

# 2017 Index

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This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2017, and items from previous years that were commented upon or corrected in 2017. 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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- Passivity-Based Asynchronous Control for Markov Jump Systems. *Wu, Z.*, +, *TAC April 2017 2020-2025*
- Stability Analysis and Control Design of Discrete-Time Switched Affine Systems. *Deaecto, G.S.*, +, *TAC Aug. 2017 4058-4065*

**DC-AC power converters**

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**Decidability**

- On the Decidability and Complexity of Diagnosability for Labeled Petri Nets. *Yin, X.*, +, *TAC Nov. 2017 5931-5938*

**Decision making**

- A Generalized Framework for Inference-Based Diagnosis of Discrete Event Systems Capturing Both Disjunctive and Conjunctive Decision-Making. *Takai, S.*, +, *TAC June 2017 2778-2793*
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**Degradation**

- On Kalman Filtering with Compromised Sensors: Attack Stealthiness and Performance Bounds. *Bai, C.*, +, *TAC Dec. 2017 6641-6648*

**Delay estimation**

- Joint State Estimation and Delay Identification for Nonlinear Systems With Delayed Measurements. *Cacace, F.*, +, *TAC Sept. 2017 4848-4854*

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- A Descriptor Approach to Robust Leader-Following Output Consensus of Uncertain Multi-Agent Systems With Delay. *Shariati, A.*, +, *TAC Oct. 2017 5310-5317*
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- Observer Design for Tracking Consensus in Second-Order Multi-Agent Systems: Fractional Order Less Than Two. *Yu, W.*, +, *TAC Feb. 2017 894-900*
- Observer-Based Controllers for Max-Plus Linear Systems. *Hardouin, L.*, +, *TAC May 2017 2153-2165*
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- Voltage Stabilization in Microgrids via Quadratic Droop Control. *Simpson-Porco, J.W., +, TAC March 2017 1239-1253*
- Robust stability**
- Robust Switching Control: Stability Analysis and Application to Active Disturbance Attenuation. *Battistelli, G., +, TAC Dec. 2017 6369-6376*
- Robustness**
- Cooperative Global Robust Output Regulation for Nonlinear Output Feedback Multiagent Systems Under Directed Switching Networks. *Liu, W., +, TAC Dec. 2017 6339-6352*
- Optimal Load-Side Control for Frequency Regulation in Smart Grids. *Mal-lada, E., +, TAC Dec. 2017 6294-6309*
- Pinning Control for the Disturbance Decoupling Problem of Boolean Networks. *Liu, Y., +, TAC Dec. 2017 6595-6601*
- Robust Hybrid Output Regulation for Linear Systems With Periodic Jumps: Semiclassical Internal Model Design. *Carnevale, D., +, TAC Dec. 2017 6649-6656*
- Robust Switching Control: Stability Analysis and Application to Active Disturbance Attenuation. *Battistelli, G., +, TAC Dec. 2017 6369-6376*
- Routh methods**
- A Note on Recursive Schur Complements, Block Hurwitz Stability of Metzler Matrices, and Related Results. *Souza, M., +, TAC Aug. 2017 4167-4172*
- S**
- Safety-critical software**
- Approximate Safety Verification and Control of Partially Observable Stochastic Hybrid Systems. *Lesser, K., +, TAC Jan. 2017 81-96*
- Sampled data systems**
- H<sub>2</sub> Optimal Coordination of Homogeneous Agents Subject to Limited Information Exchange. *Madjidian, D., +, TAC March 2017 1424-1430*
