398

Poles and zeros; cf. Pole assignment

Polynomial matrices

Hopf bifurcations in sing. perturbed systs.. *Yang, L., +, T-AC Apr 03* 660-664

- lin. sing. systs. subj., decentralized output feedback, impulsive modes. *Rumyi Yu, +, T-AC Oct 03* 1804-1809
- Polynomials**
Constructive controllability algms. for motion planning and optim.. *Cerven, W.T., +, T-AC Apr 03* 575-589
correction to "Necessary and sufficient conditions for root clustering of a polytope of polynomials in a simply connected domain". *Zeheb, E., T-AC Sep 03* 1674
Directional stabil. rad., stabil. anal. tool for uncertain polynomial systs.. *Kawabata, K., +, T-AC Jun 03* 1012-1015
ellipsoidal approximation of the stability domain of a polynomial. *Henrion, D., +, T-AC Dec 03* 2255-2259
interval systs., Routh-Pade model reduction. *Dolgin, Y., +, T-AC Sep 03* 1610-1612
M discrete-time plants, M-periodic controller, simultaneous pole placement. *Das, S.K., +, T-AC Nov 03* 2045-2050
Necessary conditions for real robust Schur-stability. *Batra, P., T-AC Feb 03* 259-261
planar biped walkers, hybrid zero dyn.. *Westervelt, E.R., +, T-AC Jan 03* 42-56
Positive polynomials and robust stabilization with fixed-order controllers. *Henrion, D., +, T-AC Jul 03* 1178-1186
robust perform., PID controller design. *Ming-Tzu Ho, +, T-AC Aug 03* 1404-1409
Solving quadratic distance problems: an LMI-based approach. *Chesi, G., +, T-AC Feb 03* 200-212
- Polynomials; cf.** Polynomial matrices
- Popov criterion**
 L_∞ -multipliers for robust perform. anal.. *Tanimou, M., +, T-AC Jun 03* 1016-1018
- Position control**
coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J., +, T-AC Nov 03* 2011-2015
nonautonomous switched systs., extended invariance principle. *Orlov, Y., T-AC Aug 03* 1448-1452
- Power control**
wireless network power control, S-modular games. *Altman, E., +, T-AC May 2003* 839-842
- Power system control**
dissipative Hamiltonian realization and energy -based L_2 -disturbance atten. control of multimachine power systs.. *Yuzhen Wang, +, T-AC Aug 03* 1428-1433
- Power systems; cf.** Power system control; Power system stability
- Power system stability**
dissipative Hamiltonian realization and energy -based L_2 -disturbance atten. control of multimachine power systs.. *Yuzhen Wang, +, T-AC Aug 03* 1428-1433
- Prediction theory**
new block algorithm for full-rank solution of the sylvester-observer equation. *Carvalho, J., +, T-AC Dec 03* 2223-2228
stable prediction for unstable independent models. *Rossiter, J.A., T-AC Nov 03* 2029-2035
- Predictive control**
constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A., +, T-AC May 2003* 810-815
Existence and computation of infinite horizon model predictive control with act. steady-state input constraints. *Pannocchia, G., +, T-AC Jun 03* 1002-1006
Finitetime behavior of inner systs.. *Ludlage, J.H.A., +, T-AC Jul 03* 1134-1149
General interpolation in MPC and advantages. *Bacic, M., +, T-AC Jun 03* 1092-1096
sampled-data syst. H_∞ control/ discretization, open problem. *Mirkin, L., +, T-AC May 2003* 891-894
SISO bilinear systs., constrained control. *Bacic, M., +, T-AC Aug 03* 1443-1447
special sect. tech., correspondence, min-max model predictive control of nonlin. systs., discontinuous feedbacks. *Fontes, F.A.C.C., +, T-AC Oct 03* 1750-1755
Standard H_∞ control of procs. with, single delay. *Qing-Chang Zhong, T-AC Jun 03* 1097-1103
unstable independent models, stable predict.. *Rossiter, J.A., T-AC Nov 03* 2029-2035
- Probabilistic**
probabilistic enhancement of classical robustness margins, a class of nonsymmetric distributions. *Lagoa, C.M., T-AC Nov 03* 1990-1994
- Probability**
Controlled Markov chains with safety upper bound. *Arapostathis, A., +, T-AC Jul 03* 1230-1234
distrib. and concurrent systs., Markov nets, probabilistic models. *Benveniste, A., +, T-AC Nov 03* 1936-1950
Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X., +, T-AC Feb 03* 236-245
Markov nets, probabilistic models for distributed and concurrent systems. *Benveniste, A., +, T-AC Nov 03* 1936-1950
nonlin. filtering, DMZ eqn. explicit soln. via ODE. *Yau, S.S.-T., +, T-AC Mar 03* 505-508
nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S., +, T-AC Sep 03* 1585-1599
optimal Markovian target search, infinite-horizon case. *Singh, S., +, T-AC Mar 03* 493-497
stochastic nonlin. syst. output feedback with risk -sensitive cost. *Yungang Liu, +, T-AC Mar 03* 509-513
uncertain Markovian jump delay syst. robust H^∞ filtering. *Shengyuan Xu, +, T-AC May 2003* 900-907
Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang, +, T-AC Jul 03* 1254-1258
- Process control**
Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W., +, T-AC Feb 03* 224-235
- Project engineering; cf.** Scheduling
- Proportional control**
doubly coprime fractional representations of gen. dynamical systs., results. *Zhi-Wei Gao, +, T-AC Feb 03* 299-303
LTI systs. subj., unanticipated extreme perturbations, self-tuning 3-term switching controllers, control. *Chang, M.H., +, T-AC Nov 03* 1975-1985
New approach to digital PID controller design. *Keel, L.H., +, T-AC Apr 03* 687-692
robust perform., PID controller design. *Ming-Tzu Ho, +, T-AC Aug 03* 1404-1409
robust PI controller design satisfying sensitivity and uncertainty specifications. *Yaniv, O., +, T-AC Nov 03* 2069-2072
stabil. and controller robustness of popular PID tuning rules. *Silva, G.J., +, T-AC Sep 03* 1638-1641
walking motions of planar biped walkers, switching and PI control. *Westervelt, E.R., +, T-AC Feb 03* 308-312
- Protocols; cf.** Access protocols; Transport protocols
- Publishing**
list of reviewers for 2002. *T-AC May 2003* 909-913

Q

Quadratic programming

H_2 control with time-domain constraints, design. *Sznaier, M., +, T-AC Mar 03* 355-368

Quantization

joint optim. of commun. rates and lin. systs.. *Lin Xiao, +, T-AC Jan 03* 148-153
scalar lin. systs., quantized feedback, stabil. anal. and synthesis. *Fagnani, F., +, T-AC Sep 03* 1569-1584

Quantum noise

transfer function approach to quantum control part II, control concepts and applications. *Yanagisawa, M., +, T-AC Dec 03* 2121-2132

Quantum theory

controllability for bilinear multilevel quantum systs., notions. *Albertini, F., +, T-AC Aug 03* 1399-1403
transfer function approach to quantum control part I, dynamics of quantum feedback systems. *Yanagisawa, M., +, T-AC Dec 03* 2107-2120

Quantum theory; cf. Quantum noise**Queueing analysis**

call blending, call centers, queueing model. *Bhulai, S., +, T-AC Aug 03* 1434-1438
Drift and monotonicity conditions for continuous-time controlled Markov chains with an average criterion. *Guo, X., +, T-AC Feb 03* 236-245

proportional rel., concurrent estim.. *Ishizaki, F.*, +, *T-AC Oct 03* 1861-1865

stable, scalable, fair congestion control and AQM schemes achieve high utilization, Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028

Queueing theory

fluid queueing systems with strict priority. *Liu, Y.*, +, *T-AC Dec 03* 2079-2088

R

Radiofrequency interference; cf. White noise

Random noise

probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599

Random noise; cf. White noise

Random processes

book review; Linear Estimation (Kailath, T., et al.; 2000). *Mitter, S.K.*, *T-AC Jan 03* 177-180

Random processes; cf. Queueing theory

Reachability analysis

Reachability anal. in T-invariant-less Petri nets. *Kostin, A.E.*, *T-AC Jun 03* 1019-1024

Realization theory

digital controller, finite-precision, closed-loop stabil. measure. *Jun Wu*, +, *T-AC May 2003* 816-822

Real time systems

dyn. props. of hybrid automata. *Lygeros, J.*, +, *T-AC Jan 03* 2-17

Reduced supervisors for timed discrete-event systs.. *Gohari, P.*, +, *T-AC Jul 03* 1187-1198

