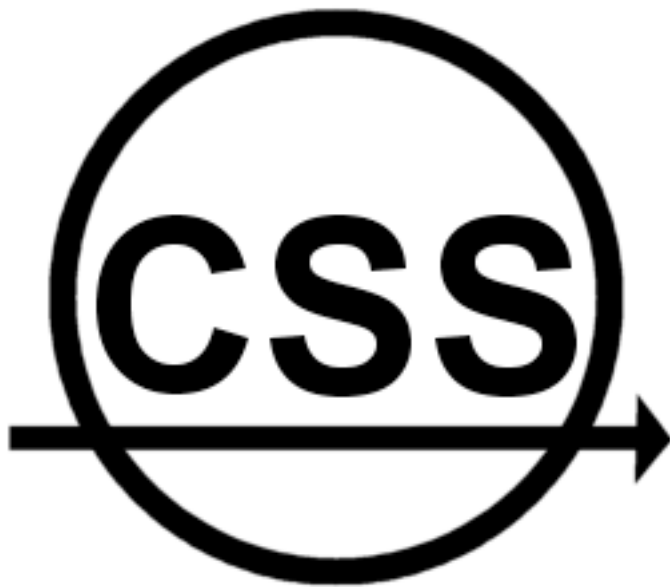


Publications Content Digest



June 2012

IEEE Control Systems Society

Society Periodicals

Tables of Content: June 2012

Vice-President, Publications Activities
Francis J. Doyle III, University of California

Journal Editors

IEEE Transactions on Automatic Control

<http://www.nd.edu/~ieeetac>

EIC, Panos J. Antsaklis, University of Notre Dame

IEEE Transactions on Control Systems Technology

<http://www.ieeecss.org/publications/tcst>

EIC, Thomas Parisini, Imperial College, UK

IEEE Control Systems Magazine

<http://www.ieeecss.org/publications/csm>

EIC, Richard D. Braatz, Massachusetts Institute of Technology

Electronics Editor

E-Letter on Systems, Control and Signal Processing

<http://www.ieeecss.org/publications/e-letter/e-letter>

Magnus Egerstedt, Georgia Institute of Technology

Submission and editorial instructions can be found on each publication's homepage.

For subscription to the monthly E-Letter, please visit:

<http://www.ieeecss.org/newsletter/subscriptions>



IEEE TRANSACTIONS ON AUTOMATIC CONTROL

A PUBLICATION OF THE IEEE CONTROL SYSTEMS SOCIETY



JUNE 2012

VOLUME 57

NUMBER 6

IETAA9

(ISSN 0018-9286)

Table of Contents

Full Text: [PDF](#) [42KB]

IEEE Transactions on Automatic Control
publication information

Full Text: [PDF](#) [38KB]

Scanning The Issue

Full Text: [PDF](#) [39 KB]

Papers

Identification of Fault Estimation Filter
From I/O Data for Systems With Stable
Inversion

J. Dong, M. Verhaegen

[Abstract](#) | Full Text: [PDF](#) [1022 KB]

Output-Based Event-Triggered Control
With Guaranteed L-infinity-Gain and
Improved and Decentralized Event-
Triggering

M. C. F. Donkers, W. P. M. H. Heemels

[Abstract](#) | Full Text: [PDF](#) [919 KB]

Combining Convex-Concave
Decompositions and Linearization
Approaches for Solving BMIs, With
Application to Static Output Feedback
Q. Tran Dinh, S. Gumussoy, W. Michiels,
M. Diehl

[Abstract](#) | Full Text: [PDF](#) [1028 KB]

Computational Complexity Certification
for Real-Time MPC With Input

Constraints Based on the Fast Gradient
Method

S. Richter, C. N. Jones, M. Morari

[Abstract](#) | Full Text: [PDF](#) [885 KB]

Adaptive Information Collection by
Robotic Sensor Networks for Spatial
Estimation

R. Graham, J. Cortes

[Abstract](#) | Full Text: [PDF](#) [1168 KB]

Stability of a Class of Linear Switching
Systems with Applications to Two
Consensus Problems

Y. Su, J. Huang

[Abstract](#) | Full Text: [PDF](#) [721 KB]

Quantized H-infinity Control for
Nonlinear Stochastic Time-Delay Systems
With Missing Measurements

Z. Wang, B. Shen, H. Shu, G. Wei

[Abstract](#) | Full Text: [PDF](#) [807 KB]

Verification of Bounded Discrete Horizon
Hybrid Automata

V. Vladimerou, P. Prabhakar, M.

Viswanathan, G. Dullerud

[Abstract](#) | Full Text: [PDF](#) [278 KB]