- A Robust Event-Triggered Approach for Fast Sampled-Data Extremization and Learning. *Poveda, J.L., +, TAC Oct. 2017 4949-4964*
- Continuous Sampled-Data Observer Design for Nonlinear Systems With Time Delay Larger or Smaller Than the Sampling Period. *Zhang, D., +, TAC Nov. 2017 5822-5829*
- Control of Uncertain Sampled-Data Systems: An Adaptive Posicast Control Approach. *Abidi, K., +, TAC May 2017 2597-2602*
- Efficiently Attentive Event-Triggered Systems With Limited Bandwidth. *Li, L., +, TAC March 2017 1491-1497*
- Estimation of Sampling Period for Stochastic Nonlinear Sampled-Data Systems With Emulated Controllers. *Gao, Y., +, TAC Sept. 2017 4713-4718*
- Exponential Stability Analysis of Sampled-Data ODE-PDE Systems and Application to Observer Design. *Ahmed-Ali, T., +, TAC June 2017 3091-3098*
- Intermittent Redesign of Analog Controllers via the Youla Parameter. *Mirkin, L., TAC April 2017 1838-1851*
- Modified Euler-Frobenius Polynomials With Application to Sampled Data Modelling. *Carrasco, D.S., +, TAC Aug. 2017 3972-3985*
- New Results on Stability of Slowly Switched Systems: A Multiple Discontinuous Lyapunov Function Approach. *Zhao, X., +, TAC July 2017 3502-3509*
- On Control Lyapunov-Razumikhin Functions, Nonconstant Delays, Non-smooth Feedbacks, and Nonlinear Sampled-Data Stabilization. *Pepe, P., TAC Nov. 2017 5604-5619*
- Quantized/Saturated Control for Sampled-Data Systems Under Noisy Sampling Intervals: A Confluent Vandermonde Matrix Approach. *Shen, B., +, TAC Sept. 2017 4753-4759*
- Robust Sampled-Data Output Synchronization of Nonlinear Heterogeneous Multi-Agents. *Chen, X., +, TAC March 2017 1458-1464*
- Sampled Observability and State Estimation of Linear Discrete Ensembles. *Zeng, S., +, TAC May 2017 2406-2418*
- Sampled-Data Stabilization of Nonlinear Dynamics With Input Delays Through Immersion and Invariance. *Monaco, S., +, TAC May 2017 2561-2567*
- Stability Analysis and Control Design of Discrete-Time Switched Affine Systems. *Deaecto, G.S., +, TAC Aug. 2017 4058-4065*
- Stability Analysis of Sampled-Data Systems via Free-Matrix-Based Time-Dependent Discontinuous Lyapunov Approach. *Lee, T.H., +, TAC July 2017 3653-3657*
- Weighted Consensus Protocols Design Based on Network Centrality for Multi-Agent Systems With Sampled-Data. *Park, M., +, TAC June 2017 2916-2922*
- Sampling methods**
- A Lyapunov Redesign of Coordination Algorithms for Cyber-Physical Systems. *De Persis, C., +, TAC Feb. 2017 808-823*
- Adaptive Search Algorithms for Discrete Stochastic Optimization: A Smooth Best-Response Approach. *Namvar Gharehshiran, O., +, TAC Jan. 2017 161-176*
- Intermittent Redesign of Analog Controllers via the Youla Parameter. *Mirkin, L., TAC April 2017 1838-1851*
- Myopic Allocation Policy With Asymptotically Optimal Sampling Rate. *Peng, Y., +, TAC April 2017 2041-2047*
- On H<sub>∞</sub> Finite-Horizon Filtering Under Stochastic Protocol: Dealing With High-Rate Communication Networks. *Zou, L., +, TAC Sept. 2017 4884-4890*
- Sequential Decision Making With Coherent Risk. *Tamar, A., +, TAC July 2017 3323-3338*
- Support Vector Machine Informed Explicit Nonlinear Model Predictive Control Using Low-Discrepancy Sequences. *Chakrabarty, A., +, TAC Jan. 2017 135-148*
- Scheduling**