Recurrent neural nets

new method for stability analysis of nonlinear discrete-time systems. *Barabanov, N.E.*, +, *T-AC Nov 03* 1908-1925

Recursive estimation

discrete systs., recursive estim. methods. *Kueiming Lo*, +, *T-AC Nov 03* 2019-2023

recursive estimation methods for discrete systems. *Lo, K.*, +, *T-AC Nov 03* 2019-2023

recursive identification of Hammerstein systems with discontinuous nonlinearities containing dead-zones. *Voros, J.*, *T-AC Dec 03* 2203-2206

Recursive functions

recursive estimation methods for discrete systems. *Lo, K.*, +, *T-AC Nov 03* 2019-2023

Reduced order systems

Controllability of nonstandard sing. perturbed systs. with small state delay. *Glizer, V.Y.*, *T-AC Jul 03* 1280-1285

Fault diagnosis in discrete-event systs., framework and model reduction. *Zad, S.H.*, +, *T-AC Jul 03* 1199-1212

interval systs., Routh-Pade model reduction. *Dolgin, Y.*, +, *T-AC Sep 03* 1610-1612

Reduced-order solutions for the singular H^{∞} filtering problem. *Ariola, M.*, +, *T-AC Feb 03* 271-275

Semiglobal stabilization and output regulation of sing. lin. systs. with input saturation. *Weiyao Lan*, +, *T-AC Jul 03* 1274-1280

Redundancy

Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W.*, +, *T-AC Feb 03* 224-235

Reflectometry

Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W.*, +, *T-AC Feb 03* 224-235

Regulation

output regulation for linear systems via adaptive internal model. *Marino, R.*, +, *T-AC Dec 03* 2199-2202

Relay control systems

decentralized relay-based multivariable proc. ident. in freq. domain. *Ya-Gang Wang*, +, *T-AC May 2003* 873-878

Reliability; cf. Fault tolerance

Resists

Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W.*, +, *T-AC Feb 03* 224-235

Resource management

joint optim. of commun. rates and lin. systs.. *Lin Xiao*, +, *T-AC Jan 03* 148-153

Sufficient condition for instabil. of buffer priority policies in re-entrant lines. *Chuang Lin*, +, *T-AC Jul 03* 1235-1238

Reviews

Linear Estimation (Kailath, T., et al.; 2000). *Mitter, S.K.*, *T-AC Jan 03* 177-180

Riccati equations

Asymptotic stabilization via output feedback for lower triangular systs. with output depend. incremental rate. *Praly, L.*, *T-AC Jun 03* 1103-1108

continuous Riccati matrix eqn., soln. bounds. *Chien-Hua Lee*, *T-AC Aug 03* 1409-1413

Existence and uniqueness of open-loop Nash equilibria in linear-quadratic discrete time games. *Jank, G.*, +, *T-AC Feb 03* 267-271

finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842

LQ differential game, Nash alg. Riccati eqns., eigenvectors. *Engwerda, J.C.*, *T-AC May 2003* 847-852

nonlin. syst. feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S.*, +, *T-AC Mar 03* 513-517

Standard H_{∞} control of procs. with, single delay. *Qing-Chang Zhong*, *T-AC Jun 03* 1097-1103

switched lin. systs., RMS gains. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2045

Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang*, +, *T-AC Jul 03* 1254-1258

Risk management

probabilistic enhancement of classical robustness margins, a class of nonsymmetric distributions. *Lagoa, C.M.*, *T-AC Nov 03* 1990-1994

RLC circuits

power shaping paradigm for stabilization of nonlinear RLC circuits. *Ortega, R.*, +, *T-AC Oct 03* 1762-1767

Robots; cf. Manipulators; Mobile robots

Robust control

corrections to "Robust H_{∞} control for linear discrete-time systems with norm-bounded nonlinear uncertainties" (Jan 99 108-111). *Ghosh, J.*, +, *T-AC Aug 03* 1471-1472

correction to "Robust D-stability for linear uncertain discrete time-delay systems" (Feb 94 425-439). *Su, T.-J.*, +, *T-AC Apr 03* 709

design of robust controllers for arbitrary uncertainty structures. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2064

invariant subspaces for LPV systems and their applications. *Balas, G.*, +, *T-AC Nov 03* 2065-2068

new directions on nonlinear control (special section). *T-AC Oct 03* 1681, 1684-1782

new directions on nonlinear control (special section intro.). *Baillieul, J.*, +, *T-AC Oct 03* 1681-1682

output-feedback model-reference sliding mode control of uncertain multivariable systems. *Cunha, J.P.V.S.*, +, *T-AC Dec 03* 2245-2250

probabilistic enhancement of classical robustness margins, a class of nonsymmetric distributions. *Lagoa, C.M.*, *T-AC Nov 03* 1990-1994

robust PI controller design satisfying sensitivity and uncertainty specifications. *Yaniv, O.*, +, *T-AC Nov 03* 2069-2072

?spl infin/-bounded robustness for nonlinear systems: Analysis and synthesis. *Huang, S.*, +, *T-AC Nov 03* 1875-1891

Robustness

Additional dyn. for general class of time-delay systs.. *Kharitonov, V.*, +, *T-AC Jun 03* 1060-1063

Approach to ident. for robust control. *Gugercin, S.*, +, *T-AC Jun 03* 1109-1115

Asymptotic stabilization via output feedback for lower triangular systs. with output depend. incremental rate. *Praly, L.*, *T-AC Jun 03* 1103-1108

chained systs. via hybrid control, robust stabil.. *Prieur, C.*, +, *T-AC Oct 03* 1768-1772

classical robustness margins, probabilistic enhanc.. *Lagoa, C.M.*, *T-AC Nov 03* 1990-1994

constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606

controllers for arbitrary uncertainty structs., design. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2065

Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay systs.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217

delay systs., uncertain, param.-depend. stabil./stabilization. *Fridman, E.*, +, *T-AC May 2003* 861-866

discrete-time iter. learning control with syst. relative degree, init. shift issues. *Mingxuan Sun*, +, *T-AC Jan 03* 144-148

