TuM03, Evagoras
Predictive Control (Regular Session)
Chair: Maalouf, Aline I., Oxford Univ.
Co-Chair: Spanias, Andreas, Arizona State Univ.

Predictive Control of Temperature in a Batch Reactor with Discrete Inputs
Karer, Gorazd, Faculty of Electrical Engineering, Univ. of Ljubljana
Music, Gasper, Faculty of Electrical Engineering, Univ. of Ljubljana
Zupancic, Borut, Faculty of Electrical Engineering, Univ. of Ljubljana

Embedding Perceptual Metrics in Rate Control Algorithms
Atti, Venkatraman, Arizona State Univ.
Spanias, Andreas, Arizona State Univ.

A Simple Approach to Multivariable Control of Plants with Considerable Time Delay
Blazic, Saso, Univ. of Ljubljana
Skrjanc, Igor, Univ. of Ljubljana
Matko, Drago, Univ. of Ljubljana

Does the Time-Constant of the Reference Trajectory in Predictive Control Affect the Closed-Loop Stability?
Maalouf, Aline I., Oxford Univ.

An Orthogonal Partitioning Approach to Simplify Robust Model Predictive Control
Cychowski, M. T., Cork Inst. of Tech.
Ding, B., Hebei Univ. of Tech.
O'Mahony, T., Cork Inst. of Tech.

TuM04, Hall C
Computational Issues and Discrete-Event Systems (Invited Session)
Chair: Rohloff, Kurt, The Univ. of Illinois
Organizer: Rohloff, Kurt, The Univ. of Illinois

The Diagnosis of Failures Via the Combination of Distributed Observations (I)
Rohloff, Kurt R., The Univ. of Illinois

Safety Control of Hierarchical Synchronous Discrete Event Systems: A State-Based Approach (I)
Gaudin, Benoit, IRISA
Marchand, Herve, Irisa/inria Rennes

Maximum Likelihood Diagnosis in Partially Observable Finite State Machines (I)
Athanassopoulos, E., Univ. of Illinois at Urbana-Champaign
Hadjicostis, C. N., Univ. of Illinois at Urbana-Champaign

A Hierarchical Architecture for Nonblocking Control of Discrete Event Systems (I)
Schmidt, K., Univ. of Erlangen - Nuernberg
Moor, T., Univ. of Erlangen - Nuernberg
Perk, S., Univ. of Erlangen - Nuernberg

A Symbolic Approach to the Supervision of State Tree Structures (I)
Ma, Chuan, Univ. of Toronto
Wonham, W. M., Univ. of Toronto

TuM05, Tefkros
Process Control (Regular Session)
Chair: Caccavale, Fabrizio, Univ. degli Studi della Basilicata
Co-Chair: Daoutidis, Prodromos, Univ. of Minnesota

A Model-Based Control Scheme for Chemical Batch Reactors
Caccavale, F., Univ. degli Studi della Basilicata
Iamarino, M., Univ. degli Studi della Basilicata
Pierrì, F., Univ. degli Studi della Basilicata
Tufano, V., Univ. degli Studi della Basilicata

Control of Reaction-Convection Processes with Fast and Slow Reactions
Contou-Carrère, Marie-Nathalie, Univ. of Minnesota
Daoutidis, Prodromos, Univ. of Minnesota
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Curini Galletti, C., Univ. of Pisa

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Stathaki, Anna, Computer Tech. Inst.
Isaias, Padelis, Computer Tech. Inst.
Nilsson, Sara, IVL

Iterative Feedback Tuning Safe Switching Controllers ................................................... pp. 938-945
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Tzamti, Maria P., Halkis Inst. of Tech.
Chamilothoris, George E., Piraeus Inst. of Tech.

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Bobal, V., Tomas Bata Univ. in Zlin
Gazdos, F., Tomas Bata Univ. in Zlin

TuM06, Onisillos
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Chair: Canuto, Enrico S., Pol. di Torino
Co-Chair: Tzes, Anthony, Univ. of Patras

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Musso, Fabio, Pol. di Torino
Luca, Massotti, Pol. di Torino

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Dritsas, Leonidas, Univ. of Patras

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Hulsen, H., Fak.II, AMIR
Sievers, T., Fak.II, AMIR
Fatikow, S., Fak.II, AMIR

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Golbon, N., Behineh Niru

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Borovic, Bruno, Univ. of Texas at Arlington
Shacklock, Andrew, SIMTech
Lewis, Frank L., Univ. of Texas at Arlington

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Hong, C., Nanyang Tech. Univ.
Zhang, X. M., Nanyang Tech. Univ.
Liu, A. Q., Nanyang Tech. Univ.
Lewis, F. L., Univ. of Texas at Arlington

WePPL, Plenary Ballroom
Wednesday Plenary Talk (Plenary Session)
Chair: Polycarpou, Marios M., Univ. of Cyprus

A View of Cooperative Control for Autonomous Vehicles and Sensor Networks
Cassandras, Christos G., Boston Univ.