Inner Approximations for Polynomial Matrix Inequalities and Robust Stability Regions

D. Henrion, J. -B. Lasserre

[Abstract](#) | Full Text: [PDF](#) [1722 KB]

Stabilizing Model Predictive Control of Stochastic Constrained Linear Systems

D. Bernardini, A. Bemporad

[Abstract](#) | Full Text: [PDF](#) [823 KB]

Recursive Update Filtering for Nonlinear Estimation

R. Zanetti

[Abstract](#) | Full Text: [PDF](#) [585 KB]

Temporal Logic Control of Discrete-Time Piecewise Affine Systems

B. Yordanov, J. Tumova, I. Cerna, J. Barnat, C. Belta

[Abstract](#) | Full Text: [PDF](#) [1041 KB]

Technical Notes and Correspondence

System Theoretic Aspects of Influenced Consensus: Single Input Case

A. Chapman, M. Mesbahi

[Abstract](#) | Full Text: [PDF](#) [261 KB]

Fourier-Hermite Kalman Filter

J. Sarmavuori, S. Sarkka

[Abstract](#) | Full Text: [PDF](#) [265 KB]

A Decomposition Technique for Nonlinear Dynamical Systems Analysis

J. Anderson, A. Papachristodoulou

[Abstract](#) | Full Text: [PDF](#) [328 KB]

Robustness and Safe Sampling of Distributed-Delay Control Laws for Unstable Delayed Systems

F. Leonard, G. Abba

[Abstract](#) | Full Text: [PDF](#) [263 KB]

A Supervised Switching Control Policy for LPV Systems With Inaccurate Parameter Knowledge

L. Jetto, V. Orsini

[Abstract](#) | Full Text: [PDF](#) [261 KB]

LMI Relaxations for Reduced-Order Robust H-infinity Control of Continuous-Time Uncertain Linear Systems

C. M. Agulhari, R. C. L. F. Oliveira, P. L. D. Peres

[Abstract](#) | Full Text: [PDF](#) [250 KB]

Stochastic Barbalat's Lemma and Its Applications

Z. J. Wu, Y. Q. Xia, X. J. Xie

[Abstract](#) | Full Text: [PDF](#) [264 KB]

Discrete-Time Observer Error Linearizability via Restricted Dynamic Systems

H. -G. Lee, J.-M. Hong

[Abstract](#) | Full Text: [PDF](#) [224 KB]

Robust Finite-Horizon Kalman Filtering for Uncertain Discrete-Time Systems

S. M. K. Mohamed, S. Nahavandi

[Abstract](#) | Full Text: [PDF](#) [171 KB]

Distributed Containment Control with Multiple Dynamic Leaders for Double-Integrator Dynamics Using Only Position Measurements

J. Li, W. Ren, S. Wu

[Abstract](#) | Full Text: [PDF](#) [317 KB]

Extended H2 Controller Synthesis for Continuous Descriptor Systems

Y. Feng, M. Yagoubi, P. Chevrel

[Abstract](#) | Full Text: [PDF](#) [220 KB]

Characterization of Stability Region for General Autonomous Nonlinear Dynamical Systems

L. F. C. Alberto, H. -D. Chiang

[Abstract](#) | Full Text: [PDF](#) [421 KB]

EKF-Like Observer With Stability for a Class of Nonlinear Systems

L. Torres, G. Besancon, D. Georges

[Abstract](#) | Full Text: [PDF](#) [284 KB]

Synchronization of Dynamical Networks by Network Control

T. Liu, D. J. Hill, J. Zhao

[Abstract](#) | Full Text: [PDF](#) [436 KB]

Robust Inversion Based Fault Estimation for Discrete-Time LPV Systems

B. Kulcsar, M. Verhaegen

[Abstract](#) | Full Text: [PDF](#) [300 KB]

Adaptive Output Feedback Design Using Asymptotic Properties of LQG/LTR Controllers

E. Lavretsky

[Abstract](#) | Full Text: [PDF](#) [350 KB]

Single Integration Optimization of Linear Time-Varying Switched Systems

T. M. Caldwell, T. D. Murphy

[Abstract](#) | Full Text: [PDF](#) [202 KB]

Delay Robustness in Non-Identical Multi-Agent Systems

U. Munz, A. Papachristodoulou, F. Allgower

[Abstract](#) | Full Text: [PDF](#) [446 KB]

Fault Tolerance in Asynchronous Sequential Machines Using Output Feedback Control