- disturbance observers for second-order systs., robustness and perform..
Youngjin Choi, +, *T-AC Feb 03* 315-320
- fault-tolerant reconfigurable control, generalized internal model control.
Campos-Delgado, D.U., +, *T-AC May 2003* 832-839
- global exponential stabil. of uncertain chained systs., switching algm..
Zairong Xi, +, *T-AC Oct 03* 1793-1798
- helicopter const. attitude maint., robust nonlin. motion control. *Isidori, A.*,
+, *T-AC Mar 03* 413-426
- H_2/H_∞ static robust feedback control, lin. param. depend. design. *Shaked,*
U., *T-AC May 2003* 866-872
- H_∞ filtering of lin. systs. with time-varying delay. *Fridman, E.*, +, *T-AC*
Jan 03 159-165
- improved LMI representations for anal. and design of continuous-time
systs., polytopic type uncertainty, alternative proofs. *Yingmin Jia*, *T-AC*
Aug 03 1413-1416
- inherently nonlin. systs., nonlin. parameterization, adaptive output
tracking. *Wei Lin*, +, *T-AC Oct 03* 1737-1749
- integral procs. control with dead time, deadbeat disturbance response.
Qing-Chang Zhong, *T-AC Jan 03* 153-159
- lin. time-varying systs., known/unknown params., backstepping control.
Youping Zhang, +, *T-AC Nov 03* 1908-1925
- LMI-based approach for robust stabilization of uncertain stochastic
systems with time-varying delays. *Chien-Yu Lu*, +, *T-AC Feb 03* 286-
289
- LPV systs. and their appls., invariant subspaces. *Balas, G.*, +, *T-AC Nov*
03 2065-2069
- LTI systs. subj., unanticipated extreme perturbations, self-tuning 3-term
switching controllers, control. *Chang, M.H.*, +, *T-AC Nov 03* 1975-
1985
- MIMO nonlin. syst. robust adaptive control with guaranteed error bounds.
Haojian Xu, +, *T-AC May 2003* 728-742
- nonlin. and underactuated mech. systs., hybrid switching control strategy.
Mingjun Zhang, +, *T-AC Oct 03* 1777-1782
- nonlin. repetitive control. *Lucibello, P.*, *T-AC Aug 03* 1470-1471
- nonlin. systs., anal. and synthesis, l_∞ -bounded robustness. *Shoudong*
Huang, +, *T-AC Nov 03* 1875-1891
- nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*,
+, *T-AC Nov 03* 2004-2010
- output feedback control, high-order sliding manifold approach. *Cavallo,*
A., +, *T-AC Mar 03* 469-472
- parameterized interconnected ISS systs., discrete-time Lyapunov-based
small-gain theorem. *Laila, D.S.*, +, *T-AC Oct 03* 1783-1788
- perform., PID controller design. *Ming-Tzu Ho*, +, *T-AC Aug 03* 1404-
1409
- PI controller design satisfying sensitivity and uncertainty specs.. *Yaniv, O.*,
+, *T-AC Nov 03* 2069-2072
- Positive polynomials and robust stabilization with fixed-order controllers.
Henrion, D., +, *T-AC Jul 03* 1178-1186
- Robust adaptive control of nonlin. systs. represented by input-output
models. *Yusheng Liu*, +, *T-AC Jun 03* 1041-1045
- Robust control of nonlinear systems in the presence of unknown
exogenous dynamics. *Zhihua Qu*, +, *T-AC Feb 03* 336-343
- robust iter. learning control design for uncertain LTI systs. satisfying
robust perform. condition. *Tayebi, A.*, +, *T-AC Jan 03* 101-106
- Robust sliding-mode control for uncertain time-delay systs., LMI
approach. *Yuanqing Xia*, +, *T-AC Jun 03* 1086-1091
- servomechanism problem for discrete-time LTI systs., perform.
limitations. *Jemaa, L.B.*, +, *T-AC Aug 03* 1299-1311
- sliding-mode control design for complex valued sliding manifold. *Shepit,*
B.M., +, *T-AC Jan 03* 122-127
- Solving quadratic distance problems: an LMI-based approach. *Chesi, G.*,
+, *T-AC Feb 03* 200-212
- Some perspectives on anal. and control of complementarity systs..
Brogliato, B., *T-AC Jun 03* 918-935
- special sect. tech., correspondence, min-max model predictive control of
nonlin. systs., discontinuous feedbacks. *Fontes, F.A.C.C.*, +, *T-AC Oct*
03 1750-1755
- L_∞ -multipliers for robust perform. anal.. *Tanimou, M.*, +, *T-AC Jun 03*
1016-1018
- stabil. for multidimensional array systs., struct. uncertainty anal..
Gorinevsky, D., +, *T-AC Sep 03* 1557-1568
- stabil. of uncertain stoch. systs., time-varying delays, LMI-based
approach. *Huijun Gao*, +, *T-AC Nov 03* 2073-2074
- structurally stable regulation, stabil. loss. *Maitripala, D.H.S.*, +, *T-AC*
Mar 03 483-486
- switched lin. systs., RMS gains. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2045
- systs., bounded nonlinearities, exponential stabil. and soln. bounds. *Zevin,*
A., +, *T-AC Oct 03* 1799-1804
- time-varying uncertain nonlin. systs., unknown control coeffs., robust
adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469
- uncertain systs., nonlin. parameterization, adaptive and robust controls.
Zhihua Qu, *T-AC Oct 03* 1817-1824
- worst-case approx. of feasible syst. sets via orthonormal basis fns.. *Casini,*
M., +, *T-AC Jan 03* 96-101
- Roundoff errors**
digital controller, finite-precision, closed-loop stabil. measure. *Jun Wu*, +,
T-AC May 2003 816-822
- Intersample and finite wordlength effects in sampled-data problems.
Bamieh, B., *T-AC Apr 03* 639-643
- S**
- Safety**
Controlled Markov chains with safety upper bound. *Arapostathis, A.*, +,
T-AC Jul 03 1230-1234
- Sampled data systems**
Frequency domain ident. of Hammerstein models. *Er-Wei Bai*, *T-AC Apr*
03 530-542
- H_∞ control/ discretization, open problem. *Mirkin, L.*, +, *T-AC May 2003*
891-894
- Intersample and finite wordlength effects in sampled-data problems.
Bamieh, B., *T-AC Apr 03* 639-643
- lin. systs., limited inform., stabil.. *Liberzon, D.*, *T-AC Feb 03* 304-307
- nonlin. periodic sampled-data controllers for l_p disturbance rejection,
perform. limitations. *Schmid, R.*, +, *T-AC Aug 03* 1385-1388
- switch-driven piecewise affine systs., well-posedness anal.. *Jun-ichi*
Imura, *T-AC Nov 03* 1926-1935
- Uniform asymptotic stability of hybrid dynamical systems with delay.
Rong Yuan, +, *T-AC Feb 03* 344-348
- Scheduling**
Sufficient condition for instabil. of buffer priority policies in re-entrant
lines. *Chuang Lin*, +, *T-AC Jul 03* 1235-1238
- Search methods**
optimal Markovian target search, infinite-horizon case. *Singh, S.*, +, *T-AC*
Mar 03 493-497
- Search problems; cf. Tree searching**
- Sensitivity**
DEDS perturb. anal., semi-Markov decision, sensitivity anal.. *Xi-Ren Cao*,
T-AC May 2003 758-769
- general control config., fund. design limitations. *Freudenberg, J.S.*, +, *T-AC*
Aug 03 1355-1370
- random refs., tracking. *Yongsoo Eun*, +, *T-AC Sep 03* 1666-1671
- Sensors**
system identification using binary sensors. *Le Wang, Y.*, +, *T-AC Nov 03*
1892-1907
- Sensors; cf. Image sensors**
- Sequential machines**
Control of asynchronous machines with races. *Murphy, T.E.*, +, *T-AC Jun*
03 1073-1081
- Series (mathematics)**
Constructive controllability algms. for motion planning and optim..
Cerven, W.T., +, *T-AC Apr 03* 575-589
- Servomechanisms**
range identification for perspective vision systems. *Dixon, W.E.*, +, *T-AC*
Dec 03 2232-2238
- Servosystems**
random refs., tracking. *Yongsoo Eun*, +, *T-AC Sep 03* 1666-1671
- robust servomechanism problem for discrete-time LTI systs., perform.
limitations. *Jemaa, L.B.*, +, *T-AC Aug 03* 1299-1311
- Set theory**
doubly coprime fractional representations of gen. dynamical systs., results.
Zhi-Wei Gao, +, *T-AC Feb 03* 299-303
- Signaling**
book reviews; Structure and Interpretation of Signals and Systems (Lee,
E.A and Varaiya, P.; 2003). *Cao, X-R.*, +, *T-AC Aug 03* 1472-1474
- Signal processing**
book reviews; Structure and Interpretation of Signals and Systems (Lee,
E.A and Varaiya, P.; 2003). *Cao, X-R.*, +, *T-AC Aug 03* 1472-1474
- book reviews; Structure and Interpretation of Signals and Systems (Lee,
E.A. and Varaiya, P.; 2003). *Xi-Ren Cao*, +, *T-AC Sep 03* 1676-1678