- Quickest Change Detection With Observation Scheduling. *Ren, X., +, TAC June 2017 2635-2647*
- Robust Transport Over Networks. *Chen, Y., +, TAC Sept. 2017 4675-4682*
- Sensor Scheduling in Variance Based Event Triggered Estimation With Packet Drops. *Leong, A.S., +, TAC April 2017 1880-1895*
- Ultimate Boundedness Control for Networked Systems With Try-Once-Discard Protocol and Uniform Quantization Effects. *Zou, L., +, TAC Dec. 2017 6582-6588*
- Search engines**
- Distributed Algorithms for Computation of Centrality Measures in Complex Networks. *You, K., +, TAC May 2017 2080-2094*
- Search problems**
- A Partition-Based Random Search for Stochastic Constrained Optimization via Simulation. *Gao, S., +, TAC Feb. 2017 740-752*
- Adaptive Search Algorithms for Discrete Stochastic Optimization: A Smooth Best-Response Approach. *Namvar Gharehshiran, O., +, TAC Jan. 2017 161-176*
- An Optimized Algorithm of General Distributed Diagnosability Analysis for Modular Structures. *Ye, L., +, TAC April 2017 1768-1780*
- Distributed Time-Varying Quadratic Optimization for Multiple Agents Under Undirected Graphs. *Sun, C., +, TAC July 2017 3687-3694*
- Security of data**
- Dynamic Attack Detection in Cyber-Physical Systems With Side Initial State Information. *Chen, Y., +, TAC Sept. 2017 4618-4624*

- On Finite-State Stochastic Modeling and Secure Estimation of Cyber-Physical Systems. *Shi, D.*, +, *TAC Jan. 2017 65-80*
- Secure State Estimation for Cyber-Physical Systems Under Sensor Attacks: A Satisfiability Modulo Theory Approach. *Shoukry, Y.*, +, *TAC Oct. 2017 4917-4932*
- The Performance and Limitations of  $\epsilon$ -Stealthy Attacks on Higher Order Systems. *Kung, E.*, +, *TAC Feb. 2017 941-947*
- Verification of State-Based Opacity Using Petri Nets. *Tong, Y.*, +, *TAC June 2017 2823-2837*
- Sensitivity analysis**
- Generalized Derivatives for Hybrid Systems. *Khan, K.A.*, +, *TAC July 2017 3193-3208*
- Robust Stochastic Design of Signal-Controlled Road Network Under Uncertain Travel Demands. *Chiou, S.*, *TAC July 2017 3152-3164*
- Sensor fusion**
- Networked Fusion Estimation With Bounded Noises. *Chen, B.*, +, *TAC Oct. 2017 5415-5421*
- Optimal Estimation With Missing Observations via Balanced Time-Symmetric Stochastic Models. *Georgiou, T.T.*, +, *TAC Nov. 2017 5590-5603*
- Sensor placement**
- Distributed Sensor Coordination Algorithms for Efficient Coverage in a Network of Heterogeneous Mobile Sensors. *Mahboubi, H.*, +, *TAC Nov. 2017 5954-5961*
- Non-Autonomous Coverage Control With Diffusive Evolving Density. *Miah, S.*, +, *TAC Oct. 2017 5262-5268*
- Sensor systems**
- On Kalman Filtering with Compromised Sensors: Attack Stealthiness and Performance Bounds. *Bai, C.*, +, *TAC Dec. 2017 6641-6648*
- Sensors**
- An On-line Sensor Selection Algorithm for SPRT With Multiple Sensors. *Bai, C.*, +, *TAC July 2017 3532-3539*
- Calculating All Minimal Transition-Based Sensor Activation Policies for the Purpose of Supervisory Control. *Wang, W.*, +, *TAC Nov. 2017 5894-5901*
- Estimation With Strategic Sensors. *Farokhi, F.*, +, *TAC Feb. 2017 724-739*
- Event-Triggered Mean-Square Consensus Control for Time-Varying Stochastic Multi-Agent System With Sensor Saturations. *Ma, L.*, +, *TAC July 2017 3524-3531*
- On Stabilization of Decentralized Systems Across Analog Erasure Links. *Liu, J.*, +, *TAC March 2017 1411-1416*
