MED'03 Conference Program by Day & by Session

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Program by Date

		A	B	C	D
Wednesday 18	8:30 – 10:15	Marine Control	Observers	Power systems & Converters	Robust Control
	10:45 – 11:40	Plenary session I – Control of Networked Embedded Systems *by Prof. Panos J. Antsaklis*			
	11:45 – 13:00	Force Control	LMI	Vehicle Control	Advances in Multi-Robot Systems
	14:00 – 15:30	Robotics I	Detection & Estimation	Time-Delayed Systems	On the Control Strategies
	16:00 – 17:30	Mobile Robots I	Vision	Drives Control I	Polynomial Design Methods - A New Theoretical Achievement
	17:30 – End of day	Mobile Robots II	Speech Recognition	Drives Control II	Polynomial Design Methods - Applications and Algorithms
Thursday 19	8:30 – 10:15	Robotics II	Nonlinear Control	PID Control	Computational Toolboxes in Control Design
	10:45 – 11:40	Plenary session II – Advances in robotics and mechatronics - from space to surgery *by Prof. Gerd Hirzinger*			
	11:45 – 13:15	Discrete Event Systems I	Neural Networks	Multiple-Model Systems	Advanced Numerical Methods in System and Control Theory
	14:15 – 15:10	Plenary session III – Control of Networks of Unmanned Vehicles *by Prof. Shankar S. Sastry*			
	15:15 – 16:30	Discrete Event Systems II	Optimal Control I	Fault Diagnosis	Control of Construction Handling Machinery
	17:00 – 18:00	Flight Control	Optimal Control II	Traffic Control	Control in Medicine
Friday 20	8:30 – 10:00	Discrete Event Systems III	Fuzzy Systems	Computer Aided Design	Internet-Based Human Machine Interaction for Educational Mechatronics Systems
	10:30 – 11:25	Plenary session IV – Hybrid Systems - A Control Engineering Perspective *by Prof. Manfred Morari*			
	11:30 – 12:30	Aerial Vehicles	Prediction & Data Reconstruction	LPV	Mechatronics Approach in the Design and Operation of Non-Conventional Robots
	13:30 – 15:00	Robotics III	Intelligent Control I	Stability	Modeling, Estimation and Control of Infinite Dimensional Systems - Part I
	15:30 – 17:00	—	Intelligent Control II	Sliding Mode Control	Modeling, Estimation and Control of Infinite Dimensional Systems - Part II

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Program by Session

IV02: Advanced Numerical Methods in System and Control Theory

Takes Place: Thursday, 11:45-13:15
Chair(s): A.I. Vardulakis
N.P. Karampetakis

A Numerical Method for the Computation of Proper Denominator Assigning Compensators for Strictly Proper Plants (IV02-01)

Antoniou E. N. ..... *Aristotle University of Thessaloniki*
Vardulakis A.I.G. ..... *Aristotle University of Thessaloniki*

A Resultant Based Computation of the Greatest Common Divisor of Two Polynomials (IV02-05)

Fatouros S. ..... *City University*
Karcanias N. ..... *City University*
Mitrouli M..... *University of Athens*

Numerical Accurate Computations for Ellipsoidal State Bounding (IV02-06)

Barraud A..... *Laboratoire d'Automatique de Grenoble*
Lesecq S. ..... *Laboratoire d'Automatique de Grenoble*
Tran Dinh K. Q..... *Laboratoire d'Automatique de Grenoble*

Numerical Methods for Partial Eigenvalue and Eigenstructure Assignments in Vibrating Structures (IV02-03)

Datta Biswa Nath ..... *Northern Illinois University*
Sarkissian Daniil ..... *Mississippi State University*

Robust Stabilization of Discrete Linear Repetitive Processes with Application to Physical Example (IV02-07)

Galkowski Krzysztof ..... *University of Zielona Gora*
Owens David H. ..... *University of Shefield*
Paszke Wojciech ..... *University of Zielona Gora*
Rogers Eric..... *University of Southempton*

Space Time Adaptive Processing Using State-Space Methods and Kalman Filtering (IV02-02)

Binonwangan Martian C. ..... *University of Hawaii at Manoa*
Syrmos Vasillis ..... *University of Hawaii at Manoa*
Wang Xudong ..... *University of Hawaii at Manoa*

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IV03: Advances in Multi-Robot Systems

Takes Place: Wednesday, 11:45-13:00
Chair(s): K. Kyriakopoulos
S. Roumeliotis

Analytical Expression for Positioning Uncertainty Propagation in Networks of Robots (IV03-04)

Rekleitis Ioannis ..... *Carnegie Mellon University*
Roumeliotis Stergios ..... *University of Minnesota*

Coordination of Multiple Autonomous Vehicles (IV03-02)

Jadbabaie Ali ..... *University of Pennsylvania*
Pappas George ..... *University of Pennsylvania*
Tanner Herbert G. ..... *University of Pennsylvania*

Decentralized Motion Control of Multiple Mobile Agents (IV03-03)

Kyriakopoulos Kostas J. ..... *National Technical University of Athens*
Zavlanos Michael M. ..... *National Technical University of Athens*

Dispersion of a Team of Surveillance and Reconnaissance Robots Based on Repellent Pheromones (IV03-01)

Hess Christopher ..... *Berea College*
Papanikolopoulos Nikos..... *University of Minnesota*
Pearce Janice L. ..... *Berea College*
Powers Bob..... *Berea College*
Rybski Paul E..... *University of Minnesota*
Stoeter Sascha A..... *University of Minnesota*

On Distributed Coordination of Mobile Agents with Changing Nearest Neighbors (IV03-05)

Jadbabaie Ali ..... *University of Pennsylvania*

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FM2-A: Aerial Vehicles

Takes Place: Friday, 11:30-12:30
Chair(s): Nikos C. Tsourveloudis
George Vachtsevanos

A Hierarchical/Intelligent Control Architecture for Unmanned Aerial Vehicles (T3-022)

Gutierrez Luis ..... *Georgia Institute of Technology*
Heck Bonnie ..... *Georgia Institute of Technology*
Vachtsevanos George ..... *Georgia Institute of Technology*

A UAV Based Automated Airborne Surveillance System (T7-134)

Kontitsis Michael P. ..... *Technical University of Crete*
Tsourveloudis Nikos C. ..... *Technical University of Crete*
Valavanis Kimon P..... *Technical University of Crete*

Experimental Testing of a CMG Cluster for Agile Microsatellites (T7-143)

Lappas V.J. ..... *University of Surrey*
Steyn W.H. ..... *University of Stellenbosch*
Underwood C.I. ..... *University of Surrey*

INS Aiding Using Optical Flow - Theory (T7-005)

Pachter Meir ..... *Air Force Institute of Technology*

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IV01: Computational Toolboxes in Control Design

Takes Place: Thursday, 8:30-10:15
Chair(s): A.I. Vardulakis
N.P. Karampetakis

A Descriptor Systems Package for MATHEMATICA (IV01-08)

Antoniou E. N. ..... *Aristotle University of Thessaloniki*
Karampetakis N. P. ..... *Aristotle University of Thessaloniki*
Tzekis P. ..... *Aristotle University of Thessaloniki*
Vardulakis A.I.G. ..... *Aristotle University of Thessaloniki*
Vologiannidis S. ..... *Aristotle University of Thessaloniki*

A Polynomial Control Systems Package (IV01-04)

Munro Neil ..... *University of Manchester*

Doing Systems and Control with NCAlgebra, a Symbolic Noncommutative Algebra Toolbox (IV01-03)

De Oliveira M. C. ..... *University of Campinas*
Helton J.W. ..... *University of California at San Diego*

Global Optimization in Rn with Box Constraints and Applications: A Maple Code (IV01-05)

Galperin E.A. ..... *Universite du Quebec a Montreal*
Pineda Miguel D..... *UNED, Facultad de Ciencias*

Identification of a Steel Subframe Flexible Structure Using SLICOT System Identification Toolbox (IV01-07)