- joint optim. of commun. rates and lin. systs.. *Lin Xiao, +, T-AC Jan 03* 148-153
- random refs., tracking. *Yongsoon Eun, +, T-AC Sep 03* 1666-1671
- sys. ident., binary sens.. *Le Yi Wang, +, T-AC Nov 03* 1892-1907
- Signal processing; cf.** Convolution; Signal representation
- Signal representation**
- book reviews; Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Cao, X-R., +, T-AC Aug 03* 1472-1474
- Signals**
- book reviews; Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Xi-Ren Cao, +, T-AC Sep 03* 1676-1678
- Simulation**
- quadratic nonlin. sy sts. set simul.. *Calafiore, G., T-AC May 2003* 800-805
- Singularly perturbed systems**
- Controllability of nonstandard sing. perturbed systs. with small state delay. *Glizer, V.Y., T-AC Jul 03* 1280-1285
- Hopf bifurcations in sing. perturbed systs.. *Yang, L., +, T-AC Apr 03* 660-664
- input-to-state stabil., systs., 2 time scales, unified framework. *Teel, A.R., +, T-AC Sep 03* 1526-1544
- Singular optimal control**
- Reduced-order solutions for the singular H^{∞} filtering problem. *Ariola, M., +, T-AC Feb 03* 271-275
- Singular value decomposition**
- LQ regulators, reduced explicit constrained, piecewise lin. feedback. *Johansen, T.A., T-AC May 2003* 823-829
- Smoothing methods**
- sampled-data syst. H_{∞} control/ discretization, open problem. *Mirkin, L., +, T-AC May 2003* 891-894
- Space vehicles**
- coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise. *Thienel, J., +, T-AC Nov 03* 2011-2014
- coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J., +, T-AC Nov 03* 2011-2015
- Rotational motion control of spacecraft. *Wisniewski, R., +, T-AC Apr 03* 643-646
- Spatial variables control; cf.** Attitude control; Motion control; Position control
- Special issues and sections**
- new developments and applications in performance limitation of feedback control (special section). *T-AC Aug 03* 1297, 1299-1398
- new developments and applications in performance limitation of feedback control (special section intro.). *Chen, J., +, T-AC Aug 03* 1297
- new directions on nonlinear control (special section). *T-AC Oct 03* 1681, 1684-1782
- new directions on nonlinear control (special section intro.). *Baillieul, J., +, T-AC Oct 03* 1681-1682
- Spectral analysis**
- optimization approach to matrix-valued Nevanlinna-Pick interpolation with complexity constraint. *Blomqvist, A., +, T-AC Dec 03* 2172-2190
- Sputter etching**
- Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W., +, T-AC Feb 03* 224-235
- Sputtering; cf.** Sputter etching
- Stability**
- 1D asynchronous swarms, stabil. anal.. *Yang Liu, +, T-AC Oct 03* 1848-1854
- actuator amplit./rate saturation, local stabilization. *Gomes da Silva, J.M., Jr., +, T-AC May 2003* 842-847
- Analysis and design of oscillatory control systs.. *Martinez, S., +, T-AC Jul 03* 1164-1177
- Anantharam's example, controller parameterization. *Mori, K., T-AC Sep 03* 1655-1656
- Authors' reply, Comment on "A robust state observer scheme". *Da-Wei Gu, +, T-AC Jul 03* 1293-1294
- BIBO stabilization of stochastic delay systs. with uncertainty. *Yuli Fu, +, T-AC Jan 03* 133-138
- cascade systs., nonlin. parameterization via partial-state feedback, nonsmooth adaptive stabil.. *Wei Lin, +, T-AC Oct 03* 1809-1816
- class of genuinely nonlin. systs., plane, nonsmooth output feedback stabil.. *Chunjiang Qian, +, T-AC Oct 03* 1824-1829
- Comments on "A robust state observer scheme". *Boutayeb, M., +, T-AC Jul 03* 1292-1293
- common quadratic Lyapunov fns.. *Shorten, R., +, T-AC Jan 03* 110-113
- Common quadratic Lyapunov fns. for pairs of stable LTI systs. whose syst. matrices are in companion form. *Shorten, R.N., +, T-AC Apr 03* 618-621
- Control Systems with Actuator Saturation: Analysis and Design. *Liu, D., T-AC Jun 03* 1116-1117
- correction to "Robust D-stability for linear uncertain discrete time-delay systems" (Feb 94 425-439). *Su, T.-J., +, T-AC Apr 03* 709
- Decentralized adaptive output regulation for a class of large-scale nonlinear systems. *Xudong Ye, +, T-AC Feb 03* 276-281
- delay-depend. robust $H_{\infty}/L_2-L_{\infty}$ filtering for class of uncertain nonlin. time-delay systs.. *Huijun Gao, +, T-AC Sep 03* 1661-1666
- delay nonlin. syst. stabilization, iter. procedure, comment. *Xinping Guan, +, T-AC May 2003* 907
- delay nonlin. syst. state feedback stabilization, comment. *Guangwei Li, +, T-AC May 2003* 908
- digital controller, finite-precision, closed-loop stabil. measure. *Jun Wu, +, T-AC May 2003* 816-822
- discrete-time lin. syst. receding-horizon state estim.. *Alessandri, A., +, T-AC Mar 03* 473-478
- discrete-time syst. stabilization by 1st-order controllers. *Tantaris, R.N., +, T-AC May 2003* 858-860
- dissipative bilinear distributed syst. output stabilization. *Bounit, H., +, T-AC Mar 03* 479-483
- doubly coprime fractional representations of gen. dynamical systs., results. *Zhi-Wei Gao, +, T-AC Feb 03* 299-303
- Dynamic gradient approaches to compute the closest unstable equilibrium point for stability region estimate and their computational limitations. *Jaewook Lee, T-AC Feb 03* 321-324
- dyn. props. of hybrid automata. *Lygeros, J., +, T-AC Jan 03* 2-17
- ellipsoidal approximation of the stability domain of a polynomial. *Henrion, D., +, T-AC Dec 03* 2255-2259
- finite spectrum assignment of unstable time-delay systems with a safe implementation. *Mondie, S., +, T-AC Dec 03* 2207-2212
- global adaptive control of nonlin. parametrized systs.. *Xudong Ye, T-AC Jan 03* 169-173
- Hopf bifurcations in sing. perturbed systs.. *Yang, L., +, T-AC Apr 03* 660-664
- integral procs. control with dead time, deadbeat disturbance response. *Qing-Chang Zhong, T-AC Jan 03* 153-159
- interval syst s., Routh-Pade model reduction. *Dolgin, Y., +, T-AC Sep 03* 1610-1612
- lin. state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M., +, T-AC Sep 03* 1613-1619
- lin. systs., presence of meas. constraint, semiglobal regulation. *Marconi, L., T-AC Aug 03* 1417-1421
- lin. systs. with uncertain delay. *Kharitonov, V.L., +, T-AC Jan 03* 127-132
- M-dimens. asynchronous swarms with, fixed commun. topol.. *Yang Liu, +, T-AC Jan 03* 76-95
- M discrete-time plants, M-periodic controller, simultaneous pole placement. *Das, S.K., +, T-AC Nov 03* 2045-2050
- min.-phase syst. adaptive control, gain adaptation. *Ilchmann, A., +, T-AC May 2003* 895-899
- Necessary conditions for real robust Schur-stability. *Batra, P., T-AC Feb 03* 259-261
- new method for stability analysis of nonlinear discrete-time systems. *Barabanov, N.E., +, T-AC Nov 03* 1908-1925
- nonlin. periodic sampled-data controllers for L_p disturbance rejection, perform. limitations. *Schmid, R., +, T-AC Aug 03* 1385-1388
- nonlin. repetitive control]. *Ghosh, J., +, T-AC Aug 03* 1471
- nonlin. syst. feedback stabilization, state-depend. Riccati eqn.. *Shamma, J.S., +, T-AC Mar 03* 513-517
- nonlin. systs., pattern gener. and control. *Brockett, R.W., T-AC Oct 03* 1699-1711
- output-feedback model-reference sliding mode control of uncertain multivariable systems. *Cunha, J.P.V.S., +, T-AC Dec 03* 2245-2250
- param. estim. convergence in nonlin. parameterized systs.. *Chengyu Cao, +, T-AC Mar 03* 397-412
- polytopic uncertain syst. robust D-stabil., LMI condition. *Leite, V.J.S., +, T-AC Mar 03* 500-504
- Positive polynomials and robust stabilization with fixed-order controllers. *Henrion, D., +, T-AC Jul 03* 1178-1186
- probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S., +, T-AC Sep 03* 1585-1599

