
MANCHESTER A

FM01

Nonlinear discrete time robustness

Chair: Kothare, Mayuresh V. Lehigh Univ.
 Co-chair: Michel, Anthony N. Univ. of Notre Dame

13:00
On the design of a controller based on the discrete-time approximation of the nonlinear plant model

Nesic, Dragan Univ. of California at Santa Barbara
 Teel, Andrew R. Univ. of California at Santa Barbara
 Kokotovic, Petar V. Univ. of California at Santa Barbara

13:20
Robustness analysis of a class of discrete-time systems with applications to neural networks

Feng, Zhaoshu Univ. of Notre Dame
 Michel, Anthony N. Univ. of Notre Dame

13:40
Robustness analysis of digital feedback control systems with time-varying sampling periods

Hu, Bo Univ. of Notre Dame
 Michel, Anthony N. Univ. of Notre Dame

14:00
Enhancing noise robustness in discrete-time nonlinear observers

Grossman, Walter D. Applied Systems Engineering, Inc.

14:20
Partial compensation of uncertain discrete-time dynamical systems

Chen, Ye-Hwa Georgia Inst. of Tech.
 Wang, Wen-June National Central Univ.
 Hsiao, Chun-Hui National Central Univ.

14:40
Digital linear state feedback control subject to electromagnetic disturbances

Gray, W. Steven Old Dominion Univ.
 Gonzalez, Oscar R. Old Dominion Univ.
 Dogan, Mustafa Old Dominion Univ.

MANCHESTER B

FM02

Adaptive learning and robust control of strongly nonlinear systems

Chair: Liberzon, Daniel Yale Univ.
 Organizer: Liberzon, Daniel Yale Univ.

13:00
Control of symmetric mechanical systems with incomplete model information using reduction, dynamic feedback and flatness (I)

Barany, Ernest J. New Mexico State Univ.
 Colbaugh, Richard New Mexico State Univ.

13:20
Motion / force control of uncertain acatastatic nonholonomic mechanical systems via sliding modes (I)

Su, Chun-Yi Concordia Univ.
 Stepanenko, Yury Univ. of Victoria

13:40
Nonholonomic control based on approximate inversion (I)

Morgansen, Kristi A. Harvard Univ.
 Brockett, Roger W. Harvard Univ.

14:00
Towards the supervisory control of uncertain nonholonomic systems (I)

Hespanha, Joao Pedro Yale Univ.
 Liberzon, Daniel Yale Univ.
 Morse, A. Stephen Yale Univ.

14:20
Robust controller design for uncertain nonholonomic systems (I)

Jiang, Zhong Ping Polytechnic Univ.

14:40
On the stability of controlled flight of an axisymmetric rotating vehicle with incomplete model information (I)

Liberzon, Mark Moscow State Aviation Tech. Univ.

MANCHESTER C

FM03

Nonlinear tracking

Chair: Lin, Wei Case Western Reserve Univ.
 Co-chair: Doyle, III, Frank J. Univ. of Delaware

13:00
On a new approach to the design of tracking controllers for nonlinear dynamical systems

Chen, Lingji Yale Univ.
 Narendra, Kumpati S. Yale Univ.

13:20
Numerical design and analysis of backlash compensation for a multivariable nonlinear tracking system

Ling, Yi Univ. of Virginia
 Tao, Gang Univ. of Virginia

13:40
Stability of maneuver regulation using arbitrary transverse foliations

Hindman, Rick California Inst. of Tech.
 Hauser, John Univ. of Colorado at Boulder

14:00
Preview-based stable-inversion for output tracking

Zou, Qingze Univ. of Utah
 Devasia, Santosh Univ. of Utah

14:20
Efficient nonlinear reference governor for constrained tracking control systems

McNamee, Joe Air Force Inst. of Tech.
 Pachter, Meir Air Force Inst. of Tech.