WeA01, Hall A
Control of Smart Structure Systems (Invited Session)
Chair: Song, Gangbing, Univ. of Houston
Co-Chair: Su, Chun-Yi, Concordia Univ.
Organizer: Song, Gangbing, Univ. of Houston, Organizer: Su, Chun-Yi, Concordia Univ.
Organizer: Li, Hong-Nan, Dalian Univ. of Tech., Organizer: Gu, Haichang, Univ. of Houston
Organizer: Grigoriadis, Karolos M., Univ. of Houston, Organizer: Ghorbel, Fathi H., Rice Univ.
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Lin, Pei-Yang, National Center for Res. on Earthquake Engineering
Roschke, Paul, National Center for Res. on Earthquake Engineering
Loh, C. H., National Center for Res. on Earthquake Engineering

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Ma, Xiao Qing, Concordia Univ.
Rakheja, Subhash, Concordia Univ.
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Liu, Min, Harbin Inst. of Tech.
Li, Jinhai, Harbin Inst. of Tech.
Guan, Xinchun, Harbin Inst. of Tech.
Ou, Jinping, Harbin Inst. of Tech.

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Ghorbel, Fathi H., Rice Univ.
Dabney, James B., Univ. of Houston

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Watkins, Richard J., United States Naval Acad.
Agrawai, Brij, Naval Postgraduate School

Fuzzy Control (Regular Session)
Chair: Liu, Derong, Univ. of Illinois at Chicago
Co-Chair: Bitsoris, Georges, Univ. of Patras

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Liu, Derong, Univ. of Illinois at Chicago

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Quadratic Stability and Stabilisation of Interval Takagi-Sugeno Model: LMI Approach ............................................. pp. 1035-1038
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Maquin, Didier, INPL

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Vassiliakl, M., Univ. of Patras
Aguilar-Martin, J., LAAS-CNRS
Bitsoris, G., Univ. of Patras
Aoevez, A., Tech. de Monterrey, Campus Estadio de Mexico

Meda-Campaña, J. A., Cinvestav Unidad – Gdl, Mexico
Castillo-Toledo, B., Cinvestav Unidad – Gdl, Mexico

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Modelling and Optimization (Regular Session)
Chair: Vajta, Miklos, Univ. of Twente
Co-Chair: Tsiotras, Panagiotis, Georgia Inst. of Tech.

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Ibeas, A., Univ. del Pais Vasco
Bilbao-Guillena, A., Univ. del Pais Vasco

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Jain, S., Georgia Inst. of Tech.
Tsiotras, P., Georgia Inst. of Tech.

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Mojallali, Hamed, Iran Univ. of Science and Tech., Amini, Rouzbeh, Aalborg Univ.
Izadi-Zamanabadi, Roozbeh, Aalborg Univ., Helbo, Jan, Aalborg Univ.
Jalali, Ali A., Iran Univ. of Science and Tech., Poshtan, Javad, Univ. of New Brunswick

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Shuai, Dianxun, East China Univ. of Science and Tech.

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Networked Control Systems (Regular Session)
Chair: Elia, Nicola, Iowa State Univ.
Co-Chair: Voulgaris, Petros G., Univ. of Illinois at Urbana-Champaign

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Dorato, P., Univ. of New Mexico

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Abdallah, C. T., Univ. of New Mexico
Dorato, P., Univ. of New Mexico

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Byrne, R. H., Sandia National Lab.

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Yadav, Vikas, Iowa State Univ.
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WeA05, Tefkros
Nonlinear Systems (Regular Session)
Chair: Kravaris, Costas, Univ. of Patras
Co-Chair: Gurfil, Pini, Tech. - Israel Inst. of Tech.

Marichal, Roberto, Univ. of La Laguna
Aracil, Javier, Univ. de Sevilla
Gordillo, Francisco, Univ. de Sevilla

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Mota, A. M., Univ. de Aveiro

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Chair: Kyprianou, Andreas, Univ. of Cyprus
Co-Chair: Achhab, M. Elarbi, Univ. Chouadb Doukkali

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Gaspar, Peter, Computer & Automation Inst. of HAS
Bokor, Jozsef, Hungarian Acad. of Sciences

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Intelligent Call Admission Control Using Fuzzy Logic in Wireless Network*
Ma, Yufeng, Huazhong Univ. of Science and Tech., Hu, Xiulin, Huazhong Univ. of Science and Tech.
Zhang, Yunyu, Huazhong Univ. of Science and Tech.

