

Tuesday, 21 August 2007

Wednesday, 22 August 2007

Thursday, 23 August 2007

Friday, 24 August 2007

8:30-17:10	Registration				
9:00-10:00	Plenary 2				
10:10-10:40	SP1	SP2			
10:40-11:10	Coffee				
11:10-13:10	S1 ATF- NMPC	S5 NSCN-I	S10 NMST	S15 PDE-I	S19 NMI
13:10-14:10	Lunch				
14:10-14:40	SP3	SP4			
14:50-16:40	S2 ACT- NMPC	S6 NSCN-II	S11 MANS	S16 PDE-II	S20 MBFDA
16:40-17:10	Coffee				

8:30-17:10	Registration				
9:00-10:00	Plenary 3				
10:10-10:40	SP5	SP6			
10:40-11:10	Coffee				
11:10-13:10	S3 NA- NMPC	S7 ONS	S12 NASS	S17 TNS	S21 BBS
13:10-14:10	Lunch				TC Meeting
14:10-14:40	SP7	SP8			
14:50-16:40	S4 MPCA	S8 RENS	S13 SSSNI	S18 AANS	S22 NECBS
16:40-17:10	Coffee				

8:30-15:40	Registration				
9:00-9:30	SP9	SP10			
9:40-10:40	Poster 1	Poster 2			
10:40-11:10	Coffee				
11:10-13:10	S25 NCIA	S9 RONS	S14 NSS	S24 NCPED	S23 LANS
13:10-14:10	Lunch				
14:10-15:10	Plenary 4				
15:10-15:40	Closing Ceremony				

Technical Tours 09:00 - 16:00

13:00-16:00	Registration
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16:20-16:50	Opening
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16:50-17:50	Plenary 1
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17:50-19:30	Cocktail Reception
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19:00-21:00	Banquet
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Technical Tours 09:00 - 16:00

13:00-16:00

Registration

16:20-16:50

Opening

Prof. CWI Pistorius, Principal and Vice Chancellor, University of Pretoria

16:50-17:50

Plenary 1

The Pebble Bed Modular Reactor and the usage of systems engineering to establish new standards for the nuclear revival

Willie Theron, Pebble Bed Modular Reactor Ltd, South Africa

17:50-19:30

Cocktail Reception

8:30-17:10	Registration				
9:00-10:00	<p align="center">Plenary 2 A unifying point of view on output feedback designs Laurent Praly, Ecole des Mines de Paris, France</p>				
10:10-10:40	<p align="center">Semi-Plenary 1 Nonlinear control of PDEs: Are feedback linearization and geometric methods applicable? Miroslav Krstic, University of California, San Diego, USA</p>		<p align="center">Semi-Plenary 2 Control by (state-modulated) interconnection of port Hamiltonian systems Arjan van der Schaft, University of Groningen, The Netherlands</p>		
10:40-11:10	Coffee				
11:10-13:10	<p align="center">S1 ATF-NMPC Advances in theoretical foundations of NMPC</p>	<p align="center">S5 NSCN-I Nonlinear system complexity and networking I</p>	<p align="center">S10 NMST Nonlinear mathematical systems theory</p>	<p align="center">S15 PDE-I Boundary control of nonlinear PDEs I</p>	<p align="center">S19 NMI Nonlinear modeling and identification</p>
13:10-14:10	Lunch				
14:10-14:40	<p align="center">Semi Plenary 3 Controllability of Switched Systems Daizhan Cheng, Institute of Systems Science, Chinese Academy of Sciences, China</p>		<p align="center">Semi-Plenary 4 Nonlinear output regulation and cross-terms compensation Lorenzo Marconi University of Bologna, Italy</p>		
14:40-16:40	<p align="center">S2 ACT-NMPC Advances in computational techniques of NMPC</p>	<p align="center">S6 NSCN-II Nonlinear system complexity and networking II</p>	<p align="center">S11 MANS Mathematical analysis of nonlinear systems</p>	<p align="center">S16 PDE-II Boundary control of nonlinear PDEs II</p>	<p align="center">S20 MBFDA Model based feedback design and applications</p>
16:40-17:10	Coffee				

8:30-17:10	Registration				
9:00-10:00	Plenary 3				
10:10-10:40	Semi-Plenary 5 Analysis of the HIV dynamics Claude Moog, IRCCyN CNRS, France			Semi-Plenary 6 Adding robustness to nominal output feedback controllers for nonlinear systems: A nonlinear version of disturbance observer Hyungbo Shim, Seoul National University, Korea	
10:40-11:10	Coffee				
11:10-13:10	S3 NA-NMPC Novel applications of NMPC	S7 ONS Observation of nonlinear systems	S12 NASS New approaches to stability and stabilization	S17 TNS Tracking of nonlinear systems	S21 BBS Biological and biomedical systems
13:10-14:10	Lunch				TC Meeting
14:10-14:40	Semi-Plenary 7 Networked control systems: An emulation approach to controller design Dragan Netic, The University of Melbourne, Australia			Semi-Plenary 8 Model reduction by moments' matching Alessandro Astolfi Imperial College London, UK	
14:40-16:40	S4 MPCA Model Predictive Control with applications	S8 RENS Robust estimation of nonlinear systems	S13 SSSNI Stability and stabilization of systems with nonlinearities in the input	S18 AANS Algebraic approach to nonlinear systems	S22 NECBS Nonlinear estimation and control of biochemical systems
16:40-17:10	Coffee				

Friday, 24 August 2007

8:30-15:40	Registration				
9:00-9:30	SP9		SP10		
9:40-10:40	Poster 1		Poster 2		
10:40-11:10	Coffee				
11:10-13:10	S25 NCIA Nonlinear control in industrial applications	S9 RONS Robust observers of nonlinear systems	S14 NSS Nonlinear system stabilization	S24 NCPED Nonlinear control in power and electrical drives	S23 LANS Lab applications of nonlinear systems
13:10-14:10	Lunch				
14:10-15:10	Plenary session 4 Taking advantage of homogeneity: A unified framework for output feedback control of nonlinear systems Wei Lin, Case Western Reserve University, USA				
15:10-15:40	Closing Ceremony				