14:40
Continuous zero phase error tracking controller with gain error compensation

Park, Hyung-Soon Korea Adv. Inst. of Sci. & Tech.
 Chang, Pyung Hun Korea Adv. Inst. of Sci. & Tech.
 Lee, Doo Yong Korea Adv. Inst. of Sci. & Tech.

MANCHESTER D

FM04

Nonlinear control II

Chair: Saif, Mehrdad Simon Fraser Univ.

Co-chair: Middleton, Rick Univ. of Newcastle

13:00

A feedback control design for a class on nonlinear systems

Busawon, Krishna K. Univ. Auton. de Nuevo Leon
De Leon Morales, Jesus Univ. Auton. de Nuevo Leon
Saif, Mehrdad Simon Fraser Univ.

13:20

Performance limitations in a class of single-input single-output nonlinear systems

Braslavsky, Julio H. Univ. of Newcastle
Middleton, Rick Univ. of Newcastle
Freudenberg, James S. Univ. of Michigan

13:40

Nonlinear identification of induction motor parameters

Pappano, Vincenzo New Jersey Inst. of Tech.
Lyshevski, S. E. Purdue Univ. at Indianapolis
Friedland, B. New Jersey Inst. of Tech.

14:00

"Loop-at-a-time" design of dynamic surface controllers for nonlinear systems

Gerdes, J. Christian Stanford Univ.
Hedrick, J. Karl Univ. of California at Berkeley

14:20

Estimation and control of a class of Euler discretized nonlinear systems

Busawon, Krishna K. Simon Fraser Univ.
Saif, Mehrdad Simon Fraser Univ.
De Leon-Morales, Jesus Univ. Auton. de Nuevo Leon

14:40

Online high voltage power supply ripple estimation and feedforward in LEDA

Kwon, Sung-Il Los Alamos National Lab.
Regan, Amy Los Alamos National Lab.
Wang, Y. M. Los Alamos National Lab.
Rohlev, T. Los Alamos National Lab.

MANCHESTER E

FM05

Chemical process control

Chair: Shah, Sirish Univ. of Alberta
Co-chair: Meyer, David G. Univ. of Colorado at Boulder

13:00

Trajectory morphing applied to epitaxial thin film growth

Engelmann, Andrew P. Univ. of Colorado at Boulder
Meyer, David G. Univ. of Colorado at Boulder
Hauser, John Univ. of Colorado at Boulder
Cafilisch, Russell Univ. of California at Los Angeles

13:20

Locating sensitivity minimizing process inputs in the plasma enhanced chemical vapor deposition (PECVD) of silicon nitride thin films: a neural network based approach

Rosen, I. Gary Univ. of Southern California
Parent, T. Univ. of Southern California
Cooper, C. Univ. of Southern California
Chen, P. Univ. of Southern California
Madhukar, A. Univ. of Southern California

13:40

Dynamics and control of falling film evaporators with mechanical vapour recompression

Winchester, James Massey Univ.
Marsh, Clive Massey Univ.

14:00

An intelligent implementation aid for industrial process control systems

Taylor, James H. Univ. of New Brunswick
Chan, Cheney Univ. of New Brunswick

14:20

A simple technique for batch process optimization with application to crystallization

Ge, Ming National Univ. of Singapore
Wang, Qing-Guo National Univ. of Singapore
Chiu, Min-Sen National Univ. of Singapore
Lee, Tong-Heng National Univ. of Singapore
Hang, Chang-Chieh National Univ. of Singapore
Teo, Kim-Hock Yokogawa Electric Asia Pte. Ltd.

14:40

System identification and control of a molecular beam epitaxy (MBE) system

Tsakalis, Kostas Arizona State Univ.
Metzger, Richard Arizona State Univ.
Rodriguez, Armando A. Arizona State Univ.