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Iterative Learning Control (Regular Session)
Chair: Moore, Kevin L., Johns Hopkins Univ.
Co-Chair: Saab, Samer S., Lebanese American Univ.
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Pozo, Francesc, Tech. Univ. of Catalonia
Rodellar, Jose, Tech. Univ. of Catalonia
Rossell, Josep M., Tech. Univ. of Catalonia

Robust Stability and Performance Analysis of a Longitudinal Aircraft Model Using Sum of Squares Techniques pp. 1281-1286
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Papageorgiou, Christakis, Univ. of Cambridge

Exponential Stabilization of Delay Neutral Systems under Sampled-Data Control pp. 1287-1291
Seuret, Alexandre, Ec. Centrale de Lille
Fridman, Emilia, Tel-Aviv Univ.
Richard, Jean-Pierre, Ec. Centrale de Lille

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Wang, Yijing, Tianjin Univ.
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Delay-Dependent Robust Stabilization for Uncertain Singular Time-Delay Systems*
Zhen, Hongping, Jiangsu Univ.

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Caines, Peter E., McGill Univ.
Shaikh, M. Shahid, McGill Univ.

Some Results on the Stability of Multi-Controlled System pp. 1304-1308
Di Palma, F., Univ. of Pavia
Scattolini, R., Pol. di Milano
Ferrara, A., Univ. of Pavia

Critical Observability and Hybrid Observers for Error Detection in Air Traffic Management pp. 1309-1314
Di Benedetto, M. D., Univ. of L'Aquila
Di Gennaro, S., Univ. of L'Aquila
Di Nuccio, A., Univ. of L'Aquila

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Miszic, Muzafer, Bilkent Univ.

Finite-Time Stability of Linear Impulsive Dynamical Systems*
Kabl, Natasa A., Lola Inst.

Robust Stability Analysis of Nonlinear Uncertain Singularly Impulsive Dynamical Systems*
Kabl, Natasa A., Lola Inst.

Nonlinear and Chaotic Systems (Regular Session)
Chair: Saccon, Alessandro, Univ. di Padova, Co-Chair: Parlange, Gianfranco, Univ. of Lecce

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Castillo Toledo, B., Cinvestav Unidad - Guadalajara
Loukanov, A., Cinvestav Unidad - Guadalajara
Rivera Dominguez, J., Cinvestav Unidad - Guadalajara

Nonlinear Reduced-Order Observer Design for State and Disturbance Estimation pp. 1327-1332
Kravaris, Costas, Univ. of Patras
Savvaglidis, Georgios, Univ. of Patras
Komaros, Michael, Univ. of Patras

Real-Time Chaos Stabilization Via Inverse Optimal Control pp. 1333-1336
Jimenez, Alexander, Univ. Distrital Francisco Jose de Caldas
Sanchez, Edgar N., Cinvestav Unidad - Gdl, Mexico
Chen, Guanrong, City Univ. of Hong Kong
Perez, Jose P., Cinvestav Unidad - Gdl, Mexico
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Saccon, Alessandro, Univ. di Padova

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Klancar, Gregor, Univ. of Ljubljana
Matko, Drago, Univ. of Ljubljana
Blazic, Saso, Univ. of Ljubljana

WeM06, Onisillos
Fault Diagnosis and Fault Tolerant Control (Invited Session)
Chair: Cassar, J.P., Univ. des Sciences et Tech. de LILLE
Co-Chair: Aitouche, Abdel, LAGIS/HEI
Organizer: Aitouche, Abdel, LAGIS/HEI
Organizer: Cassar, J.P., Univ. des Sciences et Tech. de LILLE

A Graphical Interpretation of the Structural Properties of a System (I) .......................................................... pp. 1355-1360
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Dulac, M., Univ. of Lille

Fault Tolerant Measurement and Monitoring of a Nonlinear Two-Tank System (I) .................................................. pp. 1361-1366
Zhang, P., Univ. of Duisburg-Essen
Ding, S. X., Univ. of Duisburg-Essen

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Capiluppi, Marta, Univ. of Bologna
Paoli, Andrea, Univ. of Bologna

Interval Time for Reconfiguration after Sensor Loss (I) .................................................................................. pp. 1373-1378
Dumont, P. E., LAGIS/HEI
Aitouche, A., LAGIS/HEI
Bayart, M., Polytech' Lille

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Akhenak, Abdelkader, CRAN-INPL
Maquin, Didier, CRAN-INPL

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Blanke, Mogens, Tech. Univ. of Denmark

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Chair: Taylor, James H., Univ. of New Brunswick
Co-Chair: Shimkin, Nahum, Technion-Israel Inst. of Tech.