- Sensor Scheduling in Variance Based Event Triggered Estimation With Packet Drops. *Leong, A.S.*, +, *TAC April 2017 1880-1895*
- Sentiment analysis**
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- Set theory**
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- An Interval Approach to Compute Invariant Sets. *Le Mezo, T.*, +, *TAC Aug. 2017 4236-4242*
- Approaches to Determining Box Consistent Parameter Sets for Polytopic Output Constraints on Linear Fractional Models Using Structured Singular Values. *Kishida, M.*, *TAC March 2017 1417-1423*
- Basis Marking Representation of Petri Net Reachability Spaces and Its Application to the Reachability Problem. *Ma, Z.*, +, *TAC March 2017 1078-1093*
- Computing Robust Controlled Invariant Sets of Linear Systems. *Rungger, M.*, +, *TAC July 2017 3665-3670*
- Distributed Continuous-Time Optimization: Nonuniform Gradient Gains, Finite-Time Convergence, and Convex Constraint Set. *Lin, P.*, +, *TAC May 2017 2239-2253*
- Distributed Velocity-Constrained Consensus of Discrete-Time Multi-Agent Systems With Nonconvex Constraints, Switching Topologies, and Delays. *Lin, P.*, +, *TAC Nov. 2017 5788-5794*
- Minimum Resource Commitment for Reachability Specifications in a Discrete Time Linear Setting. *Vignali, R.*, +, *TAC June 2017 3021-3028*
- Reach-Avoid Verification for Nonlinear Systems Based on Boundary Analysis. *Xue, B.*, +, *TAC July 2017 3518-3523*
- Single Sample Fictitious Play. *Swenson, B.*, +, *TAC Nov. 2017 6026-6031*
- Some New Results on Sample Path Optimality in Ergodic Control of Diffusions. *Arapostathis, A.*, *TAC Oct. 2017 5351-5356*
- Stability Analysis and Control Design of Discrete-Time Switched Affine Systems. *Deaecto, G.S.*, +, *TAC Aug. 2017 4058-4065*
- Synchronization of Multiagent Systems Using Event-Triggered and Self-Triggered Broadcasts. *Almeida, J.*, +, *TAC Sept. 2017 4741-4746*
- Signal processing**
- A Characterization of Switched Linear Control Systems With Finite  $L_2$ -Gain. *Chitour, Y.*, +, *TAC April 2017 1825-1837*
- Inverse Feedback Shapers for Coupled Multibody Systems. *Hromcik, M.*, +, *TAC Sept. 2017 4804-4810*
- Linear Estimation for Measurement-Delay Systems With Periodic Coefficients and Multiplicative Noise. *Song, X.*, +, *TAC Aug. 2017 4124-4130*
- Signal processing algorithms**
- An Augmented Lagrangian Filter Method for Real-Time Embedded Optimization. *Chiang, N.*, +, *TAC Dec. 2017 6110-6121*
- Stochastic Dual Averaging for Decentralized Online Optimization on Time-Varying Communication Graphs. *Lee, S.*, +, *TAC Dec. 2017 6407-6414*
- Signal sampling**
- Networked Fusion Estimation With Bounded Noises. *Chen, B.*, +, *TAC Oct. 2017 5415-5421*
- Singular value decomposition**
- Approaches to Determining Box Consistent Parameter Sets for Polytopic Output Constraints on Linear Fractional Models Using Structured Singular Values. *Kishida, M.*, *TAC March 2017 1417-1423*
- SVD-Based Kalman Filter Derivative Computation. *Tsyganova, J.V.*, +, *TAC Sept. 2017 4869-4875*
- Singularly perturbed systems**
- Chattering Analysis of HOSM Controlled Systems: Frequency Domain Approach. *Rosales, A.*, +, *TAC Aug. 2017 4109-4115*
- Extremum-Seeking in Singularly Perturbed Hybrid Systems. *Kutadinata, R.J.*, +, *TAC June 2017 3014-3020*