- quadratic Lyapunov fns. of stable lin. syst.. *Daizhan Cheng*, +, *T-AC May 2003* 885-890
- quadratic nonlin. systs. set simul.. *Calafiore, G.*, *T-AC May 2003* 800-805
- Quadratic stabil. and stabilization of dyn. interval systs.. *Wei-Jie Mao*, +, *T-AC Jun 03* 1007-1012
- robust H_∞ filtering of lin. systs. with time-varying delay. *Fridman, E.*, +, *T-AC Jan 03* 159-165
- robust stabil. bound of time-delay systs., norm-bounded uncertainty, improved estim.. *Han, Q.L.*, +, *T-AC Sep 03* 1629-1633
- Semiglobal stabilization and output regulation of sing. lin. systs. with input saturation. *Weiyao Lan*, +, *T-AC Jul 03* 1274-1280
- Separation principle for class of non-UCO systs.. *Maggiore, M.*, +, *T-AC Jul 03* 1122-1133
- simultaneous pole placement of M discretetime plants using a M-periodic controller. *Das, S.K.*, +, *T-AC Nov 03* 2045-2050
- SISO bilinear systs., constrained control. *Bacic, M.*, +, *T-AC Aug 03* 1443-1447
- stabil. and controller robustness of popular PID tuning rules. *Silva, G.J.*, +, *T-AC Sep 03* 1638-1641
- Stability anal. of swarms. *Gazi, V.*, +, *T-AC Apr 03* 692-697
- Stability of data networks, optim.-based bandwidth allocation. *Heng-Qing Ye*, *T-AC Jul 03* 1238-1242
- Stability of lin. discrete dyn. employing state saturation arith.. *Ooba, T.*, *T-AC Apr 03* 626-630
- Stabilization of nonlin. systs. with moving equilibria. *Zecevic, A.I.*, +, *T-AC Jun 03* 1036-1040
- stable, scalable, fair congestion control and AQM schemes achieve high utilization, Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028
- stable, scalable, fair congestion control and AQM schemes that achieve high utilization in the Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028
- Standard H_∞ control of procs. with, single delay. *Qing-Chang Zhong*, *T-AC Jun 03* 1097-1103
- Static sliding-motion phenom. in dyn. systs.. *Junger, I.B.*, +, *T-AC Apr 03* 680-686
- transient response control via characteristic ratio assignment. *Kim, Y.C.*, +, *T-AC Dec 03* 2238-2244
- uncertain systs., nonlin. parameterization, adaptive and robust controls. *Zhihua Qu*, *T-AC Oct 03* 1817-1824
- unstable independent models, stable predict.. *Rossiter, J.A.*, *T-AC Nov 03* 2029-2035
- variables for stabil. control, pole vectors, selection. *Havre, K.*, +, *T-AC Aug 03* 1393-1398
- walking motions of planar biped walkers, switching and PI control. *Westervelt, E.R.*, +, *T-AC Feb 03* 308-312
- Stability; cf.** Absolute stability; Asymptotic stability; Input-output stability; Power system stability; Robust control
- Stability criteria**
- correction to "Necessary and sufficient conditions for root clustering of a polytope of polynomials in a simply connected domain". *Zeheb, E.*, *T-AC Sep 03* 1674
- Delay-depend./delay-independent stabil. of lin. systs. with multiple time-varying delays. *Bugong Xu*, +, *T-AC Apr 03* 697-701
- delay systs., uncertain, param.-depend. stabil./stabilization. *Fridman, E.*, +, *T-AC May 2003* 861-866
- Directional stabil. rad., stabil. anal. tool for uncertain polynomial systs.. *Kawabata, K.*, +, *T-AC Jun 03* 1012-1015
- discrete-time systs., quantized input and state meas., stabil.. *Richter, H.*, +, *T-AC Aug 03* 1453-1458
- impulsive control systs., conditions for asymptotic stabil.. *Jitao Sun*, +, *T-AC May 2003* 829-831
- Necessary conditions for almost global stabil.. *Monzon, P.*, *T-AC Apr 03* 631-634
- Stability of systs. with several monotone nonlin.. *Barabanov, N.E.*, *T-AC Apr 03* 665-670
- Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L.*, +, *T-AC Jul 03* 1259-1263
- Sufficient condition for instabil. of buffer priority policies in re-entrant lines. *Chuang Lin*, +, *T-AC Jul 03* 1235-1238
- Stability criteria; cf.** Popov criterion
- State estimation**
- approx. of continuous-time dynamics, delayed outputs and feedforward neural nets, upper bounds. *Lavretsky, E.*, +, *T-AC Sep 03* 1606-1610
- Constrained state estimation for nonlinear discrete-time systems: stability and moving horizon approximations. *Rao, C.V.*, +, *T-AC Feb 03* 246-258
- Convex optimization-based nonlinear filtering algorithm with applications to real-time sensing for patterned wafers. *Lee, J.-W.*, +, *T-AC Feb 03* 224-235
- coupled nonlinear spacecraft attitude controller and observer with an unknown constant gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2014
- discrete-time lin. syst. receding-horizon state estim.. *Alessandri, A.*, +, *T-AC Mar 03* 473-478
- General two-stage extended Kalman filters. *Chien-Shu Hsieh*, *T-AC Feb 03* 289-293
- Markov decision procs. with delays and asynchronous cost collection. *Katsikopoulos, K.V.*, +, *T-AC Apr 03* 568-574
- new block algorithm for full-rank solution of the sylvester-observer equation. *Carvalho, J.*, +, *T-AC Dec 03* 2223-2228
- Problem of state estim. via asynchronous commun. channels with irregular transm. times. *Matveev, A.S.*, +, *T-AC Apr 03* 670-676
- Set-valued state estim. via, limited capacity commun. channel. *Savkin, A.V.*, +, *T-AC Apr 03* 676-680
- Subspace ident. with guaranteed stabil. using constrained optim.. *Lacy, S.L.*, +, *T-AC Jul 03* 1259-1263
- Synthesis of safe control policies in decentralized control of discrete-event systs.. *Rohloff, K.*, +, *T-AC Jun 03* 1064-1068
- Universal disturbance rejection for nonlin. systs. in output feedback form. *Zhengtao Ding*, *T-AC Jul 03* 1222-1226
- State estimation; cf.** Observers
- State feedback**
- cascade syst. partial-state feedback stabilization, small gain theorem. *Wei Lin*, +, *T-AC Mar 03* 497-499
- cascade systs., nonlin. parameterization via partial-state feedback, nonsmooth adaptive stabil.. *Wei Lin*, +, *T-AC Oct 03* 1809-1816
- chained systs. via hybrid control, robust stabil.. *Prieur, C.*, +, *T-AC Oct 03* 1768-1772
- constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A.*, +, *T-AC May 2003* 810-815
- constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
- Contractibility of dyn. LTI controllers using complementary matrices. *Bakule, L.*, +, *T-AC Jul 03* 1269-1274
- delay nonlin. syst. state feedback stabilization, comment. *Guangwei Li*, +, *T-AC May 2003* 908
- discrete-time systs., quantized input and state meas., stabil.. *Richter, H.*, +, *T-AC Aug 03* 1453-1458
- dissipative bilinear distributed syst. output stabilization. *Bounit, H.*, +, *T-AC Mar 03* 479-483
- Division controllers for homog. dyadic bilinear systs.. *Yean-Ren Hwang*, +, *T-AC Apr 03* 701-705
- global exponential stabil. of uncertain chained systs., switching algm.. *Zairong Xi*, +, *T-AC Oct 03* 1793-1798
- H_∞ control of lin. time-delay systs., descriptor syst. approach. *Huijun Gao*, +, *T-AC Mar 03* 520-525
- inherently nonlin. systs., nonlin. parameterization, adaptive output tracking. *Wei Lin*, +, *T-AC Oct 03* 1737-1749
- LPV systs. and their appls., invariant subspaces. *Balas, G.*, +, *T-AC Nov 03* 2065-2069
- nonlin. systs., anal. and synthesis, l^∞ -bounded robustness. *Shoudong Huang*, +, *T-AC Nov 03* 1875-1891
- nonregular feedback linearization, nonsmooth approach. *Zhendong Sun*, +, *T-AC Oct 03* 1772-1776
- P-normal forms of nonlin. systs.. *Daizhan Cheng*, +, *T-AC Jul 03* 1242-1248
- probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599
- Separation principle for class of non-UCO systs.. *Maggiore, M.*, +, *T-AC Jul 03* 1122-1133
- Separation principle for non-UCO systs., jet engine stall and surge example. *Maggiore, M.*, +, *T-AC Jul 03* 1264-1269
- State feedback stabilization for a class of stochastic time-delay nonlinear systems. *Yusun Fu*, +, *T-AC Feb 03* 282-286
- State space methods**
- 2-pers. zero-sum Markov games, receding horizon approach. *Hyeong Soo Chang*, +, *T-AC Nov 03* 1951-1961

- constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A.*, +, *T-AC May 2003* 810-815
- constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
- control perspective, dynamical syst. design. *Iwasaki, T.*, +, *T-AC Aug 03* 1337-1354
- Eigenvalue-based algorithms for testing positive realness of SISO systems. *Gao, W.*, +, *T-AC Nov 03* 2051-2054
- LQ regulators, reduced explicit constrained, piecewise lin. feedback. *Johansen, T.A.*, *T-AC May 2003* 823-829
- Multitime scale Markov decision procs.. *Hyeong Soo Chang*, +, *T-AC Jun 03* 976-987
- practical two-dimensional Thiele-type matrix Pade approximation. *Gu, C.*, *T-AC Dec 03* 2259-2263
- probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599
- spatially interconnected systs., distrib. control design. *D'Andrea, R.*, +, *T-AC Sep 03* 1478-1495
- testing pos. realness of SISO systs., eigenvalue-based algms.. *Weiguo Gao*, +, *T-AC Nov 03* 2051-2055
- Statistical analysis**
invariant subspaces for LPV systems and their applications. *Balas, G.*, +, *T-AC Nov 03* 2065-2068
- Statistics**
call admission control for stat. MUX allocating link bandwidth, optim.. *Spitler, S.L.*, +, *T-AC Oct 03* 1830-1836
- Statistics; cf.** Game theory; Monte Carlo methods; Statistical analysis
- Stochastic games**
2-pers. zero-sum Markov games, receding horizon approach. *Hyeong Soo Chang*, +, *T-AC Nov 03* 1951-1961
- Stochastic nonlinear minimax dynamic games with noisy measurements. *Charalambous, C.D.*, *T-AC Feb 03* 261-266
- Stochastic processes**
call blending, call centers, queueing model. *Bhulai, S.*, +, *T-AC Aug 03* 1434-1438
- comments on "An LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays". *Gao, H.*, +, *T-AC Nov 03* 2073-2074
- estimation with lossy measurements, jump estimators for jump systems. *Smith, S.C.*, +, *T-AC Dec 03* 2163-2171
- intrinsic difficulties in stochastic control of unstable convolution operators on Z . *Makila, P.M.*, *T-AC Nov 03* 2015-2018
- refs., tracking. *Yongsoo Eun*, +, *T-AC Sep 03* 1666-1671
- robust controllers for arbitrary uncertainty structs., design. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2065
- syst. ident., binary sens.. *Le Yi Wang*, +, *T-AC Nov 03* 1892-1907
- Stochastic processes; cf.** Markov processes; Stochastic games
- Stochastic processing**
design of robust controllers for arbitrary uncertainty structures. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2064
- Stochastic systems**
book review; Linear Estimation (Kailath, T., et al.; 2000). *Mitter, S.K.*, *T-AC Jan 03* 177-180
- Controlled Markov chains with safety upper bound. *Arapostathis, A.*, +, *T-AC Jul 03* 1230-1234
- control of unstable convolution operators, Z , intrinsic difficulties. *Makila, P.M.*, *T-AC Nov 03* 2015-2018
- finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842
- intrinsic difficulties in stochastic control of unstable convolution operators on Z . *Makila, P.M.*, *T-AC Nov 03* 2015-2018
- jump systs., bounded real lemma. *Seiler, P.*, +, *T-AC Sep 03* 1651-1654
- LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays. *Chien-Yu Lu*, +, *T-AC Feb 03* 286-289
- nonlin. stochastic syst. output feedback with risk-sensitive cost. *Yungang Liu*, +, *T-AC Mar 03* 509-513
- observability of linear stochastic uncertain systems. *Ugrinovskii, V.A.*, *T-AC Dec 03* 2264-2269
- probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599
- robust stabil. of uncertain stoch. systs., time-varying delays, LMI-based approach. *Huijun Gao*, +, *T-AC Nov 03* 2073-2074
- State feedback stabilization for a class of stochastic time-delay nonlinear systems. *Yusun Fu*, +, *T-AC Feb 03* 282-286
- Stochastic nonlinear minimax dynamic games with noisy measurements. *Charalambous, C.D.*, *T-AC Feb 03* 261-266
- tracking errors for dyn. stochastic systs.. *Hong Yue*, +, *T-AC Jan 03* 118-122
- transfer function approach to quantum control part I, dynamics of quantum feedback systems. *Yanagisawa, M.*, +, *T-AC Dec 03* 2107-2120
- uncertain Markovian jump delay syst. robust H^{∞} filtering. *Shengyuan Xu*, +, *T-AC May 2003* 900-907
- Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang*, +, *T-AC Jul 03* 1254-1258
- Suboptimal control**
Adaptive suboptimal tracking for first-order plant with Lipschitz uncertainty. *Sokolov, V.F.*, *T-AC Apr 03* 607-612
- LQ regulators, reduced explicit constrained, piecewise lin. feedback. *Johansen, T.A.*, *T-AC May 2003* 823-829
- Reduced supervisors for timed discrete-event systs.. *Gohari, P.*, +, *T-AC Jul 03* 1187-1198
- Standard H_{∞} control of procs. with, single delay. *Qing-Chang Zhong*, *T-AC Jun 03* 1097-1103
- Suboptimal receding horizon control for continuous-time systs.. *Blanchini, F.*, +, *T-AC Jun 03* 1081-1086
- Subroutines**
Eigenvalue-based algorithms for testing positive realness of SISO systems. *Gao, W.*, +, *T-AC Nov 03* 2051-2054
- Supervisory programs**
design of T -liveness enforcing supervisors in Petri nets. *Iordache, M.V.*, +, *T-AC Nov 03* 1962-1974
- synthesis of supervisors enforcing general linear constraints in Petri nets. *Iordache, M.V.*, +, *T-AC Nov 03* 2036-2039
- Switches**
well-posedness analysis of switch-driven piecewise affine systems. *Imura, J.-I.*, *T-AC Nov 03* 1926-1935
- Switching systems**
control of LTI systems subject to unanticipated extreme perturbations using self-tuning 3-term switching controllers. *Chang, M.*, +, *T-AC Nov 03* 1975-1985
- root-mean-square gains of switched linear systems. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2044
- System monitoring**
book reviews; Structure and Interpretation of Signals and Systems (Lee, E.A. and Varaiya, P.; 2003). *Xi-Ren Cao*, +, *T-AC Sep 03* 1676-1678
- Systems software; cf.** System monitoring
- System theory**
online exact differentiation and notion of asymptotic algebraic observers. *Ibrir, S.*, *T-AC Nov 03* 2055-2060

T

Tandem accelerators

fluid queueing systems with strict priority. *Liu, Y.*, +, *T-AC Dec 03* 2079-2088

Telecommunication

relatively optimal control and its linear implementation. *Blanchini, F.*, +, *T-AC Dec 03* 2151-2162

Telecommunication; cf. Digital communication; Telecommunication networks; Telecommunication traffic; Visual communication

Telecommunication congestion control

stable, scalable, fair congestion control and AQM schemes that achieve high utilization in the Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028

Telecommunication control; cf. Telecommunication congestion control

Telecommunication network management; cf. Computer network management

Telecommunication networks

fluid queueing systems with strict priority. *Liu, Y.*, +, *T-AC Dec 03* 2079-2088

Telecommunication traffic

fluid queueing systems with strict priority. *Liu, Y.*, +, *T-AC Dec 03* 2079-2088

Testing

Eigenvalue-based algorithms for testing positive realness of SISO systems. *Gao, W.*, +, *T-AC Nov 03* 2051-2054

Three-term control

control of LTI systems subject to unanticipated extreme perturbations using self-tuning 3-term switching controllers. *Chang, M.*, +, *T-AC Nov 03* 1975-1985

Time division multiplexing; cf. Packet switching**Time domain analysis**

pos. real models, subspace ident. by regularization, ident.. *Goethals, I.*, +, *T-AC Oct 03* 1843-1847

Time measurement

optimal closed-loop control of timed event graphs in dioids. *Maia, C.A.*, +, *T-AC Dec 03* 2284-2287

Time optimal control

input-saturation lin. systs., composite nonlin. feedback control. *Chen, B.M.*, +, *T-AC Mar 03* 427-439

Maximizing convergence rate for lin. systs. with input saturation. *Tingshu Hu*, +, *T-AC Jul 03* 1249-1253

Time-varying systems

Additional dyn. for general class of time-delay systs.. *Kharitonov, V.*, +, *T-AC Jun 03* 1060-1063

algebraic condition for controllability and observability of linear time-varying systems. *Leiva, H.*, +, *T-AC Dec 03* 2229-2232

asymptotic algebraic observers, online exact differentiation/notion. *Ibrir, S.*, *T-AC Nov 03* 2055-2060

backstepping control of linear time-varying systems with known and unknown parameters. *Zhang, Y.*, +, *T-AC Nov 03* 1908-1925

BIBO stabilization of stochastic delay systs. with uncertainty. *Yuli Fu*, +, *T-AC Jan 03* 133-138

comments on "An LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays". *Gao, H.*, +, *T-AC Nov 03* 2073-2074

Common quadratic Lyapunov fns. for pairs of stable LTI systs. whose syst. matrices are in companion form. *Shorten, R.N.*, +, *T-AC Apr 03* 618-621

composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties. *Dixon, W.E.*, +, *T-AC Sep 03* 1671-1672

composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties]. *Jian-Xin Xu*, +, *T-AC Sep 03* 1672-1674

coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2015

Delay-depend./delay-independent stabil. of lin. systs. with multiple time-varying delays. *Bugong Xu*, +, *T-AC Apr 03* 697-701

Error-bounds for bal. model-reduction of lin. time-varying systs.. *Lall, S.*, +, *T-AC Jun 03* 946-956

exact model-matching problem for lin. time-varying systs., alg. approach. *Marinescu, B.*, +, *T-AC Jan 03* 166-169

