

# 2016 Index

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This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2016, and items from previous years that were commented upon or corrected in 2016. 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. Note that the item title is found only under the primary entry in the Author Index.

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#### Discs (structures)

A Minimal State Approach to Dynamic Stabilization of the Rotating Disk-Beam System With Infinite Memory. *Chentouf, B.*, *TAC Nov. 2016 3700-3706*

#### Diseases

A Supervisory Control Theory Approach to Control Gene Regulatory Networks. *Baldissera, F.L.*, +, *TAC Jan. 2016 18-33*

#### Distance measurement

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- Distributed control**
- A Distributed Optimization Algorithm for the Predictive Control of Smart Grids. *Braun, P.*, +, *TAC Dec. 2016 3898-3911*
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- Containment Control of Single-Integrator Network With Limited Communication Data Rate. *Mu, X.*, +, *TAC Aug. 2016 2232-2238*
- Containment of Higher-Order Multi-Leader Multi-Agent Systems: A Dynamic Output Approach. *Wen, G.*, +, *TAC April 2016 1135-1140*
- Cooperative Global Robust Output Regulation for a Class of Nonlinear Multi-Agent Systems With a Nonlinear Leader. *Lu, M.*, +, *TAC Nov. 2016 3557-3562*
- Distributed Consensus Control of Multi-Agent Systems With Higher Order Agent Dynamics and Dynamically Changing Directed Interaction Topologies. *Su, S.*, +, *TAC Feb. 2016 515-519*
- Distributed Consensus of Second-Order Multi-Agent Systems With Heterogeneous Unknown Inertias and Control Gains Under a Directed Graph. *Mei, J.*, +, *TAC Aug. 2016 2019-2034*
- Distributed Coordination Control for Multi-Robot Networks Using Lyapunov-Like Barrier Functions. *Panagou, D.*, +, *TAC March 2016 617-632*
- Distributed Formation Stabilization Using Relative Position Measurements in Local Coordinates. *Aranda, M.*, +, *TAC Dec. 2016 3925-3935*
- Distributed Mixed  $H_2/H_\infty$  Fusion Estimation With Limited Communication Capacity. *Chen, B.*, +, *TAC March 2016 805-810*
- Distributed Nonlinear MPC of Multi-Agent Systems With Data Compression and Random Delays. *El-Ferik, S.*, +, *TAC March 2016 817-822*
- Distributed Satisficing MPC With Guarantee of Stability. *de Lima, M.L.*, +, *TAC Feb. 2016 532-537*
- Distributed-Observer-Based Output Regulation of Heterogeneous Nonlinear Multi-Agent Systems. *Yang, X.*, +, *TAC Nov. 2016 3539-3544*
- Finite-Time Connectivity-Preserving Consensus of Networked Nonlinear Agents With Unknown Lipschitz Terms. *Cao, Y.*, +, *TAC June 2016 1700-1705*
- Formation Control and Velocity Tracking for a Group of Nonholonomic Wheeled Robots. *Vos, E.*, +, *TAC Sept. 2016 2702-2707*
- Hierarchical Decomposition Based Consensus Tracking for Uncertain Interconnected Systems via Distributed Adaptive Output Feedback Control. *Wang, W.*, +, *TAC July 2016 1938-1945*
- Necessary and Sufficient Graphical Conditions for Affine Formation Control. *Lin, Z.*, +, *TAC Oct. 2016 2877-2891*
- On Distributed and Parameterized Supervisor Synthesis Problems. *Lin, L.*, +, *TAC March 2016 777-782*
- Operator-Type Stability Theorem for Retarded Stochastic Systems With Application. *Zhao, X.*, +, *TAC Dec. 2016 4203-4209*
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- Plug-and-Play Fault Detection and Control-Reconfiguration for a Class of Nonlinear Large-Scale Constrained Systems. *Riverso, S.*, +, *TAC Dec. 2016 3963-3978*
- Team-Triggered Coordination for Real-Time Control of Networked Cyber-Physical Systems. *Nowzari, C.*, +, *TAC Jan. 2016 34-47*
- Wave Equation With Cone-Bounded Control Laws. *Prieur, C.*, +, *TAC Nov. 2016 3452-3463*
- Distributed parameter systems**
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- Reduction-Based Robustness Analysis of Linear Predictor Feedback for Distributed Input Delays. *Ponomarev, A.*, *TAC Feb. 2016 468-472*
- Distributed power generation**
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- Price-Based Coordinated Aggregation of Networked Distributed Energy Resources. *Ghahesifard, B.*, +, *TAC Oct. 2016 2936-2946*
- Distributed processing**
- Convergence Analysis of Distributed Set-Valued Information Systems. *Fagiolini, A.*, +, *TAC June 2016 1477-1491*
- Distribution networks**
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- Doppler measurement**
- Nonlinear Observer for 3D Rigid Body Motion Estimation Using Doppler Measurements. *Bras, S.*, +, *TAC Nov. 2016 3580-3585*
- Duality (mathematics)**
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- Dynamic programming**
- A Hybrid-Adaptive Dynamic Programming Approach for the Model-Free Control of Nonlinear Switched Systems. *Lu, W.*, +, *TAC Oct. 2016 3203-3208*
- Adaptive Dynamic Programming and Adaptive Optimal Output Regulation of Linear Systems. *Gao, W.*, +, *TAC Dec. 2016 4164-4169*
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- Dynamic Scheduling for Charging Electric Vehicles: A Priority Rule. *Xu, Y.*, +, *TAC Dec. 2016 4094-4099*
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- State Classification of Time-Nonhomogeneous Markov Chains and Average Reward Optimization of Multi-Chains. *Cao, X.*, *TAC Oct. 2016 3001-3015*
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- Earthquakes**
- Bounded Disturbance Amplification for Mass Chains with Passive Interconnection. *Yamamoto, K.*, +, *TAC June 2016 1565-1574*
- Eigenstructure assignment**
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- Eigenvalues and eigenfunctions**
- Adding a Single State Memory Optimally Accelerates Symmetric Linear Maps. *Sarlette, A.*, *TAC Nov. 2016 3533-3538*
- Chang Transformation for Decoupling of Singularly Perturbed Linear Time-Varying Systems. *Yang, X.*, +, *TAC June 2016 1637-1642*
- Characterization of Controllability Based on Continuity of Closed-Loop Eigenvectors: Application to Controller-Driven Sampling Stabilization. *Haimovich, H.*, +, *TAC Jan. 2016 276-281*
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- Global Stability Analysis Using the Eigenfunctions of the Koopman Operator. *Mauroy, A.*, +, *TAC Nov. 2016 3356-3369*
- Interval Bipartite Consensus of Networked Agents Associated With Signed Digraphs. *Meng, D.*, +, *TAC Dec. 2016 3755-3770*
- Local Pinning of Networks of Multi-Agent Systems With Transmission and Pinning Delays. *Lu, W.*, +, *TAC Sept. 2016 2657-2662*
- Non-Minimal Order Model of Mechanical Systems With Redundant Constraints for Simulations and Controls. *Aghili, F.*, *TAC May 2016 1350-1355*
- On the Analysis of the Eigenvalues of Uncertain Matrices by  $\mu$  and  $\nu$ : Applications to Bifurcation Avoidance and Convergence Rates. *Kishida, M.*, +, *TAC March 2016 748-753*
- On the Smallest Eigenvalue of Grounded Laplacian Matrices. *Pirani, M.*, +, *TAC Feb. 2016 509-514*
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- Refined Schur Method for Robust Pole Assignment with Repeated Poles. *Guo, Z.*, +, *TAC Sept. 2016 2370-2385*

