

IEEE

CONTROL SYSTEMS LETTERS

A PUBLICATION OF THE IEEE CONTROL SYSTEMS SOCIETY



OCTOBER 2019

VOLUME 3

NUMBER 4

ICSLBO

(ISSN 2475-1456)

PAPERS

Obtaining Consistent Parameter Estimators for Second-Order Modulus Models	<i>F. Ljungberg and M. Enqvist</i>	781
Self-Triggered Stochastic MPC for Linear Systems With Disturbances ...	<i>Z. Sun, V. Rostampour, and M. Cao</i>	787
Deterministic Optimality of the Steady-State Behavior of the Kalman–Bucy Filter	<i>C. Possieri and M. Sassano</i>	793
Linear Complementarity Systems and Cone-Copositive Lyapunov Stability	<i>L. Iannelli, R. Iervolino, and F. Vasca</i>	799
PID and State Feedback Controllers Using DNA Strand Displacement Reactions	<i>N. M. G. Paulino, M. Foo, J. Kim, and D. G. Bates</i>	805
Instant MPC for Linear Systems and Dissipativity-Based Stability Analysis	<i>K. Yoshida, M. Inoue, and T. Hatanaka</i>	811
Unified \mathcal{H}_∞ Observer for a Class of Nonlinear Lipschitz Systems: Application to a Real ER Automotive Suspension	<i>T.-P. Pham, O. Sename, and L. Dugard</i>	817
Output-Constrained Robust Adaptive Control for Uncertain Nonlinear MIMO Systems With Unknown Control Directions	<i>K. Sachan and R. Padhi</i>	823
Effects of Jamming Attacks on a Control System With Energy Harvesting	<i>S. Knorn and A. Teixeira</i>	829
Asymptotic Optimality of a Time Optimal Path Parametrization Algorithm	<i>I. Spasojevic, V. Murali, and S. Karaman</i>	835
Optimal Motion of a Scallop: Some Case Studies	<i>R. Maggistro and M. Zoppello</i>	841
On Node Controllability and Observability in Complex Dynamical Networks	<i>F. Lo Iudice, F. Sorrentino, and F. Garofalo</i>	847
Compensating for Sensor Error in the Model Predictive Control of Circadian Clock Phase	<i>L. S. Brown, E. B. Klerman, and F. J. Doyle</i>	853
Predictive Control Over a Dynamical Token Bucket Network	<i>S. Wildhagen, M. A. Müller, and F. Allgöwer</i>	859
Probabilistic State Transfer, Estimation and Measures for Optimal Actuator/Sensor Placement for Linear Systems With Packet Dropouts	<i>A. S. A. Dilip</i>	865
Solution Sets for Inverse Non-Cooperative Linear-Quadratic Differential Games	<i>J. Inga, E. Bischoff, T. L. Molloy, M. Flad, and S. Hohmann</i>	871
Optimal Control of Thermostatic Loads for Planning Aggregate Consumption: Characterization of Solution and Explicit Strategies	<i>F. A. C. C. Fontes, A. Halder, J. Becerril, and P. R. Kumar</i>	877
The Controllability Gramian, the Hadamard Product, and the Optimal Actuator/Leader and Sensor Selection Problem	<i>A. S. A. Dilip</i>	883

(Contents Continued on Page ii)