MANCHESTER F

FM06

Disk drive control

Chair: Li, Perry Y. Univ. of Minnesota
Co-chair: Grimble, Michael John Univ. of Strathclyde

13:00

Rejection of repeatable and non-repeatable disturbances for disk drive actuators

Li, Jianwu Univ. of Illinois at Urbana-Champaign
Tsao, Tsu-chin Univ. of Illinois at Urbana-Champaign

13:20

Robustness analysis on a high bandwidth disk drive servo system with an instrumented suspension

Huang, Yuhong Carnegie Mellon Univ.
Mathur, Priyadarshree Carnegie Mellon Univ.
Messner, William Carnegie Mellon Univ.

13:40

Limits of performance of an optical disk drive controller

Hearns, Gerald Univ. of Strathclyde
Grimble, Michael John Univ. of Strathclyde

14:00

Digital implementation of a mixed objectives MIMO controller for a compact disc player using a multiprocessor system

Dettori, Marco	Delft Univ. of Tech.
Valk, Peter	Delft Univ. of Tech.
Scherer, Carsten W.	Delft Univ. of Tech.

14:20

New fine seek control for optical disk drives

Ryoo, Jung Rae	Korea Adv. Inst. of Sci. & Tech.
Jin, Kyoung Bog	Korea Adv. Inst. of Sci. & Tech.
Doh, Tae-Yong	Korea Adv. Inst. of Sci. & Tech.
Chung, Myung Jin	Korea Adv. Inst. of Sci. & Tech.

14:40

Design of a multi-rate estimator and its application to a disk drive servo system

Baek, Sang-Eun	Samsung Adv. Inst. of Tech.
Lee, Seung-H	Samsung Adv. Inst. of Tech.

REGENCY A

FM07

GPS based control

Chair: Farrell, Jay A.	Univ. of California at Riverside
Co-chair: Enge, Per K.	Stanford Univ.
Organizer: Farrell, Jay A.	Univ. of California at Riverside
Co-organizer: Enge, Per K.	Stanford Univ.

13:00

Experimental differential GPS reference station evaluation (I)

Farrell, Jay A.	Univ. of California at Riverside
Givargis, Tony	Univ. of California at Riverside

13:20

High integrity carrier phase navigation for future LAAS using multiple civilian GPS signals (I)

Enge, Per K.	Stanford Univ.
Jung, Jaewoo	Stanford Univ.
Pervan, Boris	Illinois Inst. of Tech.
Hansen, Andrew	Stanford Univ.
Walter, Todd	Stanford Univ.

13:40

Navigation integrity monitoring for dgps-based precision landing of aircraft (I)

Pervan, Boris	Stanford Univ.
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14:00

Single baseline GPS based attitude heading reference system (AHRS) for aircraft applications (I)

Hayward, Roger C.	Stanford Univ.
Marchick, Adam	Stanford Univ.
Powell, J. David	Stanford Univ.

14:20

Differential carrier phase GPS aided INS for automotive applications (I)

Farrell, Jay A.	Univ. of California at Riverside
Givargis, Tony	Univ. of California at Riverside
Barth, Matthew	Univ. of California at Riverside

14:40

Dynamic carrier phase differential GPS/INS positioning for formation flight (I)

Williamson, Walton R.	Univ. of California at Los Angeles
Rios, Jose A.	Univ. of California at Los Angeles
Speyer, Jason L.	Univ. of California at Los Angeles

REGENCY B

FM08

Automated highway systems

Chair: Phillips, Anthony M.	Ford Motor Co.
Co-chair: Tan, Han-Shue	Univ. of California at Berkeley
Organizer: Phillips, Anthony M.	Ford Motor Co.
Co-organizer: Sureshbabu, Natarajan	Ford Motor Co., SRL

13:00

Robust H_{∞} lateral control of heavy-duty vehicles in automated highway system (I)

Wang, Jeng-Yu	Univ. of California at Berkeley
Tomizuka, Masayoshi	Univ. of California at Berkeley

13:20

Lateral and longitudinal vehicle control coupling for automated vehicle operation (I)

Lim, Edward H. M.	Univ. of California at Berkeley
Hedrick, J. Karl	Univ. of California at Berkeley

13:40

Longitudinal adaptive control of a platoon of vehicles (I)

Seshagiri, Sridhar	Ford Motor Co.
Khalil, Hassan K.	Michigan State Univ.