Date	Start Time	End Time	Paper
2007/08/21	04:50:00 PM	05:50:00 PM	The Pebble Bed Modular Reactor and the Usage of Systems Engineering to Establish New Standards for the Nu Willie Theron, Dieter Matzner and Louwrence Erasmus South Africa

Date	Start Time	End Time	Paper
2007/08/22	09:00:00 AM	10:00:00 AM	AMA unifying point of view on output feedback designs Vincent ANDRIEU and Laurent PRALY France

Date	Start Time	End Time	Paper
2007/08/22	10:10:00 AM	11:40:00 AM	NONLINEAR CONTROL OF PDES: ARE FEEDBACK LINEARIZATION AND GEOMETRIC METHODS APPLICA Miroslav Krstic and Rafael Vazquez United States

Date	Start Time	End Time	Paper
2007/08/22	10:10:00 AM	11:40:00 AM	Control by (state-modulated) interconnection of port-Hamiltonian systems Romeo Ortega, Arjan van der Schaft, Fernando Castanos and Alessandro Astolfi Netherlands

Date	Start Time	End Time	Paper
2007/08/22	11:10:00 AM	11:30:00 AM	Tube-based robust nonlinear model predictive control David Q. Mayne and Eric C. Kerrigan United Kingdom
2007/08/22	11:30:00 AM	11:50:00 AM	REGIONAL INPUT-TO-STATE STABILITY OF MIN-MAX MODEL PREDICTIVE CONTROL Davide Martino Raimondo, Daniel Limon, Mircea Lazar, Lalo Magni and Eduardo Fernandez Italy
2007/08/22	11:50:00 AM	12:10:00 PM	Model Predictive Control of Continuous Time Nonlinear Differential Algebraic Systems Johan Sjöberg, Rolf Findeisen and Frank Allgöwer Germany
2007/08/22	12:10:00 PM	12:30:00 PM	A DECENTRALIZED MPC ALGORITHM FOR NONLINEAR SYSTEMS Davide Martino Raimondo, Lalo Magni and Riccardo Scattolini Italy
2007/08/22	12:30:00 PM	12:50:00 PM	Model Predictive Control for Nonlinear Time-Delay Systems Tobias Raff, Carsten Angrick, Rolf Findeisen, Jung-Su Kim and Frank Allgöwer Germany

Date	Start Time	End Time	Paper
2007/08/22	11:10:00 AM	11:30:00 AM	Quantitative convergence analysis of multi-agent systems S. Emre Tuna and Rodolphe Sepulchre Belgium
2007/08/22	11:30:00 AM	11:50:00 AM	ENTROPY OF CURVES FOR NONLINEAR SYSTEMS CLASSIFICATION Aldo BALESTRINO, Andrea CAITI and Emanuele CRISOSTOMI Italy
2007/08/22	11:50:00 AM	12:10:00 PM	PMA model for the dynamical process of cluster formation Dirk Aeyels and Filip De Smet Belgium
2007/08/22	12:10:00 PM	12:30:00 PM	PMA Non-equilibrium Analysis and Control Framework for Communication Networks Tansu Alpcan, Paul Wang, Prashant G. Mehta and Tamer Basar Germany
2007/08/22	12:30:00 PM	12:50:00 PM	PMA Lyapunov ISS small-gain theorem for strongly connected networks Sergey N. Dashkovskiy, Björn S. Rüffer and Fabian R. Wirth Germany

Date	Start Time	End Time	Paper
2007/08/22	02:50:00 PM	03:10:00 PM	Computing the settling time for nonlinear step responses Torkel Glad Sweden
2007/08/22	03:10:00 PM	03:30:00 PM	A trajectory based approach for robust stability properties of infinite-dimensional systems Ying Tan, Dragan Nesic and Andrew Teel Australia
2007/08/22	03:30:00 PM	03:50:00 PM	Reduced Dynamic Inversion for Planar and Spatial Vehicles Alessandro Saccon, John Hauser and Ruggero Frezza Italy
2007/08/22	03:50:00 PM	04:10:00 PM	The Driven Rolling Torus John Hauser and Alessandro Saccon United States
2007/08/22	04:10:00 PM	04:30:00 PM	Ensemble Control on Lie Groups Jr-Shin Li and Navin Khaneja United States
2007/08/22	04:30:00 PM	04:50:00 PM	Homogeneous Eigenvalue Analysis for Complex Homogeneous Systems Nami Nakamura, Hisakazu Nakamura, Yuh Yamashita and Hirokazu Nishitani Japan

Date	Start Time	End Time	Paper
2007/08/22	11:10:00 AM	11:30:00 AM	AMON UNIFORM STABILIZATION OF A SEMILINEAR WAVE EQUATION WITH VARIABLE COEFFICIENTS UND Zhi-Chao Shao and Bao-Zhu Guo South Africa
2007/08/22	11:30:00 AM	11:50:00 AM	On the Boundary Control of Kirchhoff's Nonlinear String Omer Morgul and Shahram Shahruz Turkey
2007/08/22	11:50:00 AM	12:10:00 PM	Tracking control for a diffusion-convection-reaction system: combining flatness and backstepping Thomas Meurer and Andreas Kugi Austria
2007/08/22	12:10:00 PM	12:30:00 PM	Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities---Part I: Design Rafael Vazquez and Miroslav Krstic Spain
2007/08/22	12:30:00 PM	12:50:00 PM	Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities---Part III: Analysis Rafael Vazquez and Miroslav Krstic Spain