- Smoothing methods**
- Iterated Posterior Linearization Smoother. *Garcia-Fernandez, A.F.*, +, *TAC April 2017 2056-2063*
- Social networking (online)**
- Distributed Evaluation and Convergence of Self-Appraisals in Social Networks. *Chen, X.*, +, *TAC Jan. 2017 291-304*
- Novel Multidimensional Models of Opinion Dynamics in Social Networks. *Parsegov, S.E.*, +, *TAC May 2017 2270-2285*
- Polar Opinion Dynamics in Social Networks. *Amelkin, V.*, +, *TAC Nov. 2017 5650-5665*
- Social sciences**
- Pairwise Stochastic Bounded Confidence Opinion Dynamics: Heavy Tails and Stability. *Baccelli, F.*, +, *TAC Nov. 2017 5678-5693*
- Sociology**
- Dynamic Demand and Mean-Field Games. *Bauso, D.*, *TAC Dec. 2017 6310-6323*
- Source coding**
- Semidefinite Programming Approach to Gaussian Sequential Rate-Distortion Trade-Offs. *Tanaka, T.*, +, *TAC April 2017 1896-1910*
- Sparse matrices**
- On a Class of Optimization-Based Robust Estimators. *Bako, L.*, *TAC Nov. 2017 5990-5997*
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- Likelihood Analysis of Power Spectra and Generalized Moment Problems. *Georgiou, T.T.*, +, *TAC Sept. 2017 4580-4592*
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- Structured Singular Value Analysis for Spintronics Network Information Transfer Control. *Jonckheere, E.A.*, +, *TAC Dec. 2017 6568-6574*
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- Springs (mechanical)**
- On Minimizing the Maximal Characteristic Frequency of a Linear Chain. *Zarai, Y.*, +, *TAC Sept. 2017 4827-4833*
- Stability**
- $H_2$ -Control of Continuous-Time Hidden Markov Jump Linear Systems. *Stadtmann, F.*, +, *TAC Aug. 2017 4031-4037*
- $L_1$ -Stochastic Stability and  $L_1$ -Gain Performance of Positive Markov Jump Linear Systems With Time-Delays: Necessary and Sufficient Conditions. *Zhu, S.*, +, *TAC July 2017 3634-3639*
- $H_2$  State Feedback Control Design of Continuous-Time Positive Linear Systems. *Deaecto, G.S.*, +, *TAC Nov. 2017 5844-5849*
- 2D Observer-Based Control of a Vascular Microrobot. *Sadelli, L.*, +, *TAC May 2017 2194-2206*
- A Characterization of Lyapunov Inequalities for Stability of Switched Systems. *Jungers, R.M.*, +, *TAC June 2017 3062-3067*
- A Geometric Characterization of the Persistence of Excitation Condition for the Solutions of Autonomous Systems. *Padoan, A.*, +, *TAC Nov. 2017 5666-5677*

- A Note on Relationship Between Two Classes of Integral Inequalities. *Chen, J.*, +, *TAC Aug. 2017 4044-4049*
- A Numerical Approach to Stability of Multiclass Queueing Networks. *Leahu, H.*, +, *TAC Oct. 2017 5478-5484*
- A Tool for the Global Stabilization of Stochastic Nonlinear Systems. *Bian, T.*, +, *TAC April 2017 1946-1951*
- Adaptive Asymptotic Tracking Control of Uncertain Time-Driven Switched Linear Systems. *Yuan, S.*, +, *TAC Nov. 2017 5802-5807*
- Adaptive Backstepping Quantized Control for a Class of Nonlinear Systems. *Yu, X.*, +, *TAC Feb. 2017 981-985*
- Adaptive Control via Extremum Seeking: Global Stabilization and Consistency of Parameter Estimates. *Radenkovic, M.S.*, +, *TAC May 2017 2350-2359*
- Adaptive Fault-Tolerant PI Tracking Control With Guaranteed Transient and Steady-State Performance. *Song, Y.*, +, *TAC Jan. 2017 481-487*
- Adaptive Finite-Time Stabilization of a Class of Uncertain Nonlinear Systems via Logic-Based Switchings. *Fu, J.*, +, *TAC Nov. 2017 5998-6003*