14:00

DGPS-based position measurement and steering control for automatic driving (I)

Omae, Manabu	Univ. of Tokyo
Fujioka, Takehiko	Univ. of Tokyo

14:20

A traffic flow controller for non-stationary velocity profiles on automated highways (I)

Toy, Charmine	Univ. of California at Berkeley
Alvarez, Luis	Univ. of California at Berkeley
Horowitz, Roberto	Univ. of California at Berkeley

14:40

Lane tracking control in vehicle-following collision situations (I)

Chan, Ching-Yao	Univ. of California at Berkeley
Tan, Han-Shue	Univ. of California at Berkeley

REGENCY D

FM09

Sensors & actuators

Chair: Abed, Eyad H.	Univ. of Maryland
Co-chair: Sepehri, Nariman	Univ. of Manitoba

13:00

Optimal actuator and sensor placement for modal and stability monitoring

Yaghoobi, Hassan	Univ. of Maryland
Abed, Eyad H.	Univ. of Maryland

13:20
Modeling and prediction of hydraulic servo actuators with neural networks
 He, Shouling Univ. of Manitoba
 Sepehri, Nariman Univ. of Manitoba

13:40
Acceleration feedback design for voice coil actuated direct drive
 Babinski, Alex Univ. of Illinois at Urbana-Champaign
 Tsao, Tsu-chin Univ. of Illinois at Urbana-Champaign

14:00
Robust force controller design for a hydraulic actuator based on experimental input-output data
 Niksefat, Navid Univ. of Manitoba
 Sepehri, Nariman Univ. of Manitoba

14:20
Control of linear motor machine tool feed drives for end milling : robust MIMO approach
 Choi, Chintae RIST
 Tsao, Tsu-Chin Univ. of Illinois at Urbana-Champaign
 Matsubara, Atsushi Kyoto Univ.

14:40
Repetitive control design for linear servo systems
 Yau, Wu-Sung National Cheng Kung Univ.
 Tsai, Mi-Ching National Cheng Kung Univ.

REGENCY E

FM10
Missile & rocket control
 Chair: How, Jonathan P. Stanford Univ.
 Co-chair: Lin, Ching-Fang American GNC Corp.

13:00
Application of improved L₂-gain synthesis on LPV missile autopilot design
 Lim, Sungyung Space Systems/Loral
 How, Jonathan P. Stanford Univ.

13:20
Three dimensional midcourse guidance state equations
 Serakos, Demetrios Naval Surface Warfare Center
 Lin, Ching-Fang American GNC Corp.

13:40
Incremental stability of the extended missile autopilot
 Devaud, Emmanuel Ecole Superieure d Electricite

14:00
Robust stability analysis of a lateral flight control system for a missile
 White, Brian A. Cranfield Univ.
 Tsourdos, Antonios Cranfield Univ.

14:20
A nonlinear missile guidance controller with pulse type input devices
 Fu, Li-Chen National Taiwan Univ.
 Tsai, Chi-Wang National Taiwan Univ.
 Yeh, Fu-Kuang National Taiwan Univ.

14:40
A derivation of pure proportional navigation

Wang, Jianwei Tsinghua Univ.
 Xie, Xueshu Tsinghua Univ.

CUNNINGHAM A

FM11
Modeling in industrial applications
 Chair: Erwin, Richard S. US Air Force Research Lab.
 Co-chair: Salapaka, Murti V. Iowa State Univ.

13:00
Sensor noise model development of a longitudinal positioning system for AVCS
 Wang, Jiangxin Univ. of California at Berkeley
 Chao, Susan Y. Univ. of California at Berkeley
 Agogino, Alice M. Univ. of California at Berkeley

13:20
Dynamic modeling of multiple-zone vapor compression cycles using variable order representations
 Gordon, Brandon W. Massachusetts Inst. of Tech.
 Liu, Sheng Massachusetts Inst. of Tech.
 Asada, Haruhiko Massachusetts Inst. of Tech.