Sima Vasile ..... *National Institute for Research & Development in Informatics*

MATLAB Environment for Control of Time-Varying Systems (IV01-06)

Matusu R..... *Tomas Bata University*
Prokop Roman ..... *Tomas Bata University*
Prokopova Z..... *Tomas Bata University*

MATLAB-Based Toolbox for Analysing Differential Linear Repetitive Processes (IV01-02)

Galkowski Krzysztof ..... *University of Zielona Gora*
Gramacki Artur ..... *University of Zielona Gora*
Gramacki Jaroslaw ..... *University of Zielona Gora*
Owens David H. ..... *University of Shefield*
Rogers Eric..... *University of Southampton*

Solving Algebraic Riccati Equations with SLICOT (IV01-01)

Benner Peter ..... *Technische Universitat Berlin*
Sima Vasile ..... *National Institute for Research & Development in Informatics*

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FM1-C: Computer Aided Design

Takes Place: Friday, 8:30-10:00
Chair(s): Ivan Masar
Pavol Bistak

An Architecture to Extend the IEC61499 Model for Distributed Control Applications (T7-122)
Thramboulidis Kleanthis ..... *University of Patras*

An IEC-Compliant Engineering Tool for Distributed Control Applications (T7-108)
Thramboulidis Kleanthis ..... *University of Patras*
Tranoris Christos..... *University of Patras*

Integration of Digital Measuring Technology in Gas Insulated Substations (GIS) (T7-009)
Gokalp Erdin..... *Technical University of YILDIZ*
Trabulus Selim..... *Technical University of YILDIZ*

Organising Tele-Experiments for Control Education (T7-113)
Bistak Pavol..... *Slovak University of Technology,*
Zakova Katarina ..... *Slovak University of Technology,*

Stochastical Model of Irradiation for the Analysis of the Solar System (T7-130)
Antonic Radovan..... *Split College of Maritime Studies*
Peric Mario ..... *Brodarski Institute*
Tomisa Tomislav ..... *University of Zagreb*

Virtual Laboratory for Real-Time Control of Inverted Pendulum/Gantry Crane (T7-129)
Bischoff A..... *FernUniversität in Hagen*
Gerke M..... *FernUniversität in Hagen*
HOYER H. ..... *FernUniversität in Hagen*
Ivanov I..... *FernUniversität in Hagen*
Masar I..... *FernUniversität in Hagen*
Rohrig C..... *FernUniversität in Hagen*

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TA3-D: Control in Medicine

Takes Place: Thursday, 17:00-18:00
Chair(s): Catarina Nunes

A New Application of Fuzzy Neural Network to ECG Recognition Based on Rough Set Theory (T3-021)

Huang Xianming ..... *Beijing University of Technology*
Zhang Yanhong ..... *Beijing University of Technology*

Fuzzy Control of Mean Arterial Pressure During Anesthesia (T3-012)

Akpolat Zuhtu Hakan ..... *Firat University*
Avci Engin ..... *Firat University*

Fuzzy Logic to Model the Effect of Surgical Stimulus on the Patient Vital Signs (T3-015)

Linkens Derek A. ..... *University of Sheffield*
Mahfouf Mahdi ..... *University of Sheffield*
Nunes Catarina ..... *University of Porto*
Peacock John E. ..... *Royal Hallamshire Hospital*

Integrated Approach for Clasification Ofcardiotocograms Based on Independent Component Analysis and Neural Networks (T3-032)

Georgoulas George ..... *University of Patras*
Groumpos Peter P. ..... *University of Patras*
Stylios Chrysostomos.... *University of Patras*

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IV11: Control of Construction Handling Machinery

Takes Place: Thursday, 15:15-16:30
Chair(s): M. Abderrahim

Adaptation Control Technique of Overhead Crane Mechanisms (IV11-01)
Schab Jakub ..... *University of Krakow*
Smoczek Jarosław ..... *University of Krakow*
Szpytko Janusz..... *University of Krakow*

Anti-Swinging Input Shaping Control of an Automatic Construction Crane (IV11-03)
Abderrahim Mohamed ..... *University Carlos III of Madrid*
Balaguer C..... *University Carlos III of Madrid*
Garrido S. ..... *University Carlos III of Madrid*
Gimenez A..... *University Carlos III of Madrid*

Developments toward an Autonomous Robotic Crane for Automated Steel Construction (IV11-02)
Lytle Alan M..... *NIST*
Saidi Kamel S..... *NIST*
Scott Nicholas A. ..... *NIST*
Stone William C. ..... *NIST*

Input Shaping Curriculum: Integrating Interactive Simulations and Experimental Setups (IV11-05)
Forest C..... *Georgia Institute of Technology*
Frakes D. ..... *Georgia Institute of Technology*
Huey John ..... *Georgia Institute of Technology*
Lawrence J. ..... *Georgia Institute of Technology*
Singhose William E. ..... *Georgia Institute of Technology*

Rapid Prototyping of Overhead Cranes Control Procedures (IV11-06)
Szpytko Janusz..... *University of Krakow*

Tension Control and Force Estimation for Hybrid Drive Parallel Arm (IV11-04)
Arai Tatsuo ..... *University of Osaka*
Inoue Kenji ..... *University of Osaka*
Mae Yasushi ..... *University of Osaka*

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WA1-B: Detection & Estimation

Takes Place: Wednesday, 14:00-15:30
Chair(s): Petros Ioannou
Umberto Soverini

A Class of Numerical Algorithms for Efficient Approximation of Maximum Entropy Estimates of Probability Density Functions (T7-016)

Balestrino A..... *University of Pisa*
Caiti Andrea ..... *University of Pisa*
Noe A..... *University of Pisa*
Parenti F. ..... *University of Pisa*

Applying Orthogonal Rational Signal Representations in System Change Detection (T7-101)

Bokor Jozsef..... *Hungarian Academy of Sciences*
Schipp Ferenc ..... *Eotvos Lorand University of Budapest*
Soumelidis Alexandros ..... *Hungarian Academy of Sciences*

Estimation Error in Adaptive Prediction of Hidden Markov Processes (T5-013)

Gerencser Laszlo ..... *Hungarian Academy of Sciences*
Molnar-Saska Gabor ..... *Hungarian Academy of Sciences*

Identification of the Continuous-Time Transfer Function of a System from Sampled Data Measurements with Application to Disk Drives (T7-139)

Ioannou Petros..... *University of Southern California*
Xu Haojian ..... *University of Southern California*

Kalman Filtering in Symmetrical Noise Environments (T7-089)

Diversi Roberto ..... *University of Bologna*
Guidorzi Roberto ..... *University of Bologna*
Soverini Umberto ..... *University of Bologna*

Stability Results for Discrete Systems Controlled in the Presence of Interrupted Observations (T7-137)

Dionisio Rui ..... *Instituto Politecnico de Setubal*
Lemos J.M. ..... *Instituto Superior Tecnico*

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TM2-A: Discrete Event Systems I

Takes Place: Thursday, 11:45-13:15
Chair(s): Carlos Bispo
Christos Panayiotou

Aliasing Probability Calculations in Testing Sequential Circuits (T4-015)
Athanasopoulou Eleftheria..... *University of Illinois at Urbana-Champaign*
Hadjicostis Christoforos..... *University of Illinois at Urbana-Champaign*

Blocking Phenomena Analysis for Discrete Event Systems with Failures or Preventive Maintenance Schedules (T4-008)
Lewis Frank L. ..... *ARRI, University of Texas at Arlington*
Mireles Jose..... *Universidad Autónoma de Ciudad Juárez*

Control of State Tree Structures (T4-005)
Ma Chuan ..... *University of Toronto*
Wonham W. M..... *University of Toronto*

Performance Improvement through Active Idleness (T4-013)
Bispo Carlos..... *Instituto Superior Tecnico*
Moreira Jose..... *Agilent Technologies*