Date	Start Time	End Time	Paper
2007/08/22	11:10:00 AM	11:30:00 AM	Identification of the inertia matrix of a rotating body based on errors-in-variables models Byung-Eul Jun, Dennis Bernstein and Harris McClamroch Republic of Korea
2007/08/22	11:30:00 AM	11:50:00 AM	Using Manifold Learning for Nonlinear System Identification Henrik Ohlsson, Jacob Roll, Lennart Ljung and Torkel Glad Sweden
2007/08/22	11:50:00 AM	12:10:00 PM	Model Reduction of Nonlinear Differential-Algebraic Equations Johan Sjöberg, Torkel Glad and Kenji Fujimoto Sweden
2007/08/22	12:10:00 PM	12:30:00 PM	Port-based Finite Element Model of a Flexible Link Alessandro Macchelli, Stefano Stramigioli and Claudio Melchiorri Italy
2007/08/22	12:30:00 PM	12:50:00 PM	Approximation of fast species in kinetic networks using non-negative polynomials Klaas Martijn Nauta, Siep Weiland and Ton Backx Netherlands
2007/08/22	12:50:00 PM	01:10:00 PM	An identifiable control oriented dynamic friction model Luis Alvarez-Icaza and René Jiménez Mexico

Date	Start Time	End Time	Paper
2007/08/22	02:10:00 PM	02:40:00 PM	Controllability of Switched Systems Daizhan Cheng China

Date	Start Time	End Time	Paper
2007/08/22	02:10:00 PM	02:40:00 PM	Nonlinear output regulation and cross-terms compensation Lorenzo Marconi Italy

Date	Start Time	End Time	Paper
2007/08/22	02:50:00 PM	03:10:00 PM	A practical approach to predictive control for nonlinear processes Agustinho Plucenio, Daniel Pagano, Augusto Bruciapaglia and Julio E. Normey-Rico Brazil
2007/08/22	03:10:00 PM	03:30:00 PM	PMA STABILISING NONLINEAR PREDICTIVE CONTROL STRATEGY Smaranda Cristea and Cesar de Prada Spain
2007/08/22	03:30:00 PM	03:50:00 PM	Input to State Stabilising Nonlinear Model Predictive Control based on QP Jose Mare, Mircea Lazar and Jose De Dona Australia
2007/08/22	03:50:00 PM	04:10:00 PM	ADAPTIVE ROBUST MPC: AN EYE TOWARDS COMPUTATIONAL SIMPLICITY Darryl Dehaan, Veronica Adetola and Martin Guay Canada
2007/08/22	04:10:00 PM	04:30:00 PM	An Online Active Set Strategy for Fast Adjoint Based Nonlinear Model Predictive Control Leonard Wirsching, Hans Joachim Ferreau, Hans Georg Bock and Moritz Diehl Germany

Date	Start Time	End Time	Paper
2007/08/22	02:50:00 PM	03:10:00 PM	Robust structural synchronization in dynamical complex networks Sergej Celikovsky, Volodymyr Lynnyk and Guanrong Chen Czech Republic
2007/08/22	03:10:00 PM	03:30:00 PM	Grazing Analysis for Synchronization of chaotic hybrid system Djamila Benmerzouk and Jean-Pierre Barbot France
2007/08/22	03:30:00 PM	03:50:00 PM	Performance Control of Aggregate QoS Networking Processes Alexandru Murgu United Kingdom
2007/08/22	03:50:00 PM	04:10:00 PM	SWITCHED UNCERTAIN LINEAR SYSTEMS CONTROL BY ROBUST Hinf SMC SYNTHESIS Jie Lian, Georgi Marko Dimirovski and Jun Zhao Turkey

Date	Start Time	End Time	Paper
2007/08/22	11:10:00 AM	11:30:00 AM	Improving Convergence of Perturbation-based Extremum Seeking Methods for a class of differentially flat system Moncef Chioua, Bala Srinivasan, Michel Perrier and Martin Guay Canada
2007/08/22	11:30:00 AM	11:50:00 AM	Growth rate of switched homogeneous system S. Emre Tuna Belgium
2007/08/22	11:50:00 AM	12:10:00 PM	ABOUT THE OBSERVABILITY OF NONLINEAR SWITCHING SYSTEMS Rudy Kajdan, Didier Aubry and Frédéric Kratz France
2007/08/22	12:10:00 PM	12:30:00 PM	A Basic Convergence Result for Particle Filtering Xiao-Li Hu, Thomas B. Schön and Lennart Ljung Sweden
2007/08/22	12:30:00 PM	12:50:00 PM	Classification and Control for Driftless System in view of Parameter Error in Coordinate Transformation Tadasuke Matsumoto, Shigeki Nakaura and Mitsuji Sampei Japan
2007/08/22	12:50:00 PM	01:10:00 PM	Conservation laws for invariant functionals containing compositions Gastao S. F. Frederico and Delfim F. M. Torres Portugal

Date	Start Time	End Time	Paper
2007/08/22	02:50:00 PM	03:10:00 PM	Motion Planning for the heat equation with Radiation Boundary Conditions based on Finite Difference Semi-Discr Tilman Utz, Thomas Meurer and Andreas Kugi Austria
2007/08/22	03:10:00 PM	03:30:00 PM	BOUNDARY CONTROL OF SYSTEMS OF CONSERVATION LAWS : LYAPUNOV STABILITY WITH INTEGRA Valérie Dos Santos, Georges Bastin, Jean-Michel Coron and Brigitte d'Andréa-Novel Belgium
2007/08/22	03:30:00 PM	03:50:00 PM	Model based pipeline monitoring with leak detection Espen Hauge, Ole Morten Aamo and John-Morten Godhavn Norway
2007/08/22	03:50:00 PM	04:10:00 PM	Backstepping Boundary Control of Magnetohydrodynamic Channel Flow Rafael Vazquez, Eugenio Schuster and Miroslav Krstic Spain
2007/08/22	04:10:00 PM	04:30:00 PM	Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities---Part II: Examples Rafael Vazquez and Miroslav Krstic Spain