- Simultaneous Triangularization of Switching Linear Systems: Arbitrary Eigenvalue Assignment and Genericity. *Haimovich, H.*, *TAC Sept. 2016* 2572-2578
- Tracking the Algebraic Multiplicity of Crossing Imaginary Roots for Generic Quasipolynomials: A Vandermonde-Based Approach. *Bous-saada, I.*, *TAC June 2016* 1601-1606
- Electric vehicles**
- Decentralized Charging of Plug-in Electric Vehicles With Distribution Feeder Overload Control. *Ghavami, A.*, *TAC Nov. 2016* 3527-3532
- Embedded systems**
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- Encoding**
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- Energy conservation**
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- Entropy**
- Distributed Detection: Finite-Time Analysis and Impact of Network Topology. *Shahrampour, S.*, *TAC Nov. 2016* 3256-3268
- Performance Analysis of Gradient-Based Nash Seeking Algorithms Under Quantization. *Nekouei, E.*, *TAC Dec. 2016* 3771-3783
- Environmental monitoring (geophysics)**
- A Payoff-Based Learning Approach to Cooperative Environmental Monitoring for PTZ Visual Sensor Networks. *Hatanaka, T.*, *TAC March 2016* 709-724
- Equivalence classes**
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- Error analysis**
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- Estimation theory**
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- Robust Recursive State Estimation With Random Measurement Droppings. *Zhou, T.*, *TAC Jan. 2016* 156-171
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- Slide Window Bounded-Error Time-Varying Systems Identification. *Bravo, J.M.*, *TAC Aug. 2016* 2282-2287
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- Analysis and Control of Networked Game Dynamics via A Microscopic Deterministic Approach. *Tan, S.*, *TAC Dec. 2016* 4118-4124
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- Expectation-maximization algorithms**
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- Extrusion**
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- F**
- Fading channels**
- An Equalization Approach to Feedback Stabilization Over Fading Channels. *Gu, G.*, *TAC July 2016* 1869-1881
- Kalman Filtering With Relays Over Wireless Fading Channels. *Leong, A.S.*, *TAC June 2016* 1643-1648
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- Fault diagnosis**
- “Polynomial Time Verification of Decentralized Diagnosability of Discrete Event Systems” Versus “Decentralized Failure Diagnosis of Discrete Event Systems”: A Critical Appraisal. *Moreira, M.V.*, *TAC Jan. 2016* 178-181
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- Stability Analysis for LTI Control Systems With Controller Failures and Its Application in Failure Tolerant Control. *Xiang, W.*, *TAC March 2016* 811-816
- Feedback**
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- A New Prediction Scheme for Input Delay Compensation in Restricted-Feedback Linearizable Systems. *Pasillas-Lepine, W.*, *TAC Nov. 2016* 3693-3699
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- A Unifying Framework for Robust Synchronization of Heterogeneous Networks via Integral Quadratic Constraints. *Khong, S.Z.*, *TAC May 2016* 1297-1309
- Active Disturbance Rejection Control Approach to Output-Feedback Stabilization of a Class of Uncertain Nonlinear Systems Subject to Stochastic Disturbance. *Guo, B.*, *TAC June 2016* 1613-1618
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- Almost Sure Exponential Stabilization by Discrete-Time Stochastic Feedback Control. *Mao, X.*, *TAC June 2016* 1619-1624