General interpolation in MPC and advantages. *Bacic, M.*, +, *T-AC Jun 03* 1092-1096

lin. systs., presence of meas. constraint, semiglobal regulation. *Marconi, L.*, *T-AC Aug 03* 1417-1421

lin. time-varying systs., known/unknown params., backstepping control. *Youping Zhang*, +, *T-AC Nov 03* 1908-1925

LPV systs. and their appls., invariant subspaces. *Balas, G.*, +, *T-AC Nov 03* 2065-2069

LTI syst. MRAC. *Miller, D.E.*, *T-AC May 2003* 743-757

M discrete-time plants, M-periodic controller, simultaneous pole placement. *Das, S.K.*, +, *T-AC Nov 03* 2045-2050

min-max sliding-mode control for multimodel linear time varying systems. *Poznyak, A.S.*, +, *T-AC Dec 03* 2141-2150

nonautonomous switched systs., extended invariance principle. *Orlov, Y.*, *T-AC Aug 03* 1448-1452

online exact differentiation and notion of asymptotic algebraic observers. *Ibrir, S.*, *T-AC Nov 03* 2055-2060

output feedback control, high-order sliding manifold approach. *Cavallo, A.*, +, *T-AC Mar 03* 469-472

planar biped walkers, hybrid zero dyn.. *Westervelt, E.R.*, +, *T-AC Jan 03* 42-56

Reduced-order solutions for the singular H^{∞} filtering problem. *Ariola, M.*, +, *T-AC Feb 03* 271-275

robust controllers for arbitrary uncertainty structs., design. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2065

robust H^{∞} filtering of lin. systs. with time-varying delay. *Fridman, E.*, +, *T-AC Jan 03* 159-165

robust stabil. of uncertain stoch. systs., time-varying delays, LMI-based approach. *Huijun Gao*, +, *T-AC Nov 03* 2073-2074

semidefinite prog. duality and LTI systs.. *Balakrishnan, V.*, +, *T-AC Jan 03* 30-41

Set-valued state estim. via, limited capacity commun. channel. *Savkin, A.V.*, +, *T-AC Apr 03* 676-680

L_{∞} -multipliers for robust perform. anal.. *Tanimou, M.*, +, *T-AC Jun 03* 1016-1018

switched lin. systs., RMS gains. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2045

systs., bounded nonlinearities, exponential stabil. and soln. bounds. *Zevin, A.*, +, *T-AC Oct 03* 1799-1804

uncertain nonlin. systs., unknown control coeffs., robust adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469

Time-varying systems; cf. Stochastic systems**Toeplitz matrices**

unstable independent models, stable predict.. *Rossiter, J.A.*, *T-AC Nov 03* 2029-2035

Topology

quadratic Lyapunov fns. of stable lin. syst.. *Daizhan Cheng*, +, *T-AC May 2003* 885-890

Topology; cf. Differential geometry; Graph theory**Tracking**

2DOF controller parametrization for systems with a single I/O delay. *Mirkin, L.*, +, *T-AC Nov 03* 1999-2003

Adaptive suboptimal tracking for first-order plant with Lipschitz uncertainty. *Sokolov, V.F.*, *T-AC Apr 03* 607-612

Author's reply [to comments on "Exact output tracking in decentralized adaptive control"]. *Narendra, K.S.*, *T-AC Feb 03* 350-351

Comments on "Exact output tracking in decentralized adaptive control". *Mirkin, B.M.*, *T-AC Feb 03* 348-350

control energy constraint, best tracking and regulation perform.. *Jie Chen*, +, *T-AC Aug 03* 1320-1336

Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay systs.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217

global tracking control of a helicopter without velocity measurements. *Do, K.D.*, +, *T-AC Dec 03* 2212-2217

inherently nonlin. systs., nonlin. parameterization, adaptive output tracking. *Wei Lin*, +, *T-AC Oct 03* 1737-1749

iter. learning control, fixed point theorem-based, for LTV syst.. *Jian-Xin Xu*, +, *T-AC Mar 03* 487-492

large-scale interconnected syst. decentralized neurocontrol. *Sunan Huang*, +, *T-AC May 2003* 805-810

limit sets, zero dynamics, internal models, problem of nonlin. output regulation. *Byrnes, C.I.*, +, *T-AC Oct 03* 1712-1723

lin. state delay systs., decentralized output-feedback MRAC. *Mirkin, B.M.*, +, *T-AC Sep 03* 1613-1619

MIMO nonlin. syst. robust adaptive control with guaranteed error bounds. *Haojian Xu*, +, *T-AC May 2003* 728-742

random refs., tracking. *Yongsoon Eun*, +, *T-AC Sep 03* 1666-1671

sampled-data syst. H_{∞} control/ discretization, open problem. *Mirkin, L.*, +, *T-AC May 2003* 891-894

sinusoidal sigs., fund. perform. limitations. *Weizhou Su*, +, *T-AC Aug 03* 1371-1380

time-varying uncertain nonlin. systs., unknown control coeffs., robust adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469

Traffic; cf. Telecommunication traffic**Traffic control (communication)**

call admission control for stat. MUX allocating link bandwidth, optim.. *Spitler, S.L.*, +, *T-AC Oct 03* 1830-1836

Global stabil. of congestion controllers for Internet. *Deb, S.*, +, *T-AC Jun 03* 1055-1060

routing, constrained traffic equilib.. *El Azouzi, R.*, +, *T-AC Sep 03* 1656-1660

Stability of data networks, optim.-based bandwidth allocation. *Heng-Qing Ye*, *T-AC Jul 03* 1238-1242

stable, scalable, fair congestion control and AQM schemes achieve high utilization, Internet. *Kunniyur, S.S.*, +, *T-AC Nov 03* 2024-2028

two-class stochastic fluid models for commun. network, perturb. anal.. *Cassandras, C.G.*, +, *T-AC May 2003* 770-782

Traffer function matrices

sampled-data syst. H_{∞} control/ discretization, open problem. *Mirkin, L.*, +, *T-AC May 2003* 891-894

Transfer functions

- discrete-time systs., quantized input and state meas., stabil.. *Richter, H.*, +, *T-AC Aug 03* 1453-1458
- discrete-time syst. stabilization by 1st-order controllers. *Tantaris, R.N.*, +, *T-AC May 2003* 858-860
- H_2 control with time-domain constraints, design. *Sznaier, M.*, +, *T-AC Mar 03* 355-368
- New approach to digital PID controller design. *Keel, L.H.*, +, *T-AC Apr 03* 687-692
- Stability of systs. with several monotone nonlin.. *Barabanov, N.E.*, *T-AC Apr 03* 665-670
- switched lin. systs., RMS gains. *Hespanha, J.P.*, *T-AC Nov 03* 2040-2045
- transfer function approach to quantum control part I, dynamics of quantum feedback systems. *Yanagisawa, M.*, +, *T-AC Dec 03* 2107-2120
- transfer function approach to quantum control part II, control concepts and applications. *Yanagisawa, M.*, +, *T-AC Dec 03* 2121-2132

Transfer functions; cf. Transfer function matrices**Transforms; cf.** Fourier transforms; Poincare mapping**Transient analysis**

- nonconcurrent error detection and correction in fault-tolerant linear finite-state machines. *Hadjicostis, C.N.*, *T-AC Dec 03* 2133-2140
- transient response control via characteristic ratio assignment. *Kim, Y.C.*, +, *T-AC Dec 03* 2238-2244

Transient response

- transient response control via characteristic ratio assignment. *Kim, Y.C.*, +, *T-AC Dec 03* 2238-2244

Transport protocols

- Stability of data networks, optim.-based bandwidth allocation. *Heng-Qing Ye*, *T-AC Jul 03* 1238-1242

Traveling salesman problems

- no free lunch theorems, complexity, network security. *Yu-Chi Ho*, +, *T-AC May 2003* 783-793

Tree searching

- constrained lin. model predictive control via orthogonal search tree. *Johansen, T.A.*, +, *T-AC May 2003* 810-815

Tribology; cf. Friction**Tuning**

- stabil. and controller robustness of popular PID tuning rules. *Silva, G.J.*, +, *T-AC Sep 03* 1638-1641