Date	Start Time	End Time	Paper
2007/08/22	11:10:00 AM	11:30:00 AM	Model Reduction of Nonlinear Systems: A Grey-Box Modeling Approach Leyla Ozkan, Reinout Romijn, Siep Weiland, Wolfgang Marquardt and Jobert Ludlage Netherlands
2007/08/22	11:30:00 AM	11:50:00 AM	AMA State Feedback Control Methodology for Nonlinear Systems with Time/State Dependent Input Delay Gildas Besancon, Didier Georges and Zohra Benayache France
2007/08/22	11:50:00 AM	12:10:00 PM	Computing feasible trajectories for control-constrained systems: the PVTOL example Giuseppe Notarstefano, John Hauser and Ruggero Frezza Italy
2007/08/22	12:10:00 PM	12:30:00 PM	REDUCTION OF AMPLITUDE DEPENDENT GAIN VARIATIONS IN CONTROL OF NON-LINEAR WIENER TYP Torbjorn Wigren and Linda Brus Sweden
2007/08/22	12:30:00 PM	12:50:00 PM	Adaptive control redesign for nonlinear sampled-data systems Laurent Burlion, Tarek Ahmed-Ali, Romain Postoyan and Françoise Lamnabhi-Lagarrigue France
2007/08/22	12:50:00 PM	01:10:00 PM	Output feedback regulation of a flexible joint manipulator Miguel Rios-Bolivar and Alirio Navas Venezuela

Date	Start Time	End Time	Paper
2007/08/23	10:10:00 AM	11:40:00 AM	Analysis of the HIV dynamics Claude Moog, Djomangan Adama Ouattara and Marie-José Mhawej France

Date	Start Time	End Time	Paper
2007/08/23	10:10:00 AM	11:40:00 AM	Analysis and Synthesis of Disturbance Observer as a Tool for Nonlinear Robust Control Juhoon Back and Hyungbo Shim Republic of Korea

Date	Start Time	End Time	Paper
2007/08/23	11:10:00 AM	11:30:00 AM	ASSESSMENT OF NONLINEAR PREDICTIVE CONTROL TECHNIQUES FOR DC-DC CONVERTERS A.G. Beccuti, M. Lazar, W.P.M.H Heemels, G. Papafotiou and M. Morari Switzerland
2007/08/23	11:30:00 AM	11:50:00 AM	Predictive control with robust dead-time compensation: Application to drug dosing during anesthesia Bismark Torrico, Robin De Keyser, Clara Ionescu and Julio E. Normey-Rico Brazil
2007/08/23	11:50:00 AM	12:10:00 PM	Mixed Integer Predictive Control of a Buck Boost Converter Daniel Sarabia, Martín J. Pomar, Julio E. Normey-Rico and César de Prada Brazil
2007/08/23	12:10:00 PM	12:30:00 PM	APPLICATION of a SMITH PREDICTOR based NONLINEAR PREDICTIVE CONTROLLER to a SOLAR POWER Manuel Gálvez-Carrillo, Robin De Keyser and Clara Ionescu Belgium
2007/08/23	12:30:00 PM	12:50:00 PM	Fast NMPC of a DC-DC converter: An exact Newton real-time iteration approach Julian Bonilla, Robin De Keyser, Moritz Diehl and Jairo Espinosa Belgium

Date	Start Time	End Time	Paper
2007/08/23	11:10:00 AM	11:30:00 AM	Discussions on observability and invertibility Wei Kang and Jean-Pierre Barbot United States
2007/08/23	11:30:00 AM	11:50:00 AM	Observer Design via Absolute Stability for a Class of Nonlinear Descriptor Systems Tobias Raff and Frank Allgöwer Germany
2007/08/23	11:50:00 AM	12:10:00 PM	SINGLE OUTPUT DEPENDENT QUADRATIC OBSERVABILITY NORMAL FORM Zheng Gang, Boutat Driss and Barbot Jean-Pierre France
2007/08/23	12:10:00 PM	12:30:00 PM	State estimation for two output systems in Discrete Time CLAUDIA CALIFANO, SALVATORE MONACO and DOROTHEE NORMAND-CYROT Italy
2007/08/23	12:30:00 PM	12:50:00 PM	A generalized normal form and nonlinear outputs for a cascade observer Driss Boutat, Salim Chaib, Frédéric Kratz and Hassan Hammouri France
2007/08/23	12:50:00 PM	01:10:00 PM	Homogeneous observers with dynamic high gains Vincent Andrieu, Laurent Praly and Alessandro Astolfi United Kingdom

Date	Start Time	End Time	Paper
2007/08/23	02:50:00 PM	03:10:00 PM	Constructive Safety using Control Barrier Functions Peter Wieland and Frank Allgower Germany
2007/08/23	03:10:00 PM	03:30:00 PM	Relaxed characterizations of smooth patchy control Lyapunov functions Rafal Goebel, Christophe Prieur and Andrew R. Teel France
2007/08/23	03:30:00 PM	03:50:00 PM	Uniting local and global output feedback controllers Christophe Prieur and Andrew R. Teel France
2007/08/23	03:50:00 PM	04:10:00 PM	Transitions between limit cycles for an underactuated system: virtual holonomic constraints approach Leonid Freidovich, Anton Shiriaev and Ian Manchester Sweden
2007/08/23	04:10:00 PM	04:30:00 PM	Port-contact systems in bilateral telemanipulation Cristian Secchi, Stefano Stramigioli and Cesare Fantuzzi Italy
2007/08/23	04:30:00 PM	04:50:00 PM	Port-based Energy Balance on Compact Manifolds Gou Nishida, Ryuji Enomoto, Masaki Yamakita and Zhiwei Luo Japan

Date	Start Time	End Time	Paper
2007/08/23	11:10:00 AM	11:30:00 AM	OUTPUT REGULATION: GEOMETRIC VIEWPOINTS Francesco Delli Priscoli, Alberto Isidori and Marconi Lorenzo Italy
2007/08/23	11:30:00 AM	11:50:00 AM	Towards a model-free output tracking of switched nonlinear systems Romain Bourdais, Michel Fliess, Cédric Join and Wilfrid Perruquetti France
2007/08/23	11:50:00 AM	12:10:00 PM	Generalized nonlinear maneuver regulation Jiangfeng Zhang South Africa
2007/08/23	12:10:00 PM	12:30:00 PM	TRACKING OF NONHOLONOMIC CHAINED-FORM SYSTEMS WITHOUT PERSISTENT EXCITATION Yu-Ping Tian and Ke-Cai Cao China
2007/08/23	12:30:00 PM	12:50:00 PM	Straight line path following for formations of underactuated surface vessels Alexey Pavlov, Even Børhaug, Elena Panteley and Kristin Yttersatd Pettersen Norway
2007/08/23	12:50:00 PM	01:10:00 PM	A new perspective on stable inversion of non-minimum phase nonlinear systems Alexey Pavlov and Kristin Y. Pettersen Norway