- Adaptive Optimal Control for Large-Scale Nonlinear Systems. *Michailidis, I.*, +, *TAC Nov. 2017 5567-5577*
- Adaptive Sliding-Mode Control of Markov Jump Nonlinear Systems With Actuator Faults. *Li, H.*, +, *TAC April 2017 1933-1939*
- Adaptive Source Localization Based Station Keeping of Autonomous Vehicles. *Guler, S.*, +, *TAC July 2017 3122-3135*
- An Efficient and Stabilizing Model Predictive Control of Switched Systems. *Hariprasad, K.*, +, *TAC July 2017 3401-3407*
- An Impulsive Delay Inequality Involving Unbounded Time-Varying Delay and Applications. *Li, X.*, +, *TAC July 2017 3618-3625*
- Analysis and Synthesis of Interconnected Positive Systems. *Ebihara, Y.*, +, *TAC Feb. 2017 652-667*
- Analyzing the Stability of Switched Systems Using Common Zeroing-Output Systems. *Lee, T.*, +, *TAC Oct. 2017 5138-5153*
- Anytime Capacity of a Class of Markov Channels. *Minero, P.*, +, *TAC March 2017 1356-1367*
- Bit Rate Conditions to Stabilize a Continuous-Time Scalar Linear System Based on Event Triggering. *Ling, Q.*, *TAC Aug. 2017 4093-4100*
- Boundary Control of Coupled Reaction-Advection-Diffusion Systems With Spatially-Varying Coefficients. *Vazquez, R.*, +, *TAC April 2017 2026-2033*
- Boundary Stabilization of Wave Equation With Velocity Recirculation. *Su, L.*, +, *TAC Sept. 2017 4760-4767*
- Characterizations of Integral Input-to-State Stability for Systems With Multiple Invariant Sets. *Forni, P.*, +, *TAC Aug. 2017 3729-3743*
- Conic Bounds for Systems Subject to Delays. *Bridgeman, L.J.*, +, *TAC April 2017 2006-2013*
- Consensus With Output Saturations. *Lim, Y.*, +, *TAC Oct. 2017 5388-5395*
- Construction of Synergistic Potential Functions on  $SO(3)$  With Application to Velocity-Free Hybrid Attitude Stabilization. *Berkane, S.*, +, *TAC Jan. 2017 495-501*
- Control for Itô Stochastic Systems With Input Delay. *Zhang, H.*, +, *TAC Jan. 2017 350-365*
- Control Under Stochastic Multiplicative Uncertainties: Part I, Fundamental Conditions of Stabilizability. *Qi, T.*, +, *TAC March 2017 1269-1284*
- Convex Parameterizations and Fidelity Bounds for Nonlinear Identification and Reduced-Order Modelling. *Tobenkin, M.M.*, +, *TAC July 2017 3679-3686*
- Coordination Over Multi-Agent Networks With Unmeasurable States and Finite-Level Quantization. *Meng, Y.*, +, *TAC Sept. 2017 4647-4653*
- Coprime Factors Model Reduction of Spatially Distributed LTV Systems Over Arbitrary Graphs. *Jaoude, D.A.*, +, *TAC Oct. 2017 5254-5261*
- Design of Coupled Harmonic Oscillators for Synchronization and Coordination. *Liu, X.*, +, *TAC Aug. 2017 3877-3889*
- Dissipativity Theory for Nonlinear Stochastic Dynamical Systems. *Rajpurohit, T.*, +, *TAC April 2017 1684-1699*
- Distributed Coordinated Tracking Control for a Class of Uncertain Multiagent Systems. *Wang, J.*, *TAC July 2017 3423-3429*
- Distributed Nash Equilibrium Seeking by a Consensus Based Approach. *Ye, M.*, +, *TAC Sept. 2017 4811-4818*
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- Distributed Stochastic MPC of Linear Systems With Additive Uncertainty and Coupled Probabilistic Constraints. *Dai, L.*, +, *TAC July 2017 3474-3481*
- Dynamic Output-Feedback Control for Singular Markovian Jump System: LMI Approach. *Kwon, N.K.*, +, *TAC Oct. 2017 5396-5400*