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Ziv, Omer, Technion-Israel Inst. of Tech.
Shimkin, Nahum, Technion-Israel Inst. of Tech.

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Sayda, Atalla F., Univ. of New Brunswick

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Rahimi-Kian, Ashkan, Univ. of Tehran
Sadeghi, Behrooz, Univ. of Tehran
Tabarraei, Hamidreza, Univ. of Tehran

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Zhang, Yunong, National Univ. of Ireland, Maynooth

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Wang, Long, Peking Univ.
Chu, Tianguang, Peking Univ.
An Introduction of Dominant Genes in Genetic Algorithm for Scheduling of FMS

Chan, Felix T. S., The Univ. of Hong Kong
Chung, S. H., The Univ. of Hong Kong
Chan, P.L.Y., The Univ. of Hong Kong

Design Framework and 3-D Motion Control for Biomimetic Robot Fish

Yu, Junzhi, Peking Univ.
Wang, Long, Peking Univ.

A Novel Immune Detection Algorithm for Anomaly Detection

Zhang, Yajing, Yantai Univ.

BCG Data Clustering Using New Method So-Called Time-Frequency Moments Singular Value Decomposition (TF-M-SVD) and Artificial Neural Networks

Akhbardeh, Alireza, Tampere Univ. of Tech. Finland
Koivuluoma, Mikko, Tampere Univ. of Tech. Finland
Koivistainen, Teemu, Tampere Univ. of Tech. Finland
Väärä, Alpo, Tampere Univ. of Tech. Finland

BCG Data Discrimination Using Daubechies Compactly Supported Wavelet Transform and Neural Networks towards Heart Disease Diagnosis

Akhbardeh, Alireza, Tampere Univ. of Tech. Finland
Koivuluoma, Mikko, Tampere Univ. of Tech. Finland
Koivistoinen, Teemu, Tampere Univ. of Tech. Finland
Väärä, Alpo, Tampere Univ. of Tech. Finland

Dynamic System Control of Gas Jet Flames Distribution by Predictive Control Method

Sun, Xubin, Inst. of Automation, China
Wang, Hong, The Univ. of Manchester

H\textsubscript{\infty} Output-Feedback of Continuous-Time Linear Systems with State-Multiplicative Noise

Gershon, E., Tel-Aviv Univ.
Shaked, U., Tel-Aviv Univ.

A New Inclusion Criterion for the Stability of Interval Matrices

Franzè', Giuseppe, Univ. Degli Studi della Calabria
Balestrino, Aldo, Univ. di Pisa
Carotenuto, Luciano, Univ. Degli Studi della Calabria
Casavola, Alessandro, Univ. Degli Studi della Calabria

L-Step Ahead Optimal Robust Controller for Uncertain Auto-Regressive Systems

Nikolakopoulos, George, Univ. of Patras
Tzes, Anthony, Univ. of Patras

Information Filtering and Array Algorithms for Descriptor Systems

Padoan Jr., Antonio C., Univ. of Sao Paulo
Terra, Marco H., Univ. of Sao Paulo
Ishihara, João Y., Univ. of Brasilia

User-Friendly MATLAB Program for Control and Robust Stability Analysis of Systems with Parametric Uncertainties

Matusu, Raděk, Tomas Bata Univ. in Zlin
Prokop, Roman, Tomas Bata Univ. in Zlin

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Allon, Amit, Ben Gurion Univ. of The Negev
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Nelson, A. L., Univ. of South Florida
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Valavanis, K. P., Univ. of Southwestern Louisiana
Murphy, R. R., Univ. of South Florida

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Smogeli, Oyvind N., Norwegian Univ. of Science and Tech.
Ruth, Elivind, Norwegian Univ. of Science and Tech.
Sorensen, Asgeir J., Norwegian Univ. of Science And Tech.

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Ihle, Ivar-Andre F., Norwegian Univ. of Science and Tech.
Skjetne, Roger, Norwegian Univ. of Science and Tech.
Fossen, Thor I., Norwegian Univ. of Science and Tech.

A Unified Concept for Controlling a Marine Surface Vessel through the Entire Speed Envelope ........................................... pp. 1518-1523
Breivik, Morten, Norwegian Univ. of Science and Tech.
Fossen, Thor I., Norwegian Univ. of Science and Tech.

WeP05, Tefkros
Time-Delay Systems (Regular Session)
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