Date	Start Time	End Time	Paper
2007/08/23	02:50:00 PM	03:10:00 PM	On stability of a combined Gleevec and immune model chronic in leukemia: Exploiting delay system structure Silviu-Iulian Niculescu, Peter Kim, Peter Lee and Doron Levy France
2007/08/23	03:10:00 PM	03:30:00 PM	Linear and nonlinear methods for gene regulatory network inference Nicola Soranzo, Ginestra Bianconi and Claudio Altafini Italy
2007/08/23	03:30:00 PM	03:50:00 PM	BIFURCATION ANALYSIS OF THE CONTROL MECHANISM OF PACEMAKER ACTIVITY IN A MATHEMATICA Karima DJABELLA, Mayer LANDAU and Michel SORINE France
2007/08/23	03:50:00 PM	04:10:00 PM	A direct-inverse time interval observer. Application to biotechnological models. Marcelo Moisan and Olivier Bernard France
2007/08/23	04:10:00 PM	04:30:00 PM	Modelling of the co-infection dynamics of HIV-1 and M. tuberculosis Eben Francois du Toit South Africa
2007/08/23	04:30:00 PM	04:50:00 PM	ANAYSIS AND CONTROL DESIGN FOR HUMAN POSTURAL BALANCING SYSTEMS Chun-Liang Lin, Ching-Lung Li and Yu-Che Lin Taiwan Province of China

Date	Start Time	End Time	Paper
2007/08/23	02:10:00 PM	02:40:00 PM	NETWORKED CONTROL SYSTEMS: AN EMULATION APPROACH TO CONTROLLER DESIGN Dragan Nesic Australia

Date	Start Time	End Time	Paper
2007/08/23	02:10:00 PM	02:40:00 PM	MODEL REDUCTION BY MOMENT MATCHING Alessandro Astolfi United Kingdom

Date	Start Time	End Time	Paper
2007/08/23	02:50:00 PM	03:10:00 PM	On Relaxations Applicable to Model Predictive Control for Systems with Binary Control Signals Daniel Axehill, Lieven Vandenberghe and Anders Hansson Sweden
2007/08/23	03:10:00 PM	03:30:00 PM	Nonlinear Model Predictive Control of a Fast Parallel Robot Actuated by Pneumatic Muscles Dominik Schindele and Harald Aschemann Germany
2007/08/23	03:30:00 PM	03:50:00 PM	GEOMETRIC CONSTRUCTION OF PERIODIC TRAJECTORIES Kai Hoeffner, Nicolas Hudon and Martin Guay Canada
2007/08/23	03:50:00 PM	04:10:00 PM	NETWORKED DECENTRALIZED MPC FOR UNICYCLE VEHICLES FORMATION Massimo Vaccarini and Sauro Longhi Italy
2007/08/23	04:10:00 PM	04:30:00 PM	AN INTELLIGENT GENERALIZED PREDICTIVE CONTROLLER FOR SHIP STEERING YaoHua Hu, SuWu Xu and Zongnian Zhang China
2007/08/23	04:30:00 PM	04:50:00 PM	Stabilizing output feedback receding horizon control of sampled-data nonlinear systems via their approximate dis Ahmed Elaiw Egypt

Date	Start Time	End Time	Paper
2007/08/23	02:50:00 PM	03:10:00 PM	Nonlinear unknown input observer on a stochastic framework Thibault CHEVIRON, Franck PLESTAN and Abdelhamid CHRIETTE France
2007/08/23	03:10:00 PM	03:30:00 PM	Robust H-infinity Filtering for a Class of Nonlinear Discrete-Time Systems Daniel F. Coutinho, Carlos E. de Souza and Karina A. Barbosa Brazil
2007/08/23	03:30:00 PM	03:50:00 PM	PMA STOCHASTIC ROBUSTNESS APPROACH TO DESIGNING UNKNOWN INPUT OBSERVERS FOR NON-LIN Marcin Witczak, Przemyslaw Pretki and Jozef Korbicz Poland
2007/08/23	03:50:00 PM	04:10:00 PM	On the Hamiltonian Techniques for Designing Nonlinear Observers under Set-membership Uncertainty Mikhail Gusev and Alexander Kurzhanski Russian Federation
2007/08/23	04:10:00 PM	04:30:00 PM	ANALYSIS OF HOPF BIFURCATION FOR AN INTERNET CONGESTION CONTROL SYSTEM Mohammad Reza Jahed Motlagh, Behrooz Rezaie, Siavash Khorsandi and Morteza Analoui Iran (Islamic Republic of)
2007/08/23	04:30:00 PM	04:50:00 PM	ROBUST TRAJECTORY TRACKING FOR A CLASS OF UNCERTAIN NONLINEAR SYSTEMS Engelbert Gruenbacher and Luigi del Re Austria

Date	Start Time	End Time	Paper
2007/08/23	11:10:00 AM	11:30:00 AM	Stabilization of a class of nonlinear systems with saturating actuators via sliding mode control Maria Letizia Corradini, Giuseppe Orlando, Valentina Orsini and Gianfranco Parlangeli Italy
2007/08/23	11:30:00 AM	11:50:00 AM	ROBUST ADAPTIVE CONTROL OF NONLINEAR SYSTEMS WITH UNKNOWN INPUT HYSTERESIS WITH KP Yu-Feng Wang, Chun-Yi Su and Henry Hong Canada
2007/08/23	11:50:00 AM	12:10:00 PM	Stability Analysis for Systems with Backlash and Saturated actuator Sophie Tarbouriech and Christophe Prieur France
2007/08/23	12:10:00 PM	12:30:00 PM	A PRACTICAL METHOD FOR FIXED-ORDER ANTI-WINDUP DESIGN Jean-Marc BIANNIC, Clément ROOS and Sophie TARBOURIECH France
2007/08/23	12:30:00 PM	12:50:00 PM	Stability Criteria for Rate Limited Lur'e Systems with Connections to Magnitude Limits and Anti-windup Murray Kerr, Matthew Turner and Ian Postlethwaite United Kingdom
2007/08/23	12:50:00 PM	01:10:00 PM	Nonlinear L2 anti-windup for enlarged stability regions and regional performance Sergio Galeani, Simona Onori, Andrew R. Teel and Luca Zaccarian Italy