Perturbation Analysis of Stochastic Fluid Models with Respect to the Fluid Arrival Process (T7-034)
Cassandras C.G..... *Boston University*
Panayiotou Christos..... *University of Cyprus*
Sun G..... *Boston University*

Some Results on Identification of Timed Event Graphs in Dioids (T4-009)
Hardouin L. ..... *Universit ´ e d'Angers*
Maia Carlos..... *Universida de Federal de Minas Gerais*
Santos-Mendes R..... *Universidade Estadual de Campinas*

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TA2-A: Discrete Event Systems II

Takes Place: Thursday, 15:15-16:30
Chair(s): Octavian Pastravanu
Knut Akesson

An Architecture of Equipment Connectivity in an e-Business Environment (T7-022)

Qiu Robin G. ..... *Penn State University*
Ye Sue X. ..... *GL AgilityTech, Inc.*

Automatic Control and Regulation for Power Load in Manufacturing Process (T7-074)

Liu Jiachen ..... *the State University of New Jersey*
Liu Jiali ..... *Tsinghua University*
Song Jin ..... *Stevens Institute of Technology*

Longitudinal Ventilation Control System in Road Tunnels (T7-063)

Horvat Jasna ..... *Koncar*
Jelusic R. ..... *Koncar*
Peric Nedjeljko ..... *University of Zagreb*
Petrovic Ivan ..... *University of Zagreb*

Petri Net Toolbox for MATLAB (T4-006)

Mahulea Cristian ..... *Technical University "Gh. Asachi" of Iasi*
Matcovschi Mihaela-Hanako *Technical University "Gh. Asachi" of Iasi*
Pastravanu Octavian ..... *Technical University "Gh. Asachi" of Iasi*

Supremica - A Tool for Verification and Synthesis of Discrete Event Supervisors (T4-014)

Akesson Knut ..... *Chalmers University of Technology*
Fabian Martin ..... *Chalmers University of Technology*
Flordal Hugo ..... *Chalmers University of Technology*
Vahidi Arash ..... *Chalmers University of Technology*

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FM1-A: Discrete Event Systems III

Takes Place: Friday, 8:30-10:00
Chair(s): Vassilis Kouikoglou
John Baras

Coordinated Admission and Inventory Controls in a Make-to-Stock Production System (T4-002)

Ioannidis Stratos ..... *Technical University of Crete*
Kouikoglou Vassilis ..... *Technical University of Crete*

Implementation of Fuzzy Cognitive Maps for Production Planning of Plant Control Systems (T4-017)

Christova Nikolinka..... *University of Patras*
Groumpos Peter P. ..... *University of Patras*
Stylios Chrysostomos.... *University of Patras*

Invertible Planning and Non-Cooperative Equilibrium Strategies in Multi-Agent Planning (T4-012)

Galuszka Adam ..... *Silesian University of Technology*
Swierniak Andrzej ..... *Silesian University of Technology*

Markov Processes with State-Dependent Failure Rates and Application to RED and TCP Window Dynamics (T4-011)

Baras John ..... *University of Maryland*
Misra Archan..... *IBM Research*
Ott Teunis ..... *New Jersey Institute for Technology*

Performance Sensitivities for Parameterized Systems (T7-062)

Cao Xi-Ren ..... *Hong Kong University of Science and Technology*
Zhang Junyu ..... *Hong Kong University of Science and Technology*

The Inventory Problem: A Dynamic Programming Approach (T6-009)

Berovic Daniel ..... *Imperial College of Science Technology and Medicine*
Vinter R..... *Imperial College of Science Technology and Medicine*

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WA2-C: Drives Control I

Takes Place: Wednesday, 16:00-17:30
Chair(s): Milan S. Matijevic
Petru Dobra

Analysis on the Influence of Backlash and Motor Input Voltage in Geared Servo System (T1-010)

Baek J. H. ..... *LG Innotek Co., Ltd*
Kim S. H. ..... *Korea Advanced Institute of Science and Technology*
Kwak Y.K. ..... *Korea Advanced Institute of Science and Technology*

Application of Internal Models in the Design of Digitally Controlled Electrical Drives (T7-119)

Matijevic Milan S. ..... *University of Kragujevac*
Stefanovic Miladin Z..... *University of Kragujevac*
Stojic Milic R. ..... *University of Belgrade*

Appliying Inteligent Controllers for Speed Regulation of DC Motors (T3-016)

Hashemi-Hosseini Arash ..... *Tehran University*
Rashidi Farzan ..... *Tehran University*
Rashidi Mehran ..... *Hormozgan University*

Discrete Time Reaching Law Speed Control of DC Motor Drives (T1-006)

Akpolat Zuhtu Hakan ..... *Firat University*
Altinors Ayhan ..... *Firat University*

Experimental and Simulation Results of an Bimotor Electric Vehicle (T7-124)

Esteves Jorge..... *Instituto Superior Técnico*
Foito Daniel ..... *Instituto Politécnico de Setúbal*
Maia Jose..... *Instituto Politécnico de Setúbal*

Robust PID Control BLDC Motor via State Feedback Design (T7-106)

Dobra Petru ..... *Technical University of Cluj*

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WA3-C: Drives Control II

Takes Place: Wednesday, 17:30-18:30
Chair(s): Milan S. Matijevic
Petru Dobra

A New Continuous Time Adaptive Backlash Inverse Controller and Applications to Output Backlash Compensation (T1-003)

Ahmad Nizar ..... *College of Technological Studies*
Al-Mumin Mohammed ..... *College of Technological Studies*
Zerai Adel A..... *College of Technological Studies*

New Approach for Induction Motor Parameters Estimation (T7-105)

M'Saad M..... *LAP, ISMRA*
Massieu J.F..... *LAP, ISMRA*
Pouliquen M..... *LAP, ISMRA*
Rossignol Laure..... *LAP, ISMRA*

PR-Sliding Sectors for Continuous and Discrete Control of an Induction Motor (T7-076)

Hamerlain M..... *Centre de Développement des Technologies Avancées*
Midoun-Oussedik Amel ..... *Centre de Développement des Technologies Avancées*

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TA2-C: Fault Diagnosis

Takes Place: Thursday, 15:15-16:30
Chair(s): Kostas Kyriakopoulos
Stojan Persin

Analitical Redundancy for Better Safety Features – an Example of Boiler (T7-035)
Persin Stojan ..... *University of Maribor*
Tovornik Boris..... *University of Maribor*

Error Control Schemes in Wireless Broadband Networks (T7-116)
Makris Kostantinos..... *National Technical University of Athens*
Theologou Micahel E. ..... *National Technical University of Athens*
Vergados Dimitrios D..... *National Technical University of Athens*

Intelligent Diagnostic for Sensor Arrays (T7-140)
Gaura Elena ..... *Coventry University*
Newman Robert M. ..... *Coventry University*

Model Based Fault Diagnosis of Hybrid Systems Based on Hybrid Structure Hypothesis Testing (T7-111)
Fourlas George ..... *National Technical University of Athens*
Krikelis N. J. ..... *National Technical University of Athens*
Kyriakopoulos Kostas J. ..... *National Technical University of Athens*

Vehicle Health Monitoring System Using Multiple-Model Adaptive Estimation (T5-006)
Binonwangan Martian ..... *University of Hawaii at Manoa*
Syrmos Vasilis ..... *University of Hawaii at Manoa*
Wang Xudong ..... *University of Hawaii at Manoa*

TA3-A: Flight Control

Takes Place: Thursday, 17:00-18:00
Chair(s): Mikulas Huba
John Lygeros

Design of a Flight Control System for a Non-Minimum Phase 5 DOF Aircraft Model (T7-002)
Al-Hiddabi Saif ..... *Sultan Qaboos University*

Minimum Cost Optimal Control: an Application to Flight Level Tracking (T7-132)
Lygeros John ..... *University of Cambridge*

SimModHeli: A Dynamic Simulator for Model-Scale Helicopters (T7-069)
Cunha Rita..... *Instituto Superior Tecnico*
Silvestre C..... *Instituto Superior Tecnico*