J. -M. Yang

[Abstract](#) | Full Text: [PDF](#) [280 KB]

IEEE Foundation

Full Text: [PDF](#) [320 KB]

2012 IEEE Membership Form

Full Text: [PDF](#) [1368 KB]

IEEE Control Systems Society Information

Full Text: [PDF](#) [42 KB]

IEEE **control systems** MAGAZINE

JUNE 2012

Volume 32

Number 3

Front Cover

Full Text: [PDF](#) [788 KB]

Table of Contents

Full Text: [PDF](#) [591 KB]

Feedback Control [From the Editor]

R. D. Braatz

Full Text: [PDF](#) [114 KB]

Control at a Distance: Magnetic Targeting of Drugs [About This Issue]

R. D. Braatz

Full Text: [PDF](#) [1041 KB]

Fifty Years of CDCs: Rises, Falls, and Trends in Systems and Control [President's Message]

C. G. Cassandras

Full Text: [PDF](#) [994 KB]

CSS News

Full Text: [PDF](#) [592 KB]

CDC T-Shirts [25 Years Ago]

Full Text: [PDF](#) [95 KB]

IEEE Control Systems Magazine Board

Full Text: [PDF](#) [95 KB]

Financial Support Programs for Students [Member Activities]

S. S. Ge

Full Text: [PDF](#) [87 KB]

2012 CSS Fellows Class [Member Activities]

S. S. Ge

Full Text: [PDF](#) [499 KB]

Lino Guzzella [People in Control]

Full Text: [PDF](#) [235 KB]

Patrizio Colaneri [People in Control]

Full Text: [PDF](#) [904 KB]

Andrzej Banaszuk [People in Control]

Full Text: [PDF](#) [581 KB]

Towards Control of Magnetic Fluids in Patients: Directing Therapeutic Nanoparticles to Disease Locations

A. Nacev, A. Komae, A. Sarwar, R. Probst, S. H. Kim, M. Emmert-Buck, B. Shapiro
Full Text: [PDF](#) [20637 KB]

A Recollection of the 36th CDC in Kobe, Japan [Historical Perspectives]

Y. Yamamoto, H. Kimura
Full Text: [PDF](#) [90 KB]

2011 Joint 50th IEEE Conference on Decision and Control and European Control Conference [Conference Reports]

E. K. P. Chong
Full Text: [PDF](#) [8641 KB]

Book Announcements [Bookshelf]

Full Text: [PDF](#) [605 KB]

IEEE CDC 2012 in Maui, Hawai'i [CDC Preview]

J. A. Farrell
Full Text: [PDF](#) [4451 KB]

MSC 2012 - Dubrovnik, Croatia - Feel the Mediterranean! [MSC Preview]

S. Bogdan, M. Matijasevic
Full Text: [PDF](#) [2391 KB]

Minutes of the IEEE Control Systems Society Board of Governors Meeting [CSS Business]

Full Text: [PDF](#) [245 KB]

Conference Calendar

Full Text: [PDF](#) [89 KB]

Postpostmodern Robust Control [Random Inputs]

Full Text: [PDF](#) [1003 KB]



The 2012 American Control Conference

June 27-29, 2012

Montréal, Canada



Key Dates

Initial submissions due: ~~Sept. 25, 2011~~
Workshop proposals due: ~~Oct. 31, 2011~~
Acceptance/rejection: ~~Jan. 31~~
Final submissions due: ~~March 15~~
Advance registration due: ~~May 1~~

For more information, please visit: <http://a2c2.org/conferences/acc2012/index.php>



IEEE MSC 2012

2012 IEEE Multi-Conference on Systems and Control

October 3-5, 2012

Dubrovnik, Croatia

Key Dates

Special Session Proposal Submission: ~~Feb. 20~~

Tutorial and Workshop Proposals Submission: ~~Feb. 20~~

Technical Paper Submission: ~~Feb. 20~~

Notification of Acceptance: ~~Late May~~

Final Camera Ready Paper Due: **June 15**

For more information, please visit: <http://www.msc2012.org/>



51st IEEE Conference on Decision and Control
MAUI, HAWAII
DECEMBER 10-13, 2012



Key Dates

Submissions Open: ~~January 4~~
Session Proposals Due: ~~March 1~~
Initial Submissions Due: ~~March 7~~
Decisions Notification: **July**
Final Submission Open: **August 1**
Registration Opens: **August 1**
Final Submissions Due: **September 5**

For more information, please visit: <http://control.disp.uniroma2.it/cdc2012/>