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2007/08/23	11:10:00 AM	11:30:00 AM	Construction of Flat Outputs by Reduction and Elimination Kurt Schlacher and Markus Schöberl Austria
2007/08/23	11:30:00 AM	11:50:00 AM	Generalized state equations for continuous-time bilinear input-output equations: removing the input derivatives Tanel Mullari, Ülle Kotta, Palle Kotta and Alan Zinober Estonia
2007/08/23	11:50:00 AM	12:10:00 PM	Irreducibility conditions for nonlinear input-output equations on homogeneous time scales Zbigniew Bartosiewicz, Ülle Kotta, Ewa Pawluszewicz and Malgorzata Wyrwas Estonia
2007/08/23	12:10:00 PM	12:30:00 PM	Pseudo-linear algebra: a powerful tool in unification of the study of nonlinear control systems Miroslav Halás and Ülle Kotta Slovakia
2007/08/23	12:30:00 PM	12:50:00 PM	The Pole-Zero Structure of Nonlinear Control Systems Anna Maria Perdon, Claude Moog and Giuseppe Conte Italy

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2007/08/23	11:10:00 AM	11:30:00 AM	Petri Net tools for the analysis of persistence in chemical networks David Angeli, Patrick De Leenheer and Eduardo Sontag Italy
2007/08/23	11:30:00 AM	11:50:00 AM	Discrete-time interval observers applied to cultures of phytoplankton Guillaume Goffaux, Alain Vande Wouwer and Olivier Bernard Belgium
2007/08/23	11:50:00 AM	12:10:00 PM	ON AUTOMATIC SEEKING OF OPTIMAL STEADY-STATES IN BIOCHEMICAL PROCESSES Georges Bastin, Dragan Nesic, Ying Tan and Iven Mareels Belgium
2007/08/23	12:10:00 PM	12:30:00 PM	A formal framework for multiplicity detection and its implications in robust control of biochemical networks Irene Otero-Muras, Antonio A. Alonso and Julio R. Banga Spain
2007/08/23	12:30:00 PM	12:50:00 PM	On The Use of Nonlinear Receding-Horizon Observers in Batch Terpolymerization Processes with Partially Unmc Mazen ALAMIR, Nida SHEIBAT-OTHMAN and Sami OTHMAN France
2007/08/23	12:50:00 PM	01:10:00 PM	Convergence of multi-unit optimization with non-identical units: application to the optimization of a bioreactor Lyne Woodward, Michel Perrier and Bala Srinivasan Canada

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2007/08/24	09:40:00 AM	10:40:00 AM	Fault-tolerant control of heavy haul trains Xiangtao Zhuan South Africa
2007/08/24	09:40:00 AM	10:40:00 AM	Synthesis of complete orthonormal fractional basis functions with prescribed poles Huseyin Akcay Turkey
2007/08/24	09:40:00 AM	10:40:00 AM	DATA-BASED VALIDATION OF NONLINEAR MODELS Matias Waller, Mikael Rönn and Henrik Saxén Finland
2007/08/24	09:40:00 AM	10:40:00 AM	APPLICATION OF RESET CONTROL TO A BATCH REACTOR IN THE PRECIOUS GROUP METALS INDUST Roanne Lahee South Africa
2007/08/24	09:40:00 AM	10:40:00 AM	On Optimizing Nonlinear Adaptive Control Allocation With Actuator Dynamics Johannes Tjønnås and Tor Arne Johansen Norway
2007/08/24	09:40:00 AM	10:40:00 AM	Strong Feasibility in Input-Move-Blocking Model Predictive Control Ravi Gondhalekar and Jun-ichi Imura Japan
2007/08/24	09:40:00 AM	10:40:00 AM	On Stability and Control of Systems with Time-Varying Sampling Period and Time Delay Michal Izák, Daniel Görges and Steven Liu Germany
2007/08/24	09:40:00 AM	10:40:00 AM	Stabilization of linear switched controlled systems Zoltan Szabo, Jozsef Bokor and Gary Balas Hungary

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- 2007/08/24 09:40:00 AM 10:40:00 AM NEURO-FUZZY CONTROL OF A SINGLE POINT LATHE CUTTING TOOL
Rapelang Marumo, Oboetse Motsamai and T Bodika
Botswana
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Nonlinear control of a sequential inspection operation
Meir Pachter, Phillip Chandler and Darbha Swaroop
United States
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Optimal Control of Motion in a Resistive Media by Means of Internal Masses.
Felix L. Chernousko
Russian Federation
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- 2007/08/24 09:40:00 AM 10:40:00 AM ESTIMATION OF PARSIMONIOUS DISCRETE VOLTERRA SERIES
Robert Harrison and Tony Dodd
United Kingdom
-
- 2007/08/24 09:40:00 AM 10:40:00 AM OPTIMAL CLOSED-LOOP CONTROLLER DESIGN FOR AN ION EXCHANGE PROCESS USED FOR DESALIN
N Dube
South Africa
-
- 2007/08/24 09:40:00 AM 10:40:00 AM A NEURAL NETWORK MODEL FOR CONTROL OF WASTEWATER TREATMENT PROCESSES
Carl Kriger and Raynitchka Tzoneva
South Africa
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- 2007/08/24 09:40:00 AM 10:40:00 AM GPS-Denied Source Seeking for a Nonholonomic Unicycle via Heading Control
Jennie Cochran, Antranik Siranosian, Nima Ghods, Daniel Arnold and Miroslav Krstic
United States
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- 2007/08/24 09:40:00 AM 10:40:00 AM Logic Based Design of Optimal Reconfiguration Strategies for Ship Power Systems
Harry Kwatny, Ed Mensah, Dagmar Niebur, Gaurav Bajpai and Carole Teolis
United States
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- 2007/08/24 09:40:00 AM 10:40:00 AM Nonlinear control system inversion using Lie symmetries
Richard Ocaya and Brian Wigdorowitz
South Africa
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Extraction of Motion for 4-Wheel Drive, 4-Wheel Steer Mobile Robot with Reduced Order Hamiltonian Model
Kursat Yalcin, Murat Yesiloglu and Hakan Temeltas
Turkey
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Sensorless Sliding Mode Control for Electromagnet
Pavel Shavrin, Alexander Gostkov and Sergey Kochetkov
Russian Federation
-
- 2007/08/24 09:40:00 AM 10:40:00 AM AN EXTENDED UNKNOWN INPUT OBSERVER-BASED APPROACH TO FAULT DIAGNOSIS OF A TWO-TAN
Jozef Korbicz and Marcin Witczak
Poland
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Identifiability of the Parameters of a Nonlinear Model of the Cerebrospinal Fluid System
Ian Manchester, Kennet Andersson, Anders Eklund and Anton Shiriaev
Sweden
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Explicit Form of Lyapunov Functions for a Class of Nonlinear Feedback Systems Augmented by Observers
Anton Shiriaev, Rolf Johansson and Anders Robertsson
Sweden
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Interpolation problems on Riemannian manifolds - a geometric approach -
Rui Rodrigues and Fátima Silva Leite
Portugal
-
- 2007/08/24 09:40:00 AM 10:40:00 AM An Adaptive Robust State Observer Scheme for a Class of Uncertain Nonlinear Dynamical Systems
Hansheng Wu
Japan
-