- Efficiently Attentive Event-Triggered Systems With Limited Bandwidth. *Li, L.*, +, *TAC March 2017 1491-1497*
- Estimation of Sampling Period for Stochastic Nonlinear Sampled-Data Systems With Emulated Controllers. *Gao, Y.*, +, *TAC Sept. 2017 4713-4718*
- Event-Triggered Adaptive Control for a Class of Uncertain Nonlinear Systems. *Xing, L.*, +, *TAC April 2017 2071-2076*
- Event-Triggered Global Robust Output Regulation for a Class of Nonlinear Systems. *Liu, W.*, +, *TAC Nov. 2017 5923-5930*
- Fault-Tolerant Control of Linear Quantum Stochastic Systems. *Wang, S.*, +, *TAC June 2017 2929-2935*
- Feedback Controller Norm Optimization for Linear Time Invariant Descriptor Systems With Pole Region Constraint. *Datta, S.*, *TAC June 2017 2794-2806*
- Finite-Time Stabilization via Sliding Mode Control. *Song, J.*, +, *TAC March 2017 1478-1483*
- Finite/Fixed-Time Stabilization for Nonlinear Interconnected Systems With Dead-Zone Input. *Hua, C.*, +, *TAC May 2017 2554-2560*
- Fundamental Limits on Uncertain Delays: When Is a Delay System Stabilizable by LTI Controllers?. *Qi, T.*, +, *TAC March 2017 1314-1328*
- General Stochastic Convergence Theorem and Stochastic Adaptive Output-Feedback Controller. *Li, F.*, +, *TAC May 2017 2334-2349*
- Global Stabilization of Stochastic Nonlinear Systems Via  $C^1$  and  $C^\infty$  Controllers. *Wang, H.*, +, *TAC Nov. 2017 5880-5887*
- Immersion and Invariance Stabilization of Nonlinear Systems Via Virtual and Horizontal Contraction. *Wang, L.*, +, *TAC Aug. 2017 4017-4022*
- Integral Action in Output Feedback for Multi-Input Multi-Output Nonlinear Systems. *Astolfi, D.*, +, *TAC April 2017 1559-1574*
- Intermittent Redesign of Analog Controllers via the Youla Parameter. *Mirkin, L.*, *TAC April 2017 1838-1851*
- Interval Homogeneity-Based Control for a Class of Nonlinear Systems With Unknown Power Drifts. *Su, Z.*, +, *TAC March 2017 1445-1450*
- LaSalle-Type Theorem and Its Applications to Infinite Horizon Optimal Control of Discrete-Time Nonlinear Stochastic Systems. *Zhang, W.*, +, *TAC Jan. 2017 250-261*
- Multiple Lyapunov Functions-Based Small-Gain Theorems for Switched Interconnected Nonlinear Systems. *Long, L.*, *TAC Aug. 2017 3943-3958*
- Multivalued Robust Tracking Control of Lagrange Systems: Continuous and Discrete-Time Algorithms. *Miranda-Villatoro, F.A.*, +, *TAC Sept. 2017 4436-4450*
- Necessary and Sufficient Stabilizing Conditions for Networked Control Systems With Simultaneous Transmission Delay and Packet Dropout. *Tan, C.*, +, *TAC Aug. 2017 4011-4016*
- New Results on Eigenvalue Distribution and Controller Design for Time Delay Systems. *Wang, H.*, +, *TAC June 2017 2886-2901*
- New Results on Stability of Slowly Switched Systems: A Multiple Discontinuous Lyapunov Function Approach. *Zhao, X.*, +, *TAC July 2017 3502-3509*
- Novel Summation Inequalities and Their Applications to Stability Analysis for Systems With Time-Varying Delay. *Chen, J.*, +, *TAC May 2017 2470-2475*
- On Control Lyapunov-Razumikhin Functions, Nonconstant Delays, Nonsmooth Feedbacks, and Nonlinear Sampled-Data Stabilization. *Pepe, P.*, *TAC Nov. 2017 5604-5619*
- On General Properties of Eigenvalues and Eigenfunctions of a Sturm-Liouville Operator: Comments on "ISS With Respect to Boundary Disturbances for 1-D Parabolic PDEs". *Orlov, Y.*, *TAC Nov. 2017 5970-5973*