13:40
A skew-symmetric form of the recursive Newton-Euler algorithm for the control of multibody systems
 Ploen, Scott Jet Propulsion Lab.

14:00
Stochastic resonance in atomic force microscopes
 Basso, Michele Univ. di Firenze
 Dahleh, Mohammed Univ. of California at Santa Barbara
 Mezic, Igor Univ. of California at Santa Barbara
 Salapaka, Murti V. Iowa State Univ.

14:20
Model-based fault diagnosis of an actuator system driven by a brushless DC motor
 Moseler, Olaf Darmstadt Univ. of Tech.
 Juricic, Dani Jozef Stefan Inst.
 Rakar, Andrej Jozef Stefan Inst.
 Mueller, Norbert Darmstadt Univ. of Tech.

14:40
Modeling of pivot friction using relay function and estimation of its frictional parameters
 Chang, Joseph Heungsung Samsung Advanced Inst. of Tech.
 Baek, S. E. Samsung Advanced Inst. of Tech.
 Park, J. H. Samsung Advanced Inst. of Tech.
 Byun, Y. K. Samsung Advanced Inst. of Tech.

CUNNINGHAM B

FM12
Linear systems I: analysis
 Chair: Iglesias, Pablo A. Johns Hopkins Univ.
 Co-chair: O'Brien, Richard United States Naval Academy

13:00
Analytic constraints in feedback control of linear time-varying systems: Bode-s sensitivity integral
 Iglesias, Pablo A. Johns Hopkins Univ.

13:20
Robust disturbance-rejection problems with output feedback and known disturbances for infinite-dimensional systems