2007/08/24 09:40:00 AM 10:40:00 AM Multivariable RBF-ARX Model-Based Predictive Control for Nonlinear Systems

Hui Peng
China

2007/08/24 09:40:00 AM 10:40:00 AM Geometrical conditions for observer error linearization with a diffeomorphism on the outputs.

Driss Boutat, Abderraouf Benali and Hassan Hammouri
France

2007/08/24 09:40:00 AM 10:40:00 AM A foliation for unknown inputs reconstruction

Salim Chaib, Driss Boutat, Abderraouf Benali and Frédéric Kratz
France

2007/08/24 09:40:00 AM 10:40:00 AM Passivity-based Controller for N-phase APF

Shengwei Mei
China

2007/08/24 09:40:00 AM 10:40:00 AM H-INFINITY SMOOTHER FOR LIPSCHITZ NONLINEAR SYSTEMS

Philippe Neveux and Eric Blanco
France

2007/08/24 09:40:00 AM 10:40:00 AM MODEL-FREE HIGH ORDER DIFFERENTIAL STATES OBSERVER FOR NONLINEAR AFFINE SYSTEM

Guoyuan Qi, Michaël Antonie van Wyk and Barend Jacobus van Wyk
South Africa

2007/08/24 09:40:00 AM 10:40:00 AM Constrained Controllability of Semilinear Systems with Multiple Delays in Control

Klamka Jerzy
Poland

2007/08/24 09:40:00 AM 10:40:00 AM ROBUST FLATNESS BASED CONTROLLER DESIGN USING INTERVAL METHODS

Marco Kletting, Felix Anritter and Eberhard P. Hofer
Germany

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- 2007/08/24 09:40:00 AM 10:40:00 AM Feedback linearization based control of a rotational hydraulic drive
Jaho Seo, Ravinder Venugopal and Jean-Pierre Kenne
Canada
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Hybrid Optimal Control of an Automated Manual Transmission System
Gianluca Lucente, Marcello Montanari and Carlo Rossi
Italy
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Neural Network-based Dynamic Inversion Controller for Fighter Aircrafts
Jimoh Pedro and Nicolas Meyer
South Africa
-
- 2007/08/24 09:40:00 AM 10:40:00 AM DATA BASED QUANTIFICATION OF SYSTEM NONLINEARITY
Shoukat Choudhury and Sirish Shah
Canada
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Observer-Based Brake Control for Railways
Gaspar Peter, Szabo Zoltan and Bokor Jozsef
Hungary
-
- 2007/08/24 09:40:00 AM 10:40:00 AM A Flat Model Predictive Controller for Trajectory Tracking in Image Based Visual Servoing
Allibert Guillaume, Courtial Estelle and Touré Youssoufi
France
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Controllability of isospectral bilinear control systems on complex flag manifolds
Claudio Altafini
Italy
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Model and robust control of an electropneumatic actuator on a experimental setup
Alexis GIRIN, Franck PLESTAN, Xavier BRUN, Alain GLUMINEAU and Mohamed SMAOUI
France
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- 2007/08/24 09:40:00 AM 10:40:00 AM PID+ backstepping control of relative spacecraft attitude
Thomas R. Krogstad, Raymond Kristiansen, Jan Tommy Gravdahl and Per Johann Nicklass
Norway
-
- 2007/08/24 09:40:00 AM 10:40:00 AM CRITERIA AND TIME HORIZON IN FEEDFORWARD MPC FOR NON-LINEAR SYSTEMS WITH TIME DELAYS
Torbjorn Wigren and Linda Brus
Sweden
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Constructive Transformation of Nonlinear Systems into a Special State Affine MIMO Forms and Nonlinear Obsen
Ibrahim SOULEIMAN and Alain GLUMINEAU
France
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- 2007/08/24 09:40:00 AM 10:40:00 AM Geometrical conditions for observer error linearization via $\int_0^1 \dots \int_0^1$
Driss Boutat
France
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Adaptive State Feedback Control of Nonlinearly Parameterized Time-Delay Systems
Xiaohong Jiao, Tielong Shen and Yuanzhang Sun
China
-
- 2007/08/24 09:40:00 AM 10:40:00 AM Geometric Analysis of Time Variant Hamiltonian Control Systems
Markus Schöberl, Richard Stadlmayr and Kurt Schlacher
Austria
-