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- Low-Complexity Prescribed Performance Control of Uncertain MIMO Feedback Linearizable Systems. *Theodorakopoulos, A.*, +, *TAC July 2016 1946-1952*
- Maximum Hands-Off Control: A Paradigm of Control Effort Minimization. *Nagahara, M.*, +, *TAC March 2016 735-747*
- MIMO Control Over Additive White Noise Channels: Stabilization and Tracking by LTI Controllers. *Li, Y.*, +, *TAC May 2016 1281-1296*
- Modeling and Control of Switched Asynchronous Sequential Machines. *Yang, J.*, *TAC Sept. 2016 2714-2719*
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- Observers are Unnecessary for Output-Feedback Control of Lagrangian Systems. *Loria, A.*, *TAC April 2016 905-920*
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- On Switching Stabilizability for Continuous-Time Switched Linear Systems. *Lu, Y.*, +, *TAC Nov. 2016 3515-3520*
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- Regional Stability Analysis of Discrete-Time Dynamic Output Feedback Under Aperiodic Sampling and Input Saturation. *Gomes da Silva, J.M.*, +, *TAC Dec. 2016 4176-4182*
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- The Mean-Square Stability Probability of  $H_\infty$  Control of Continuous Markovian Jump Systems. *Zhu, J.*, +, *TAC July 2016 1918-1924*
- Time-Varying Input and State Delay Compensation for Uncertain Nonlinear Systems. *Kamalapurkar, R.*, +, *TAC March 2016 834-839*
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- Embedding Internal Model in Disturbance Observer With Robust Stability. *Joo, Y.*, +, *TAC Oct. 2016 3128-3133*
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- Constructive Necessary and Sufficient Condition for the Stability of Quasi-Periodic Linear Impulsive Systems. *Fiacchini, M.*, +, *TAC Sept. 2016 2512-2517*
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