The Helicopter Rack Control (T7-094)
Huba Mikulas..... *Slovak University of Technology in Bratislava*
Karas Milos..... *Slovak University of Technology in Bratislava*
Velicko Viktor ..... *Slovak University of Technology in Bratislava*

WM2-A: Force Control

Takes Place: Wednesday, 11:45-13:00
Chair(s): Laura Menini
Dimitrios Dimogianopoulos

Experimental Results on the Control of Cooperative Robots without Velocity Measurements (T2-036)
Arteaga Marco A..... *Universidad Nacional Autonoma de Mexico*

Generalized Cooperative Impedance Control of Dual-Arm for Assembly Task (T2-007)
Bouzouia B..... *Centre de Développement des Technologies Avancées*
Derragui N. ..... *Centre de Développement des Technologies Avancées*
Kadri Mohamed ..... *Centre de Développement des Technologies Avancées*

Hybrid Force Control for Parallel Manipulators (T2-010)
Assuncao Ventura..... *Technical University Braunschweig*
Schumacher Walter..... *Technical University Braunschweig*

On Velocity Observers for a Planar Robot Subject to Non-Smooth Impacts (T2-022)
Galeani Sergio..... *Universita di Roma Tor Vergata*
Menini Laura..... *Universita di Roma Tor Vergata*
Tornambe Antonio ..... *Universita di Roma*

Robot Force Control: Some Comments on System Convergence (T2-021)
Dimogianopoulos Dimitrios ..... *University of Patras*
Zotovic R..... *Universidad Politécnica de Valencia*

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FM1-B: Fuzzy Systems

Takes Place: Friday, 8:30-10:00
Chair(s): Chrysostomos Stylios
Marian Barbu

Dynamic Focusing of Awareness in Fuzzy Control Systems (T3-004)
Kuljaca Ognjen ..... *ARRI, University of Texas at Arlington*
Lewis Frank L. ..... *ARRI, University of Texas at Arlington*

Fuzzy Linear Matrix Inequalities (LMI) Control of a Rectangular Thermal Convection Loop (T3-026)
Muscato Giovanni ..... *Universita degli Studi di Catania*
Xibilia Maria Gabriella . *Universita di Messina*

Improved Prediction of Industrial Yield Based on Tools from a Normed Linear Space of Fuzzy Interval Numbers (FINs) (T3-018)
Kaburlasos Vassilis G. ..... *Technological Educational Institute of Kavala*
Petridis Vasilios ..... *Aristotle University of Thessaloniki*

Multi Criteria Decision Making Using Dynamics of Criteria (T3-013)
Jassbi Javad ..... *I.A.U*
Khanmohammadi S. ..... *I.A.U.*
Ribeiro R.A. ..... *Unversidade Lusiada*

Self-Tuning of PI Controllers Using Fuzzy Techniques (T3-028)
Barbu Marian ..... *University of Galati*
Caraman Sergiu ..... *University of Galati*
Ceanga Emil ..... *University of Galati*

Stability Analysis Method for Fuzzy Cognitive Maps (T3-033)
Ermolov Ivan ..... *MSTU STANKIN*
Groumpos Peter P. ..... *University of Patras*
Martchenko Ana ..... *MSTU STANKIN*
Poduraev Jury ..... *MSTU STANKIN*
Stylios Chrysostomos .... *University of Patras*

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FA1-B: Intelligent Control I

Takes Place: Friday, 13:30-15:00
Chair(s): Joze Balic
Alex Alexandridis

Cyclic Loading of Low Carbon Cold Drawn Wires - the Possibility to Stabilize the Yield Stress (T7-021)

Kuzman K..... *University of Ljubljana*
Nastran Miha..... *University of Ljubljana*

Empirical Emulators for Process Monitoring and Optimization (T7-059)

Adams Bryan ..... *The Dow Chemical Company*
Kalos Alex..... *The Dow Chemical Company*
Kordon Arthur K. ..... *The Dow Chemical Company*

Modeling of Continuous Digesters Using Adaptive RBF Neural Network Models (T3-027)

Alexandridis Alex..... *National Technical University of Athens*
Bafas George ..... *National Technical University of Athens*
Sarimveis Haralambos ..... *National Technical University of Athens*

Neural Network Based CNC Control of Machine Tools (T3-010)

Balic Joze ..... *University of Maribor*

Neural Networks Application in an AISI 304L Intergranular Corrosion Resistance Analysis (T3-025)

Iacoviello D. ..... *Universita di Roma "La Sapienza"*
Iacoviello Francesco..... *Universita di Cassino*
Macario M..... *Universita di Cassino*

Real Time Supervising of the Primary Cooling System for the Continuous Casting Installations Using Artificial Intelligence Techniques (T3-029)

Barbu Marian ..... *University of Galati*
Ceanga Emil ..... *University of Galati*
Gheorghiu C..... *University of Galati*

FA2-B: Intelligent Control II

Takes Place: Friday, 15:30-17:00
Chair(s): Gerhard Geiger
Jose Antonio Martinez

A Behavioral Feedback Model for Financial Markets (T7-103)
Gerencser Laszlo ..... *Hungarian Academy of Sciences*
Matyas Zalan ..... *Hungarian Academy of Sciences*

A Modified Adaptive Fuzzy Control System Algorithm (T3-008)
Asran A. S..... *Arab Academy for Science & Technology*
El-Geneidy M. M. ..... *University of Alexandria*

Emotional Temporal Difference Learning Based Intelligent Controller (T3-019)
Abdi Javad ..... *University of Tehran*
Rashidi Farzan ..... *Tehran University*

Extending Classical Pipeline Models with Neural Nets (T7-006)
Geiger Gerhard ..... *Fachhochschule Gelsenkirchen*
Matko Drago ..... *University of Ljubljana*
Werner Thomas ..... *Fachhochschule Gelsenkirchen*

Fuzzy Modelling and Control of Marine Diesel Engine Process (T3-023)
Antonic Radovan..... *Split College of Maritime Studies*
Kuljaca Ljubomir..... *University of Zagreb*
Vukic Zoran ..... *University of Zagreb*

Virtual Thermal Sensors for a Spacecraft (T7-104)
Donati Alessandro..... *European Space Operations Centre*
Martinez-Heras Jose Antonio..... *European Space Operations Centre*

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IV12: Internet-Based Human Machine Interaction for Educational Mechatronics Systems

Takes Place: Friday, 8:30-10:00
Chair(s): M. Abderrahim

An Online Robot Educational Project (IV12-07)
Baker Duncan I. ..... *The University of Reading*
Gatward Andrew ..... *The University of Reading*
McKee Gerard ..... *The University of Reading*

Metrics for QoS in Real-Time Interaction over the Internet (IV12-03)
Gillet Denis ..... *School of Engineering EPFL*
Salzmann Christophe ..... *School of Engineering EPFL*

Multicast Approach for Building Web-Based Educational Environment: Mobile Robotics Lab as a Case Study (IV12-06)
Khamis A. ..... *Carlos III University of Madrid*
Salichs M. ..... *Carlos III University of Madrid*
Urbano F. ..... *Carlos III University of Madrid*

Navigation Experiments with Mobile Outdoor Rovers via Internet (IV12-04)
Meng Qinghao ..... *University of Applied Sciences FH Ravensburg-Weingarten*
Schilling Klaus ..... *University of Applied Sciences FH Ravensburg-Weingarten*
Shankar Priya Rajesh ..... *University of Applied Sciences FH Ravensburg-Weingarten*

Remote Experimentation in Control Engineering (IV12-01)
Schmid Christian ..... *Institute of Automation and Computer Control (ATP)*

Wireless Communication Data Link Protocol for Cooperating and Tele-Operated Mobile Robots (IV12-05)
Perez Vernet Mónica ..... *University of Würzburg*

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WM2-B: LMI

Takes Place: Wednesday, 11:45-13:00
Chair(s): Takahiko Ono
Fabien Claveau

Decentralized Control for Winding Systems: Which Incidence on Reachable Performances? (T7-099)