Otsuka, Naohisa	Univ. of Tsukuba	14:40	<i>Robust decentralized output feedback control of similar composite system with uncertainties unknown</i>	Liu, Fenlin Zhang, Si-Ying	Northeastern Univ. Northeastern Univ.
13:40					
<i>A new invariance property of Lyapunov characteristic directions</i>					
Bharadwaj, Sanjay	Univ. of California at Irvine				
Mease, Kenneth D.	Univ. of California at Irvine				
14:00					
<i>Induced convolution operator norms of linear dynamical systems</i>					
Chellaboina, VijaySekhar	Georgia Inst. of Tech.				
Haddad, Wassim M.	Georgia Inst. of Tech.				
Bernstein, Dennis S.	Univ. of Michigan				
Wilson, David A.	The Univ. of Leeds				
14:20					
<i>An analysis of detection spaces using invariant zeros</i>					
Kim, Yongmin	Seoul National Univ.				
Park, Jaehong	Seoul National Univ.				
14:40					
<i>On bearing only observability for general linear systems</i>					
Bolotin, Yuri V.	Moscow Lomonosov State Univ.				
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CUNNINGHAM C					
FM13					
Decentralized control					
Chair: Goodwin, Graham C.	Univ. of Newcastle				
Co-chair: Paganini, Fernando	Univ. of California at Los Angeles				
13:00					
<i>Decentralized model reference control of a flexible cable-stayed beam structure</i>					
Luo, Ningsu	Univ. of Basque Country				
Rodellar, Jose	Tech. Univ. of Catalonia				
De la Sen, Manuel	Univ. del País Vasco				
Vehi, Josep	Univ. of Girona				
13:20					
<i>A recursive information flow system for distributed control arrays</i>					
Paganini, Fernando	Univ. of California at Los Angeles				
13:40					
<i>H₂ design of decentralized controllers</i>					
Goodwin, Graham C.	Univ. of Newcastle				
Seron, Maria	Univ. of Newcastle				
Salgado, Mario	Univ. Tecnica Federico Santa Maria				
14:00					
<i>Two-channel decentralized controller design with integral action</i>					
Gundes, A. Nazli	Univ. of California at Davis				
Kabuli, M. Guntekin	Univ. of California at Davis				
14:20					
<i>Robust decentralized excitation control of multimachine power systems</i>					
Guo, Yi	Univ. of Sydney				
Hill, David J.	Univ. of Sydney				
Wang, Youyi Y.	Nanyang Tech. Univ.				
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WINDSOR A					
FM14					
Design of PID controllers - advanced methods					
Chair: Huang, Hsiao-Ping	National Taiwan Univ.				
Co-chair: Johnson, Michael A.	Univ. of Strathclyde				
Organizer: Johnson, Michael A.	Univ. of Strathclyde				
Co-organizer: Huang, Hsiao-Ping	National Taiwan Univ.				
13:00					
<i>Limitations of PID controllers (I)</i>					
Atherton, Derek P.	Univ. of Sussex				
Majhi, S.	Univ. of Sussex				
13:20					
<i>Adaptive-predictive PI control of a class of SIS systems (I)</i>					
Tan, Kok Kiong	National Univ. of Singapore				
Huang, S. N.	National Univ. of Singapore				
Lee, Tong-Heng	National Univ. of Singapore				
Leu, F. M.	National Univ. of Singapore				
13:40					
<i>Automatic tuning of the flexible smith predictor controller (I)</i>					
Vrancic, Damir	Jozef Stefan Inst.				
Vrecko, D.	Jozef Stefan Inst.				
Juricic, Dani	Jozef Stefan Inst.				
Strmcnik, Stanko	Jozef Stefan Inst.				
14:00					
<i>Design of PID controllers based on non convex optimization (I)</i>					
Panagopoulos, H.	Lund Inst. of Tech.				
Astrom, Karl J.	Lund Inst. of Tech.				
Hagglung, T.	Lund Inst. of Tech.				
14:20					
<i>Controller performance assessment based on setpoint response data (I)</i>					
Swanda, Anthony P.	Univ. of California at Santa Barbara				
Seborg, Dale E.	Univ. of California at Santa Barbara				
14:40					
<i>Dynamic classes in the PID control (I)</i>					
Huba, Mikulas	Slovak Univ. of Tech.				
Bistak, P.	Slovak Univ. of Tech.				
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WINDSOR B					
FM15					
Observers					
Chair: Hsu, Chin Shung	Washington State Univ.				
Co-chair: Sawan, M. Edwin	Wichita State Univ.				
13:00					
<i>Kalman filter design for singularly perturbed systems by unified approach using delta operators</i>					
Shim, Kyu-Hong	Wichita State Univ.				
Sawan, M. Edwin	Wichita State Univ.				

13:20
An H_∞ deconvolution filter and its application to ultrasonic nondestructive evaluation of materials
Hanshaw, Timothy C. Washington State Univ.
Anderson, Michael J. Univ. of Idaho
Hsu, Chin Shung Washington State Univ.

13:40
A parallel observer system for multirate state estimation
Thein, May-Win L. Oklahoma State Univ.
Misawa, Eduardo A. Oklahoma State Univ.

14:00
Speed and flux estimation for an induction motor without position sensor
Bondarko, Vladimir A. St. Petersburg State Univ.
Zaremba, Alexander T. Ford Motor Co.

14:20
Tuning of the continuous-time Kalman filter from sampled data
Haverkamp, B. R. J. Delft Univ. of Tech.
Verhaegen, Michel H. Delft Univ. of Tech.
Chou, C. T. Delft Univ. of Tech.
Johansson, Rolf Lund Inst. of Tech.

14:40
Dynamical-model approach to observer and smooth filter design
Ibrir, Salim CNRS – Supelec – Univ. Paris Sud

WINDSOR C

FM16

Estimation II

Chair: Berg, Jordan M. Texas Tech. Univ.
Co-chair: Collins, Jr., Emmanuel G. Florida A & M - Florida State

13:00
Estimation of parameter values appearing in space and orientation dependent curve evolution process models
Berg, Jordan M. Texas Tech. Univ.