U**Uncertain systems**

- Adaptive suboptimal tracking for first-order plant with Lipschitz uncertainty. *Sokolov, V.F.*, *T-AC Apr 03* 607-612
- Approach to ident. for robust control. *Gugercin, S.*, +, *T-AC Jun 03* 1109-1115
- cascade systs., nonlin. parameterization via partial-state feedback, nonsmooth adaptive stabil.. *Wei Lin*, +, *T-AC Oct 03* 1809-1816
- classical robustness margins, probabilistic enhanc.. *Lagoa, C.M.*, *T-AC Nov 03* 1990-1994
- class of nonlin. systs., unstable internal dynamics, adaptive stabil.. *Zhengtao Ding*, *T-AC Oct 03* 1788-1792
- Comments on "A robust state observer scheme". *Boutayeb, M.*, +, *T-AC Jul 03* 1292-1293
- composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties. *Dixon, W.E.*, +, *T-AC Sep 03* 1671-1672
- composite energy fn.-based learning control approach for nonlin. systs., time-varying parametric uncertainties]. *Jian-Xin Xu*, +, *T-AC Sep 03* 1672-1674
- constrained uncertain discrete-time lin. systs., min-max control. *Bemporad, A.*, +, *T-AC Sep 03* 1600-1606
- Decentralized adaptive output regulation for a class of large-scale nonlinear systems. *Xudong Ye*, +, *T-AC Feb 03* 276-281
- delay-depend. robust H_∞/L_2-L_∞ filtering for class of uncertain nonlin. time-delay systs.. *Huijun Gao*, +, *T-AC Sep 03* 1661-1666
- delay systs., uncertain, param.-depend. stabil./stabilization. *Fridman, E.*, +, *T-AC May 2003* 861-866
- Directional stabil. rad., stabil. anal. tool for uncertain polynomial systs.. *Kawabata, K.*, +, *T-AC Jun 03* 1012-1015
- global exponential stabil. of uncertain chained systs., switching algm.. *Zairong Xi*, +, *T-AC Oct 03* 1793-1798
- guaranteed cost control for uncertain Markovian jump systems with mode-dependent time-delays. *Chen, W.-H.*, +, *T-AC Dec 03* 2270-2277

H_2/H_∞ static robust feedback control, lin. param. depend. design. *Shaked, U.*, *T-AC May 2003* 866-872

Immersion and invariance, new tool for stabilization and adaptive control of nonlin. systs.. *Astolfi, A.*, +, *T-AC Apr 03* 590-606

improved LMI representations for anal. and design of continuous-time systs., polytopic type uncertainty, alternative proofs. *Yingmin Jia*, *T-AC Aug 03* 1413-1416

LMI-based approach for robust stabilization of uncertain stochastic systems with time-varying delays. *Chien-Yu Lu*, +, *T-AC Feb 03* 286-289

LMI-based switching surface design method for class of mismatched uncertain systs.. *Han Ho Choi*, *T-AC Sep 03* 1634-1638

LTI systs. subj., unanticipated extreme perturbations, self-tuning 3-term switching controllers, control. *Chang, M.H.*, +, *T-AC Nov 03* 1975-1985

Markovian jump uncertain delay syst. robust H^∞ filtering. *Shengyuan Xu*, +, *T-AC May 2003* 900-907

nonlin. parameterization, adaptive and robust controls. *Zhihua Qu*, *T-AC Oct 03* 1817-1824

nonlin. systs., unknown time delays, adaptive neural net. control. *Ge, S.S.*, +, *T-AC Nov 03* 2004-2010

observability of linear stochastic uncertain systems. *Ugrinovskii, V.A.*, *T-AC Dec 03* 2264-2269

output-feedback model-reference sliding mode control of uncertain multivariable systems. *Cunha, J.P.V.S.*, +, *T-AC Dec 03* 2245-2250

polytopic uncertain syst. robust D-stabil., LMI condition. *Leite, V.J.S.*, +, *T-AC Mar 03* 500-504

probab. of nonlin. stoch. systs., guaranteed region of attraction and target set, stabil.. *Battilotti, S.*, +, *T-AC Sep 03* 1585-1599

robust controllers for arbitrary uncertainty structs., design. *Lagoa, C.M.*, +, *T-AC Nov 03* 2061-2065

Robust control of nonlinear systems in the presence of unknown exogenous dynamics. *Zhihua Qu*, +, *T-AC Feb 03* 336-343

robust iter. learning control design for uncertain LTI systs. satisfying robust perform. condition. *Tayebi, A.*, +, *T-AC Jan 03* 101-106

robust PI controller design satisfying sensitivity and uncertainty specifications. *Yaniv, O.*, +, *T-AC Nov 03* 2069-2072

robust stabil. bound of time-delay systs., norm-bounded uncertainty, improved estim.. *Han, Q.L.*, +, *T-AC Sep 03* 1629-1633

robust stabil. of uncertain stoch. systs., time-varying delays, LMI-based approach. *Huijun Gao*, +, *T-AC Nov 03* 2073-2074

Set-valued state estim. via, limited capacity commun. channel. *Savkin, A.V.*, +, *T-AC Apr 03* 676-680

L_∞ -multipliers for robust perform. anal.. *Tanimou, M.*, +, *T-AC Jun 03* 1016-1018

systs., bounded nonlinearities, exponential stabil. and soln. bounds. *Zevin, A.*, +, *T-AC Oct 03* 1799-1804

time-varying uncertain nonlin. systs., unknown control coeffs., robust adaptive tracking. *Ge, S.S.*, +, *T-AC Aug 03* 1463-1469

Universal disturbance rejection for nonlin. systs. in output feedback form. *Zhengtao Ding*, *T-AC Jul 03* 1222-1226

Variance-constrained filtering for uncertain stochastic systs. with missing meas.. *Zidong Wang*, +, *T-AC Jul 03* 1254-1258

Uncertainty

lin. feedback systs., presence of plant uncertainty, perform. limitations. *Goodwin, G.C.*, +, *T-AC Aug 03* 1312-1319

robust stabil. for multidimensional array systs., struct. uncertainty anal.. *Gorinevsky, D.*, +, *T-AC Sep 03* 1557-1568

Uncertainty handling

corrections to "Robust H_∞ control for linear discrete-time systems with norm-bounded nonlinear uncertainties" (Jan 99 108-111). *Ghosh, J.*, +, *T-AC Aug 03* 1471-1472

V**Van de Graaff accelerators; cf.** Tandem accelerators**Variable structure systems**

Decentralized model ref. adaptive variable struct. controller for large-scale time-varying delay systs.. *Chien-Hsin Chou*, +, *T-AC Jul 03* 1213-1217

equiv. control sliding-mode control systs., discretization behaviors. *Xinghuo Yu*, +, *T-AC Sep 03* 1641-1646

LMI-based switching surface design method for class of mismatched uncertain systs.. *Han Ho Choi*, *T-AC Sep 03* 1634-1638

min-max sliding-mode control for multimodel linear time varying systems. *Poznyak, A.S.*, +, *T-AC Dec 03* 2141-2150

output feedback control, high-order sliding manifold approach. *Cavallo, A.*, +, *T-AC Mar 03* 469-472

output-feedback model-reference sliding mode control of uncertain multivariable systems. *Cunha, J.P.V.S.*, +, *T-AC Dec 03* 2245-2250

Robust sliding-mode control for uncertain time-delay systs., LMI approach. *Yuanqing Xia*, +, *T-AC Jun 03* 1086-1091

Simplified exponentially convergent rotor resistance estimation for induction motors. *Bartolini, G.*, +, *T-AC Feb 03* 325-330

sliding-mode control design for complex valued sliding manifold. *Shepit, B.M.*, +, *T-AC Jan 03* 122-127

Static sliding-motion phenom. in dyn. systs.. *Junger, I.B.*, +, *T-AC Apr 03* 680-686

switch-driven piecewise affine systs., well-posedness anal.. *Jun-ichi Imura*, *T-AC Nov 03* 1926-1935

Vehicles; cf. Aircraft; Space vehicles

Velocity measurement
coupled nonlin. spacecraft attitude controller and observer, unknown const. gyro bias and gyro noise. *Thienel, J.*, +, *T-AC Nov 03* 2011-2015

global tracking control of a helicopter without velocity measurements. *Do, K.D.*, +, *T-AC Dec 03* 2212-2217

Visual communication

range identification for perspective vision systems. *Dixon, W.E.*, +, *T-AC Dec 03* 2232-2238

W**Waveform analysis; cf.** Spectral analysis**White noise**

Closed-form unbiased freq. estim. of noisy sinusoid using notch filters. *Savaresi, S.M.*, +, *T-AC Jul 03* 1285-1292

finite horizon quadratic optimal control and separation principle for Markovian jump lin. systs.. *Costa, O.L.V.*, +, *T-AC Oct 03* 1836-1842

Problem of state estim. via asynchronous commun. channels with irregular transm. times. *Matveev, A.S.*, +, *T-AC Apr 03* 670-676

Windings; cf. Machine windings