Chevrel P. ..... *Ecole des Mines de Nantes*
Claveau Fabien ..... *IRCCyN*
Knittel D. ..... *University of Strasbourg I*
Yagoubi M. ..... *Ecole des Mines de Nantes*

Eigenvalue Assignment with Spectral Condition Number Optimization by Static Output Feedback (T7-014)

Carotenuto L. ..... *Universita degli Studi della Calabria*
Franze Giuseppe ..... *Universita degli Studi della Calabria*

Partial Eigenstructure Assignment by State Feedback: an LMI Approach (T7-026)

Benzaouia Abdellah ..... *Faculty of Science Semlalia*
El Faiz S. ..... *Faculty of Science Semlalia*

Selection of the Initial Controllers in Design of the Critical Control Systems (T7-073)

Inooka Hikaru..... *Tohoku University*
Ishihara Tadashi ..... *Tohoku University*
Ono Takahiko..... *Tohoku University*

The Regulator Problem for Linear Systems with Constrained Control: an LMI Approach (T7-025)

Benzaouia Abdellah ..... *Faculty of Science Semlalia*
El Faiz E. ..... *Faculty of Science Semlalia*

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FM2-C: LPV

Takes Place: Friday, 11:30-12:30
Chair(s): Fredrik Bruzelius
Toshio Eisaka

A New Approach to Stochastic Causal System Continualization (T7-102)
Arnost Rene..... *University of West Bohemia*
Zampa Pavel ..... *University of West Bohemia*

All Quadratically Stabilizing Controllers for Polytopic LPV Systems (T7-082)
Eisaka Toshio ..... *Kitami Institute of Technology*

Induced L2-Gain Domain for LPV-Gain Scheduled Control Systems (T5-010)
Breitholtz Claes..... *Chalmers University of Technology*
Bruzelius Fredrik ..... *Chalmers University of Technology*
Pettersson Stefan ..... *Chalmers University of Technology*

Inversion of LPV Systems (T7-083)
Balas G..... *University of Minnesota*
Bokor Jozsef..... *Hungarian Academy of Sciences*
Szabo Zoltan ..... *Hungarian Academy of Sciences*

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WM1-A: Marine Control

Takes Place: Wednesday, 8:30-10:15
Chair(s): Guy Beale
Zoran Vukic

An Onboard Mission Replanning System for Autonomous Underwater Vehicles (T8-002)
Pfuetzenreuter Torsten..... *Ilmenau Technical University*

Control of an Underactuated Underwater Robotic Manipulator (T2-030)
Di Giamberardino Paolo ..... *University of Rome "La Sapienza"*
Sabbadini F. ..... *University of Rome "La Sapienza"*

Controller Reconfiguration for Stern Plane Jams in Underwater Vehicles (T7-055)
Beale Guy ..... *George Mason University*
Shahid Mian Zainularafeen ..... *George Mason University*

Nonlinear Filtering for a Nonlinear Vision-Based System for the Relative Tracking of Two Marine Vehicles (T8-001)
Athans Michael..... *Instituto Superior Tecnico*
Chareyron Sophie ..... *INRIA Rhone-Alpes*

On the Design of an Autonomous Robot Fish (T8-004)
Papadopoulos Evangelos..... *National Technical University of Athens*
Triantafyllou George ..... *National Technical University of Athens*
Tzeranis Dimitrios ..... *National Technical University of Athens*

Research on Dynamic Lift Coefficient of Lift Feedback FIN Stabilizerand Its PIDNN Controller (T7-027)
Chen Fang ..... *Harbin Engineering University*
Jin Hongzhang ..... *Harbin Engineering University*
Yao Xuliang ..... *Harbin Engineering University*
Zhang Haipeng ..... *Harbin Engineering University*

Scope and Application of Reconfigurable Control (T8-003)
Antonic Radovan..... *Split College of Maritime Studies*
Bakaric Vedran..... *Brodarski institut*
Vukic Zoran ..... *University of Zagreb*

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IV06: Mechatronics Approach in the Design and Operation of Non-Conventional Robots

Takes Place: Friday, 11:30-12:30
Chair(s): G. Conte

Design and Control of an Anthropometric Robotic Leg (IV06-03)

Guccione S. ..... *Dipartimento di Ingegneria Elettrica Elettronica e dei Sistemi*
Muscato Giovanni ..... *Universita degli Studi di Catania*
Spampinato G. ..... *Dipartimento di Ingegneria Elettrica Elettronica e dei Sistemi*

Design and Operation of a Quadrupedal Robot (IV06-04)

Conte G. ..... *University of Ancona*
Scaradozzi D. ..... *University of Ancona*
Suardi A. ..... *University of Ancona*

Mechatronic Design of a Parallel Robot for High-Speed, Impedance-Controlled Manipulation (IV06-01)

Bruzzone L. ..... *University of Genova*
Molfino R.M. ..... *University of Genova*
Zoppi M. ..... *University of Genova*

On the Force-Controlled Assembly Operations of a New Parallel Kinematics Manipulator (IV06-02)

Callegari M. ..... *University of Ancona*
Suardi A. ..... *University of Ancona*

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WA2-A: Mobile Robots I

Takes Place: Wednesday, 16:00-17:30
Chair(s): Nikos Papanikolopoulos
Alfredo Weitzenfeld

A Control System for Teams of Off-the-Shelf Scouts and MegaScouts (T2-018)

Burt Ian ..... *University of Minnesota*
Jackson Bennett ..... *University of Minnesota*
Kratochvil Bradley ..... *University of Minnesota*
Papanikolopoulos Nikos..... *University of Minnesota*

A New Approach to Decentralized Conflict Resolution and Utilizing GA in Path Planning for a Novel Map Representation in Evolutionary Multi-Agent Systems Due to Team Learning (T2-003)

Javadi Amir H..... *Azad University of Qazvin*
Mojabi Puyan..... *Iran University of Science and Technology*

Embedded Mobile Systems: From Brain Theory to Neural-Based Robots (T2-029)

Weitzenfeld Alfredo..... *ITAM*

Fuzzy-Sugeno Lateral Tyre Modelling of a Mobile Robot (T2-017)

Economou John ..... *Cranfield University*
Luk P.C.K..... *Cranfield University*
Tsourdos A..... *Cranfield University*
White B.A. ..... *Cranfield University*

Optimization By Simulated Annealing of the Power Necessary to a Mobile Manipulator (T2-005)

Ali Yousnadj..... *Military Polytechnic School*
Moussa Haddad ..... *Military Polytechnic School*

Visualized Simulation of Off-Tracking Elimination in the n-Trailer Problem (T7-052)

Davrazos Gregory..... *University of Patras Rio*
Deligiannis Vassilios..... *University of Patras Rio*
Koussoulas Nick ..... *University of Patras Rio*
Manesis Stamatis ..... *University of Patras Rio*

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WA3-A: Mobile Robots II

Takes Place: Wednesday, 17:30-18:30
Chair(s): Nikos Papanikolopoulos
Alfredo Weitzenfeld

Artificial Potential Field Approach to Path Tracking for a Non-Holonomic Mobile Robot (T2-011)
Sorensen Mathias Jesper ... *Aalborg University*

Introducing Climax: A Novel Strategy to a Tri-Wheel Spiral Robot (T2-002)
Javadi Amir H..... *Azad University of Qazvin*
Mojabi Puyan..... *Iran University of Science and Technology*

Unicycle Vision Based Path Following Control (T2-028)
Lapierre Lionel..... *Instituto Superior Tecnico*
Pascoal Antonio ..... *Instituto Superior Tecnico*
Soetanto D.J. ..... *Instituto Superior Tecnico*

IV08-09: Modelling, Estimation and Control of Infinite Dimensional Systems - Part I