13:20
Limit estimation for discrete time-varying system with converging coefficients
Czornik, Adam Silesian Technical Univ.

13:40
An adaptive Kalman filter with sequential rescaling of process noise
Efe, Murat Ankara Univ.
Bather, John A. Univ. of Sussex
Atherton, Derek P. Univ. of Sussex

14:00
EKF based parameter estimation for a heat exchanger
Mutambara, Arthur G. O. FAMU-FSU
Al-Haik, Marwan S. Y. FAMU-FSU

14:20
Robust L_1 estimation using the Popov-Tsytkin multiplier with application to robust fault detection
Collins, Jr., Emmanuel G. Florida A & M - Florida State Univ.
Song, Tinglun Florida A & M - Florida State Univ.

14:40
An algorithm for identification of lightly damped structural modes
Arambel, Pablo O. Scientific Systems Co., Inc.

Sampath, Arun M. Scientific Systems Co., Inc.
Mehra, Raman K. Scientific Systems Co., Inc.
Parham, Tom Bell Helicopter Textron, Inc.

OXFORD

FM17

Nonholonomic systems

Chair: Lyshevski, Sergey Purdue Univ. at Indianapolis
Co-chair: Astolfi, Alessandro Imper. College of Sci., Tech & Med.

13:00
Optimization of a class of nonholonomic dynamic systems
Lyshevski, Sergey Edward Purdue Univ. at Indianapolis

13:20
withdrawn

13:40
Robust stabilization of a mobile robot violating the nonholonomic constraint via quasi-sliding modes
Corradini, Maria Letizia Univ. di Ancona
Leo, Tommaso Univ. di Ancona
Orlando, Giuseppe Univ. di Ancona

14:00
Quasi-smooth control of chained systems
Laiou, Maria-Christina Imperial College
Astolfi, Alessandro Imperial College

14:20
Adaptive robust stabilization of uncertain nonholonomic mechanical systems
Dong, Wenjie Beijing Univ. of Aero. & Astro.
Huo, Wei Beijing Univ. of Aero. & Astro.

14:40
Epsilon-stabilization of chained systems with input constraints
Wang, Chaoli Beijing Univ. of Aero. & Astro.
Huo, Wei Beijing Univ. of Aero. & Astro.
Dong, Wenjie Beijing Univ. of Aero. & Astro.

CONNAUGHT

FM18

Nonlinear identification and fault detection

Chair: Makila, Pertti M. Tampere Univ. of Tech.
Co-chair: Mendes, Eduardo Fund. de Ensino Superior de Sao Joao

13:00
Identification of nonlinear systems using a B-splines parametric subspace approach
Ramos, Jose A. Purdue Univ. at Indianapolis
Durand, Jean-Francois Univ. de Montpellier II

13:20
Important issues of system identification using algorithms for structure detection: do noise terms have any influence when the data are chaotic?
Mendes, Eduardo Fundacao de Ensino Superior de Sao Joao

13:40

Closed-loop and open-loop identification of an industrial wastewater reactor

Pasadyn, Alex J.	Univ. of Texas at Austin
Qin, S. Joe	Univ. of Texas at Austin
Valle-Cervantes, S.	Univ. of Texas at Austin

14:00

Integrated identification and robust control for paper machines

Green, Alf	Honeywell-Measurex
Tsakalis, Kostas	Arizona State Univ.
MacArthur, Ward	Honeywell Hi-Spec Solutions
Dash, Sachindra	Honeywell Tech. Center

14:20

PLS modelling and fault detection on the Tennessee Eastman benchmark

Wilson, David J. H.	Queen's Univ. of Belfast
Irwin, George W.	Queen's Univ. of Belfast

14:40

On-line fault detection and isolation of nonlinear systems

Chan, Che Wai	Univ. of Hong Kong
Cheung, Kie Chung	Univ. of Hong Kong
Wang, Ying	Univ. of Hong Kong
Chan, Wing Chi	Univ. of Hong Kong