No Switching Policy Is Optimal for a Positive Linear System With a Bottleneck Entrance	889
..... <i>M. Sadeghi, M. A. Al-Radhawi, M. Margaliot, and E. D. Sontag</i>	
Vector Recovery for a Linear System Corrupted by Unknown Sparse Error Vectors With Applications to Secure State Estimation	895
..... <i>M. Zhang, S. Hui, M. R. Bell, and S. H. Žak</i>	
Adaptive Dynamic Programming Using Lyapunov Function Constraints ...	901
..... <i>T. Göhrt, P. Osinenko, and S. Streif</i>	
Cooperative Manipulation of an Unknown Payload With Concurrent Mass and Drag Force Estimation	907
..... <i>S. Thapa, R. V. Self, R. Kamalapurkar, and H. Bai</i>	
On a Two Cutters and Fugitive Ship Differential Game	913
..... <i>M. Pachter and P. Wasz</i>	
Decentralized Control for Guaranteed Individual Costs in a Linear Multi-Agent System: A Satisfaction Equilibrium Approach	918
..... <i>J. Veetaseveera, V. S. Varma, I. C. Morărescu, and J. Daafouz</i>	
Optimal Lyapunov-Based Reaching Time Bounds for the Super-Twisting Algorithm	924
..... <i>R. Seeber and M. Horn</i>	
Control Law Realification for the Feedback Stabilization of a Class of Diagonal Infinite-Dimensional Systems With Delay Boundary Control	930
..... <i>H. Lhachemi, R. Shorten, and C. Prieur</i>	
Optimal Linear Exponential Quadratic Gaussian Estimation With Intermittent Observations	936
..... <i>J. Xu, X. Wu, and Y. Tang</i>	
A Convex Relaxation for Model Predictive Control of a Class of Hammerstein Systems	942
..... <i>T. L. Vincent, G. Tang, and P. Weddle</i>	
Saddle-Flow Dynamics for Distributed Feedback-Based Optimization	948
..... <i>C.-Y. Chang, M. Colombino, J. Cortés, and E. Dall’Anese</i>	
A Graph-Theoretic Approach to the \mathcal{H}_∞ Performance of Leader–Follower Consensus on Directed Networks	954
..... <i>M. Pirani, H. Sandberg, and K. H. Johansson</i>	
Kinetic-Potential Energy Shaping for Mechanical Systems With Applications to Tracking	960
..... <i>J. Ferguson, A. Donaire, and R. H. Middleton</i>	
Systematic Design of Decentralized Algorithms for Consensus Optimization	966
..... <i>S. Han</i>	
Spatially Distributed Networked Sliding Mode Control	972
..... <i>J. Ludwiger, M. Steinberger, and M. Horn</i>	
Iterative Approximate Nonlinear Inference via Gaussian Message Passing on Factor Graphs	978
..... <i>C. H. né Hoffmann, E. Petersen, and P. Rostalski</i>	
Resilient Control for Cyber-Physical Systems Subject to Replay Attacks	984
..... <i>G. Franzè, F. Tedesco, and W. Lucia</i>	
On the Mixed-Integer Linear-Quadratic Optimal Control With Switching Cost	990
..... <i>A. De Marchi</i>	
Stabilization of Non-Linear Networked Control Systems Closed Over a Lossy WirelessHART Network	996
..... <i>A. I. Maass and D. Nešić</i>	
Allocating Marketing Resources Over Social Networks: A Long-Term Analysis	1002
..... <i>V. S. Varma, S. Lasaulce, J. Mounthanyvong, and I.-C. Morărescu</i>	
From Reference Model Selection to Controller Validation: Application to Loewner Data-Driven Control	1008
..... <i>P. Kergus, M. Olivi, C. Poussot-Vassal, and F. Demourant</i>	
An Input–Output Parametrization of Stabilizing Controllers: Amidst Youla and System Level Synthesis	1014
..... <i>L. Furieri, Y. Zheng, A. Papachristodoulou, and M. Kamgarpour</i>	
Simultaneous Estimation of State and Unknown Input With l_∞ Guarantee on Error-Bounds for Fuzzy Descriptor Systems	1020
..... <i>A.-T. Nguyen, T.-M. Guerra, and V. Campos</i>	
Full Order Observer With Unmatched Constraint: Unknown Parameters Identification	1026
..... <i>M. Fouka, L. Nehaoua, H. Arioui, and S. Mammar</i>	
The Effect of Uniform Quantization on Parameter Estimation of Compound Distributions	1032
..... <i>R. Seifullaev, S. Knorn, and A. Ahlén</i>	
On Stability of Consensus Control of Discrete-Time Multi-Agent Systems by Multiple Pinning Agents	1038
..... <i>D. Xu and T. Ushio</i>	
Model Predictive Control Design for Dynamical Systems Learned by Echo State Networks	1044
..... <i>L. B. Armenio, E. Terzi, M. Farina, and R. Scattolini</i>	
A Symbolic Approach to the Self-Triggered Design for Networked Control Systems	1050
..... <i>K. Hashimoto, A. Saoud, M. Kishida, T. Ushio, and D. V. Dimarogonas</i>	
Compositional Synthesis of Symbolic Models for Networks of Switched Systems ..	1056
..... <i>A. Swikir and M. Zamani</i>	
Globally Optimal Least-Squares ARMA Model Identification Is an Eigenvalue Problem	1062
..... <i>C. Vermeersch and B. De Moor</i>	
Active Perception and Control From Temporal Logic Specifications	1068
..... <i>R. R. da Silva, V. Kurtz, and H. Lin</i>	
Fast Optimal Energy Management With Engine On/Off Decisions for Plug-in Hybrid Electric Vehicles	1074
..... <i>S. East and M. Cannon</i>	