Takes Place: Friday, 13:30-15:00
Chair(s): M.A. Demetriou

Control of Fluid Flow in the Vertical Bridgman Crystal Growth Process (IV09-01)
Daoutidis Prodromos..... *University of Minnesota*
Derby Jeffrey ..... *University of Minnesota*
Sonda Paul..... *University of Minnesota*
Yeckel Andrew..... *University of Minnesota*

Control of Unsteady Electromagnetic Acceleration in Parallel Plate Channels (IV08-04)
Demetriou Michael A..... *Worcester Polytechnic Institute*
Gatsonis Nikolaos A..... *Worcester Polytechnic Institute*

Numerical Stability of Green-Galerkin Thermal Control Method in Infinite Dimensional Dynamic Systems (IV09-02)
Alaeddine Tarek..... *Tufts University*
Doumanidis Haris ..... *National Science Foundation*

On Actuators/Sensors Placement for Collocated Flexible Plates (IV08-01)
Caruso G..... *Univ. Roma Tor Vergata*
Galeani Sergio..... *Universita di Roma Tor Vergata*
Menini Laura..... *Universita di Roma Tor Vergata*

On the Boundary Control of Passive Infinite Dimensional Systems (IV08-03)
Morgul Omer..... *Bilkent University*

On the Determination of Moving Sensor Policies for Parameter Estimation of Distributed Parameter Systems (IV08-02)
Ucinski Dariusz..... *University of Zielona Góra*

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IV09-10: Modelling, Estimation and Control of Infinite Dimensional Systems - Part II

Takes Place: Friday, 15:30-17:00
Chair(s): M.A. Demetriou

An Approach to Stochastic Distributed Systems with Fractional Brownian Motion (IV10-03)
Duncan T.E. ..... *University of Kansas*
Maslowski B. ..... *Academy of Sciences of Czech Republic*
Pasik-Duncan B. ..... *University of Kansas*

Burgers Model of Turbulence: Probabilistic Representations, Free Energy and Large Deviations (IV10-04)
Charalambous C.D. ..... *University of Ottawa*
Djouadi S.S. ..... *University of Arkansas at Little Rock*

Coarse Computation: Enabling Microscopic Simulators to Perform System Level Tasks (IV09-04)
Kevrekidis Yannis ..... *Princeton University*

Convergence Results for Continuous Descent Methods (IV10-01)
Aizicovici Sergiu
Reich Simeon ..... *The Technion-Israel Institute of Technology*
Zaslavski Alexander ..... *The Technion-Israel Institute of Technology*

Implementation of Numerical Approximations of Control of the Schrodinger Equation with MATLAB (IV09-03)
Kime Katherine ..... *University of Nebraska at Kearney*

Recent Results on Reciprocals of Well-Posed Linear Systems (IV10-02)
Curtain Ruth F. ..... *University of Groningen*

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TM2-C: Multiple-Model Systems

Takes Place: Thursday, 11:45-13:15
Chair(s): Munther Dahleh
Anastasios Trontis

A Hybrid Automata Modell of TCR Triggering Dynamics (T7-096)
Athans Michael..... *Instituto Superior Tecnico*
Carneiro Jorge..... *Gulbenkian Institute of Science*
Lima Pedro ..... *Instituto Superior Tecnico*
Milutinovic DEJAN ..... *Instituto Superior Tecnico*

An Information Theoretic Approach to the Statistical Learning of a Class of Hybrid Systems (T7-110)
Dahleh Munther A..... *Massachusetts Institute of Technology*
Martins Nuno ..... *Massachusetts Institute of Technology*

Decentralized Variable Structure Control for Interconnected Systems with Mismatched Uncertainties (T1-011)
Jing Yuan-wei..... *Northeastern University*
Li Hua ..... *Northeastern University*
Zhang Si-ying ..... *Northeastern University*

Identification of Mass-Spring-Dashpot Systems Using Multiple-Model Adaptive Estimation (MMAE) Algorithms (T5-014)
Athans Michael..... *Instituto Superior Tecnico*
Fekri Sajjad..... *Instituto Superior Tecnico*
Pascoal Antonio ..... *Instituto Superior Tecnico*

On the Control Synthesis for Target Problems in Continuous and Hybrid Systems Using Level Set Methods (T7-045)
Spathopoulos Michael P. ..... *University of Strathclyde*
Trontis Anastasios..... *University of Strathclyde*

Stability of Switching Controlled Chained Systems Based on Time-State Control Form (T7-081)
Fujimoto Hideo ..... *Nagoya Institute of Technology*
Yamakawa Satoko ..... *Nagoya Institute of Technology*

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TM2-B: Neural Networks

Takes Place: Thursday, 11:45-13:15
Chair(s): Evelio Gonzalez
Georgios Yannakakis

A Planning for Neural Networks Teaching in Control Using a Java-Based Toolkit (T3-009)

Aguilar R.M. ..... *University of La Laguna*
Gonzalez Evelio..... *University of La Laguna*
Hamilton Alberto..... *University of La Laguna*
Marichal Roberto L..... *University of La Laguna*
Moreno Lorenzo..... *University of La Laguna*

Adaptive Control for Nonlinear Multivariable Systems Using a Single-Layer Neural Network and Conventional Linear Controller (T5-001)

Al-Zohary T. A. ..... *Al_Azhar University*
Wahdan A. M. ..... *Ain Shams University*

Evenet2000 as Software Application for System Identification and Control (T3-005)

Gonzalez Evelio..... *University of La Laguna*
Hamilton Alberto..... *University of La Laguna*
Marichal Roberto L..... *University of La Laguna*
Moreno Lorenzo..... *University of La Laguna*

Hybrid Modeling Based Adaptive Neural Controller (T3-030)

Andrasik Anton..... *Slovak University of Technology*
de Azevedo Sebastiao Feyo... *University of Porto*
Meszaros Alois..... *Slovak University of Technology*

Nearly Optimal Control Laws for Nonlinear Systems with Saturating Actuators Using a Neural Network HJB Approach (T3-014)

Abu-Khalaf Murad ..... *ARRI, University of Texas at Arlington*
Lewis Frank L. ..... *ARRI, University of Texas at Arlington*

Performance, Robustness and Effort Cost Comparison of Machine Learning Mechanisms in FlatLand (T7-065)

Hallam John ..... *University of Southern Denmark*
Levine John ..... *The University of Edinburgh*
Papageorgiou Markos..... *Technical University of Crete*
Yannakakis Georgios..... *The University of Edinburgh*

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TM1-B: Nonlinear Control

Takes Place: Thursday, 8:30-10:15
Chair(s): Yannis Kevrekidis
Pavel Prautsch

Adaptive Control Law for Uncertain System with Static Nonlinearity (T5-012)
Bobtsov Alexey ..... *St.-Petersburg State Technical University*
Romasheva Darina ..... *St.-Petersburg State Technical University*

Coarse Bifurcation Diagrams via Microscopic Simulators: A State-Feedback Control-Based Approach (T7-097)
Kevrekidis Yannis ..... *Princeton University*
Maroudas Dimitrios ..... *University of Massachusetts Amherst*
Siettos Constantinos ..... *Princeton University*

Nonlinear Resonance Jump in Turbine Governor Positioning System (T1-017)
Horvat Krunoslav ..... *Brodarski Institute*
Kuljaca Ljubomir ..... *University of Zagreb*
Kuljaca Ognjen ..... *ARRI, University of Texas at Arlington*

On Transformation of Nonholonomic Systems to Time-State Control Form (T7-114)
Mita Tsutomu..... *Tokyo Institute of Technology*
Prautsch Pavel ..... *University of West Bohemia*

Separation Principle for a Class of Non-Linear Systems (T1-014)
Cerny Vaclav ..... *University of West Bohemia*
Hrusak Josef ..... *University of West Bohemia*

Suboptimal Control of a One-Dimensional Nonlinear Heat Equation Using POD and θ - D Techniques (T7-112)
Balakrishnan S. N..... *University of Missouri - Rolla*
Padhi Radhakant ..... *University of Missouri - Rolla*
Xin Ming ..... *University of Missouri - Rolla*