- On Lyapunov-Metzler Inequalities and S-Procedure Characterizations for the Stabilization of Switched Linear Systems. *Heemels, W.P.M.H.*, +, *TAC Sept. 2017 4593-4597*
- On Passivity Analysis and Passivation of Event-Triggered Feedback Systems Using Passivity Indices. *Zhu, F.*, +, *TAC March 2017 1397-1402*
- On Stabilization of 2D Roesser Models. *Bachelier, O.*, +, *TAC May 2017 2505-2511*
- On Stabilization of Decentralized Systems Across Analog Erasure Links. *Liu, J.*, +, *TAC March 2017 1411-1416*
- On the Stability Margin of Networked Dynamical Systems. *Kim, Y.*, *TAC Oct. 2017 5451-5456*
- Optimal Distributed Control for Platooning via Sparse Coprime Factorizations. *Sabau, S.*, +, *TAC Jan. 2017 305-320*
- Optimal Estimation and Control for Lossy Network: Stability, Convergence, and Performance. *Lin, H.*, +, *TAC Sept. 2017 4564-4579*
- Output Feedback ILC for a Class of Nonminimum Phase Nonlinear Systems With Input Saturation: An Additive-State-Decomposition-Based Method. *Wei, Z.*, +, *TAC Jan. 2017 502-508*
- Output Feedback Stabilization for a Class of Multi-Variable Bilinear Stochastic Systems With Stochastic Coupling Attenuation. *Zhang, Q.*, +, *TAC June 2017 2936-2942*

- Penalty Functions for Handling Large Deviation of Quadrature States in NMPC. *Gros, S.*, +, *TAC Aug. 2017 3848-3860*
- Periodic Optimal Control, Dissipativity and MPC. *Zanon, M.*, +, *TAC June 2017 2943-2949*
- Predictor-Based Control of Systems With State Multiplicative Noise. *Gershon, E.*, +, *TAC Feb. 2017 914-920*
- Quadratic Model Predictive Control Including Input Cardinality Constraints. *Aguilera, R.P.*, +, *TAC June 2017 3068-3075*
- Qualitative Stability of Nonlinear Networked Systems. *Angulo, M.T.*, +, *TAC Aug. 2017 4080-4085*
- Reduced-Order Distributed Consensus Controller Design via Edge Dynamics. *Nguyen, D.H.*, *TAC Jan. 2017 475-480*
- Regularity and Lyapunov Stabilization of Weak Entropy Solutions to Scalar Conservation Laws. *Blandin, S.*, +, *TAC April 2017 1620-1635*
- Relationships Between Subclasses of Integral Input-to-State Stability. *Kellett, C.M.*, +, *TAC May 2017 2476-2482*
- Relaxed Logarithmic Barrier Function Based Model Predictive Control of Linear Systems. *Feller, C.*, +, *TAC March 2017 1223-1238*
- Resilient Stabilization of Switched Linear Control Systems Against Adversarial Switching. *Hu, J.*, +, *TAC Aug. 2017 3820-3834*
- Rigid Motions of 3-D Undirected Formations With Mismatch Between Desired Distances. *Sun, Z.*, +, *TAC Aug. 2017 4151-4158*
- Robust  $H_\infty$  Group Consensus for Interacting Clusters of Integrator Agents. *Qin, J.*, +, *TAC July 2017 3559-3566*
- Robust  $H_\infty$  Observer-Based Control of Fractional-Order Systems With Gain Parametrization. *Boukal, Y.*, +, *TAC Nov. 2017 5710-5723*
- Robust Event-Triggered MPC With Guaranteed Asymptotic Bound and Average Sampling Rate. *Brunner, F.D.*, +, *TAC Nov. 2017 5694-5709*
- Sampled-Data Stabilization of Nonlinear Dynamics With Input Delays Through Immersion and Invariance. *Monaco, S.*, +, *TAC May 2017 2561-2567*
- Self-Triggered Model Predictive Control for Nonlinear Input-Affine Dynamical Systems via Adaptive Control Samples Selection. *Hashimoto, K.*, +, *TAC Jan. 2017 177-189*
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