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2007/08/24	11:10:00 AM	11:30:00 AM	CONTROL LAWS FOR AUTOMATIC TAKE-OFF USING ROBUST NONLINEAR INVERSION TECHNIQUES Fabrice Villaume and Matthieu Jeanneau France
2007/08/24	11:30:00 AM	11:50:00 AM	ROBUST MPC OF A RUN-OF-MINE ORE MILLING CIRCUIT LC Coetzee and IK Craig South Africa
2007/08/24	11:50:00 AM	12:10:00 PM	SIMULATED NEUROCONTROL OF AN AUTOGENOUS MILL WITH EVOLUTIONARY REINFORCEMENT LEA J W De Villiers Groenewald, Chris Aldrich, Jacques J Eksteen, Alex v E Conradie and Leon South Africa
2007/08/24	12:10:00 PM	12:30:00 PM	MOVING HORIZON ESTIMATION FOR AN INDUSTRIAL GAS PHASE POLYMERIZATION REACTOR Jasmeer Ramlal, Kenneth Allsford, John Hedengren and John Hedengren United States
2007/08/24	12:30:00 PM	12:50:00 PM	A Variable Structure Adaptive Pole Placement Control Applied to the Speed Control of a Three-Phase Induction Francisco Silva Junior and Aldayr Araujo Brazil
2007/08/24	12:50:00 PM	01:10:00 PM	Adaptive state estimation in a shear building René Jiménez and Luis Alvarez-Icaza Mexico

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2007/08/24	11:10:00 AM	11:30:00 AM	Tyre/Road Friction Estimation Using a Sliding Mode Based Observer Nitin Patel, Christopher Edwards and Sarah Spurgeon United Kingdom
2007/08/24	11:30:00 AM	11:50:00 AM	Design of a Confidence Interval Observer - Application to Vehicle Positioning Guillaume Goffaux, Alain Vande Wouwer and Marcel Remy Belgium
2007/08/24	11:50:00 AM	12:10:00 PM	Sensor FDI for a class of nonlinear systems based on a sliding mode observer Xing-Gang Yan and Christopher Edwards United Kingdom
2007/08/24	12:10:00 PM	12:30:00 PM	Design and analysis of a nonlinear observer for a hydraulic servo system Maria Werlefors and Alexander Medvedev Sweden
2007/08/24	12:30:00 PM	12:50:00 PM	SLIDING MODE CONTROLLER DESIGN FOR SENSORLESS INDUCTION MOTOR: EXPERIMENTAL TESTS Dramane TRAORE, Jesus DE LEON, Alain GLUMINEAU and Luc LORON France
2007/08/24	12:50:00 PM	01:10:00 PM	An algebraic parameter estimation approach for the adaptive observer-controller based regulation of the "boost" () Hebertt Sira-Ramirez, Mario Spinetti-Rivera and Enric Fossas-Collet Mexico

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2007/08/24	11:10:00 AM	11:30:00 AM	AMA note on robust nonlinear control of feedforward systems with unmodeled dynamics Tianshi Chen and Jie Huang Hong Kong Special Administrative R
2007/08/24	11:30:00 AM	11:50:00 AM	Some results on robust output feedback stabilization of nonlinear systems Lorenzo Marconi and Laurent Praly Italy
2007/08/24	11:50:00 AM	12:10:00 PM	Matrix Set Measure for Stability of Switched Linear Systems Zhendong Sun China
2007/08/24	12:10:00 PM	12:30:00 PM	Stabilization of homogeneous systems using implicit control Lyapunov functions Hisakazu Nakamura, Nami Nakamura and Hirokazu Nishitani Japan
2007/08/24	12:30:00 PM	12:50:00 PM	ON FEEDBACK STABILIZATION OF NONAFFINE DISCRETE TIME NONLINEAR SYSTEMS WITH TIME DELAY woihida Aggoune France

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2007/08/24	02:50:00 PM	03:10:00 PM	The gap between nonlinear control theories and applications in power systems Yuanzhang Sun and Fang Yang China
2007/08/24	03:10:00 PM	03:30:00 PM	Flexible nonlinear control technique with applications to power systems Mark Gordon and David Hill Australia
2007/08/24	03:30:00 PM	03:50:00 PM	Voltage regulation in networked electrical power systems for distributed generation: a constrained supervisory ap Alessandro Casavola, Giuseppe Franze' and Natalino Carelli Italy
2007/08/24	03:50:00 PM	04:10:00 PM	Estimation of the region of attraction for a boost DC-AC Converter control law Carolina Albea and Francisco Gordillo Spain
2007/08/24	04:10:00 PM	04:30:00 PM	Tracking Control of the Angular Velocity of a DC-Motor via a Boost-Converter Felix Anritter and Johannes Tautz Germany
2007/08/24	04:30:00 PM	04:50:00 PM	On the generalized proportional integral multilevel sigma delta sliding mode control of a "buck" converter Hebertt Sira-Ramirez Mexico

Date	Start Time	End Time	Paper
2007/08/24	02:50:00 PM	03:10:00 PM	PMA Note on the Control of a Spherical Inverted Pendulum Guangyu Liu, Mareels Iven and Nesic Dragan Australia
2007/08/24	03:10:00 PM	03:30:00 PM	OUTPUT FEEDBACK DESIGN OF A TWIN PENDULUM SYSTEM IN PRESENCE OF SENSOR BIAS André Murilo A. Pinto and Mazen Alamir France
2007/08/24	03:30:00 PM	03:50:00 PM	PMA Velocity Estimator relying on Friction Observer: Application to inverted pendulum stabilization Roland Lenain, Anders Robertsson, Rolf Johansson, Anton Shiriaev and Michel Berducat France
2007/08/24	03:50:00 PM	04:10:00 PM	Linearization Based H-inf Robust Stabilizing PID Control for Active Magnetic Bearings Fuat Gurleyen and Cagri Bahadir Turkey
2007/08/24	04:10:00 PM	04:30:00 PM	Discrete-time model reference controller design for a combustion engine test bench Dina Shona Laila, Engelbert Gruenbacher and Luigi del Re Austria

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2007/08/24	02:10:00 PM	03:10:00 PM	TAKING ADVANTAGE OF HOMOGENEITY: A UNIFIED FRAMEWORK FOR OUTPUT FEEDBACK CONTROL Wei Lin United States