Two-Layer Control of an Ion Exchange Process for Desalination of Water (T7-095)
Tzoneva Raynitchka ..... *Peninsula Technikon*

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WM1-B: Observers

Takes Place: Wednesday, 8:30-10:15
Chair(s): Anastasia Papavasiliou
Patrick H. Menold

About Optimality of Discrete-Time LQ Observer Based Regulator (T6-008)
Gessing Ryszard ..... *Politechnika Slaska*

Adaptive Biomass Observer on the Basis of Measurements of Oxygen (T7-051)
Ignatova Maya ..... *Bulgarian Academy of Sciences*

Adaptive Estimation of Partially Observed Nonlinear Stohastic Systems (T1-013)
Papavasiliou Anastasia..... *Columbia University*

Finite Time Convergent Observers for Linear Time-Varying Systems (T7-078)
Allgower Frank..... *Universitat Stuttgart*
Findeisen Rolf ..... *Universitat Stuttgart*
Menold Patrick H. ..... *Universitat Stuttgart*

Quantization Effect Influences Identification in Adaptive LQ Controller (T5-003)
Pivonka Petr ..... *Brno University of Technology*
Svancara Kamil ..... *Brno University of Technology*

Robust Identification of AR Models Based on Empirical Risk Minimization (T5-015)
Filipovic Vojislav ..... *RCT*

Unknown Inputs, Robust State Observation for Parameter Dependent Linear Systems (T7-012)
Conte G..... *Universita' di Ancona*
Guidone Peroli G..... *Universita' di Ancona*
Perdon A.M. ..... *Universita' di Ancona*

IV07: On the Control Strategies

Takes Place: Wednesday, 14:00-15:30
Chair(s): P. Zagalak

Algorithms for Control of a Rotating Pendulum (IV07-03)
Ernest Petr ..... *Czech Technical University in Prague*
Horacek Petr ..... *Czech Technical University in Prague*

Approximate Solutions to Root Clustering Problem (IV07-05)
Fatouros S. ..... *CITY UNIVERSITY LONDON*
Karcanias N. ..... *CITY UNIVERSITY LONDON*
Mitrouli M..... *University of Athens*

Learning Through Gradient-Type Reinforcement for N-Person Repeated Constrained Games: Counter-Coalition Space Approach (IV07-04)
Godoy-Alcantar Martin..... *CINVESTAV-IPN*
Gomez-Ramirez Eduardo ..... *Universidad La Salle*
Poznyak Alexander S. ..... *CINVESTAV-IPN*

On the Control of an Uncertain Rigid Body Dynamics (IV07-06)
Fliess Michel..... *Laboratoire GAGE*
Sira-Ramirez Hebertt ..... *Cinvestav-IPN*

Robust Control of an Underactuated Planar 2R Manipulator (IV07-02)
Alvarez-Gallegos Jaime ..... *CINVESTAV-IPN*
Castro-Linares Rafael ..... *CINVESTAV-IPN*
Rosas-Flores J. Alfredo ..... *UPIITA-IPN*

Some Remarks on the Problem of Model Matching By State Feedback (IV07-01)
Duarte-Mermoud Manuel A..... *University of Chile*
Torres-Munoz Jorge A. ..... *CINVESTAV del IPN*
Zagalak Petr ..... *Academy of Sciences of the Czech Republic*

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TA2-B: Optimal Control I

Takes Place: Thursday, 15:15-16:30
Chair(s): John Baras
Marcel Sidi

A New Adaptive Aggregation Algorithm for Infinite Horizon Dynamic Programming (T7-043)
Baras John ..... *University of Maryland*
Zhang Chang..... *University of Maryland*

Loop-Gain Optimization of NMP-Unstable Plants (T6-007)
Sidi Marcel..... *Holon Academic Institute of Technology*

Minimax Linear-Quadratic Control Problems for Descriptor Systems with Properly Stated Leading Term (T7-100)
Kurina Galina ..... *Voronezh State Forestry Academy*

Performance Limitations of Discrete-Time Systems in Tracking Sinusoidal Signals (T7-018)
Chen Jie ..... *University of California*
Qiu Li ..... *Hong Kong University of Science and Technology*
Su Weizhou ..... *Hong Kong University of Science and Technology*

Research of Multi-Level Optimization Algorithm in Large-Scale System (T6-001)
Kun Qian ..... *The Air Force Engineering University*
Meiyan Gao..... *The Air Force Engineering University*
Shousheng Xie..... *The Air Force Engineering University*

TA3-B: Optimal Control II

Takes Place: Thursday, 17:00-18:00
Chair(s): John Baras
Marcel Sidi

Controlled Lyapunov-Exponents with Application in Optimization, Finance and Biology (T7-054)
Gerencser Laszlo ..... *Hungarian Academy of Sciences*
Rasonyi Miklos..... *Hungarian Academy of Sciences,*
Vago Zsuzsanna ..... *Hungarian Academy of Sciences,*

On-Line Gradient Optimization of a Fractional Order Hold (T6-012)
Fujarewicz Krzysztof ..... *Silesian University of Technology*

Optimization of a Simulated Iron-Oxide Pellets Induration Furnace (T7-047)
Desbiens Andre..... *Université Laval*
Hodouin Daniel ..... *Université Laval*
Pomerleau Dominique..... *Université Laval*

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TM1-C: PID Control

Takes Place: Thursday, 8:30-10:15
Chair(s): Zdenko Kovacic
Kostas Arvanitis

A Tuning Method of Multi Variable PID Gains Using Jacobian (T7-044)
Chung Byeong-Mook.... *Yeungnam University*
Lim Yoon-Kyu..... *Yeungnam University*

Adaptive Control Scheme Based on Hybrid Adaptation of Lead-Lag Compensator Parameters (T7-141)
Bogdan Stjepan ..... *University of Zagreb*
Kovacic Zdenko ..... *University of Zagreb*
Puncec Mario ..... *University of Zagreb*

Computation of Stabilizing PI Controllers for Interval Systems (T7-090)
Kaya Ibrahim..... *Inonu University*
Tan Nusret ..... *Inonu University*

Controller Design for Stable Processes Using User Specified Gain and Phase Margin Specifications and Two Degree-of-Freedom IMC Structure (T7-088)
Kaya Ibrahim..... *Inonu University*
Tan Nusret ..... *Inonu University*

Controller Tuning for Integrating Processes with Time Delay Part I: IPDT Processes and the Pseudo-Derivative Feedback Control Configuration (T7-040)
Arvanitis Kostas..... *Agricultural University of Athens*
Sigrimis N.A..... *Agricultural University of Athens*
Stellas I.Z. ..... *Agricultural University of Athens*
Syrkos G..... *Agricultural University of Athens*

Controller Tuning for Integrating Processes with Time Delay Part II: Robustness Analysis Under Structured Parametric Uncertainty (T7-041)
Arvanitis Kostas..... *Agricultural University of Athens*
Sigrimis N.A..... *Agricultural University of Athens*
Stellas I.Z. ..... *Agricultural University of Athens*
Syrkos G..... *Agricultural University of Athens*

Controller Tuning for Integrating Processes with Time Delay Part III: the Case of First Order Plus Integral Plus Dead-Time Processes (T7-042)
Arvanitis Kostas..... *Agricultural University of Athens*
Sigrimis N.A..... *Agricultural University of Athens*
Stellas I.Z. ..... *Agricultural University of Athens*
Syrkos G..... *Agricultural University of Athens*

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IV04: Polynomial Design Methods - A New Theoretical Achievements

Takes Place: Wednesday, 16:00-17:30
Chair(s): V. Kucera
M. Hromcik

A Pencil Equivalent of a General 2-D Polynomial Matrix (IV04-05)
Boudellioua Mohamed S. ..... *Sultan Qaboos University*
Chentouf Boumediene ..... *Sultan Qaboos University*

Adaptive Control Based on Plant-Parameterization Using δ-Models (IV04-02)
Dostal Petr ..... *Tomas Bata University in Zlin*
Gazdos Frantisek..... *Tomas Bata University in Zlin*
Navratil Petr ..... *Tomas Bata University in Zlin*

Design of Controllers for Unstable Time Delay Systems Using Polynomial Method (IV04-04)
Bobal Vladimir ..... *Tomas Bata University in Zlin*
Dostal Petr ..... *Tomas Bata University in Zlin*
Gazdos Frantisek..... *Tomas Bata University in Zlin*

Optimal Open-Loop Tracking Using Sampled-Data System with Preview (IV04-03)
Lampe Bernhard P. ..... *University of Rostock*
Polyakov K.Yu. ..... *State University of Ocean Technology*
Rosenwasser E.N. ..... *State University of Ocean Technology*

Relationship Between Infinite Eigenvalue Assignment for Singular Systems and Solvability of Polynomial Matrix Equation (IV04-01)
Kaczorek Tadeusz..... *Warsaw University of Technology*

Zero Structures of n-D Systems (IV04-06)
El-nabrawy Eman..... *Loughborough University*
Pugh A.C. ..... *Loughborough University*

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IV05: Polynomial Design Methods - Applications and Algorithms

Takes Place: Wednesday, 17:30-19:00
Chair(s): V. Kucera
M. Hromcik

μ-Synthesis: Simple Controllers for Time Delay Systems (IV05-05)
Dlapa Marek ..... *Tomas Bata University*
Prokop Roman ..... *Tomas Bata University*

Application of Controllers Based on Polynomial Methods to Coupled Drives Laboratory Process (IV05-03)
Bobal Vladimir ..... *Tomas Bata University in Zlin*
Kubalcik Marek ..... *Tomas Bata University*

H_2 Optimal Control of a Chemical Reactor (IV05-01)
Cirka Lubos ..... *Slovak University of Technology in Bratislava*
Fikar Miroslav..... *Slovak University of Technology in Bratislava*
Mikles Jan ..... *Slovak University of Technology in Bratislava*

New Algorithm for Polynomial Plus-Minus Factorization Based on Band Structured Matrix Decomposition (IV05-04)
Hromcik Martin..... *Czech Technical University in Prague*
Sebek Michael..... *Czech Technical University in Prague*

New Package for Effective Polynomial Computation in MATHEMATICA (IV05-02)
Hromcik Martin..... *Czech Technical University in Prague*
Kujan Petr ..... *Czech Technical University in Prague*
Sebek Michael..... *Czech Technical University in Prague*

On Hurwitz Stability of Weighted Diamond Polynomials (IV05-06)
Otsuka Naohisa ..... *Tokyo Denki University*

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WM1-C: Power Systems & Converters

Takes Place: Wednesday, 8:30-10:15
Chair(s): Giuseppe Fusco
Pascal Maussion

A Simple Model Estimator for Multiple Model Control of a Buck DC-DC Converter (T7-061)

Alejo Dominique..... *d'Electronique Industrielle de Toulouse*
Faucher Jean ..... *d'Electronique Industrielle de Toulouse*
Maussion Pascal ..... *d'Electronique Industrielle de Toulouse*

Active Power Filter for Power Compensation Under Non-Ideal Mains Voltages (T7-118)

Kale Murat ..... *Kocaeli University*
Ozdemir Engin ..... *Kocaeli University*
Ozdemir Sule ..... *Kocaeli University*

Adaptive Voltage Regulation with Harmonic Distortion Containment Objectives in Electrical Power Systems (T7-048)

Fusco Giuseppe ..... *Universita degli Studi di Cassino*
Russo Mario ..... *Universita degli Studi di Cassino*

Modelling of Transient Currents in Transmission Lines with Phase Delay and Inductances (T7-011)

Alastruey Carlos F..... *State University of Navarra*
De la Sen Manuel..... *University of the Basque Country*

Nonlinear and Adaptive Control of Buck-Boost Power Converters (T7-007)

CHAOUI F.Z..... *ISMRA*
El Fadil H. ..... *ISMRA*
Giri Fouad ..... *ISMRA*
Haloua M..... *ISMRA*
Ouadi H. ..... *ISMRA*

Nonlinear Control of a Photovoltaic Converter (T7-053)

Boitier Vincent ..... *CNRS / LAAS*
Mahout Vincent ..... *CNRS / LAAS*

OTA – Based Control System of Active Power Filter for Harmonic and Reactive Power Compensation (T7-023)

Chipophop Boonruk ..... *King Mongkut's University of Technology Thonburi*
Koompai Chayant ..... *King Mongkut's University of Technology Thonburi,*
Sombat Vanichprapa ..... *King Mongkut's University of Technology Thonburi*
Watanabe Kenzo ..... *Shizuoka University*

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FM2-B: Prediction & Data Reconstruction

Takes Place: Friday, 11:30-12:30
Chair(s): Anthony Tzes

A Worst-Case Framework for Perfect Reconstruction of Discrete Data Transmissions (T7-115)

Hadjicostis Christoforos..... *University of Illinois at Urbana-Champaign*
Touri Rousbeh..... *University of Illinois at Urbana-Champaign*
Voulgaris Petros..... *University of Illinois at Urbana-Champaign*

Application of Lifting Scheme to Transmultiplexers (T7-068)

Dziech Andrzej..... *University of Mining and Metallurgy*
Tibken Bernd ..... *Wuppertal University*
Ziolko Mariusz..... *University of Mining and Metallurgy*

Lattice l-Step Ahead Output Uncertainty Predictor for Auto-Regressive Systems (T7-121)

Nikolakopoulos George ..... *University of Patras*
TZES ANTHONY..... *University of Patras*

MPC Control Using AR-Volterra Models (T5-002)

Kozak S. ..... *Slovak University of Technology in Bratislava*
Taraba Peter ..... *Slovak University of Technology in Bratislava*

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WA1-A: Robotics I

Takes Place: Wednesday, 14:00-15:30
Chair(s): Amin Mannani
Gulay Oke

A Fuzzy Controller Based on Fuzzy Lyapunov Synthesis for a Single-Link Flexible Manipulator (T2-032)

Mannani Amin ..... *Amirkabir University of Technology*
Talebi H.A. ..... *Amirkabir University of Technology*

A Teleoperating System for Underwater Manipulator to Practice a Time Limit Task (T2-025)

Ito Masanori ..... *Tokyo University of Mercantile Marine*
Shimizu Etsuro..... *Tokyo University of Mercantile Marine*
Tanaka Kensuke
Zhang PING ..... *Tokyo University of Mercantile Marine*

Derivation of Kinematic Parameters from a 3D Robot Model Used for Collision-Free Path Planning (T2-039)

Kovacic Zdenko ..... *University of Zagreb*
Reichenbach Tomislav ..... *University of Zagreb*

Design and Implementation of a Vision Based Control System Towards Moving Object Capture for a 3-Joint Robotic Manipulator (T2-038)

Boz Ali Fuat ..... *Sakarya University*
Ekiz Hüseyin ..... *Sakarya University*
Koker Rasit ..... *Sakarya University*
Oz Cemil ..... *Sakarya University*

Neural Network Based Trajectory Planning for Tip Tracking of a Two-Link Flexible Robot Manipulator (T2-024)

Istefanopulos Yorgo ..... *Bogazici University*
Oke Gulay ..... *Bogazici University*

Visual Servoing Using Online Calibration (T7-033)

Cho Young-Sik..... *Yeungnam University*
Joo Haeho ..... *Yeungnam University*
Lee Jeh-Won ..... *Yeungnam University*

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TM1-A: Robotics II

Takes Place: Thursday, 8:30-10:15
Chair(s): Antonio Tornambe
Adriano Siqueira

A Dexterity Maximizing Continuation Method for the Inverse Kinematics of Redundant Manipulators (T2-013)
Mueller Andreas..... *Chemnitz University of Technology*

An Adaptive Neural Controller and Direct Adaptive Controllers for Robot Manipulators in the Joint Space (T2-014)
Martins Nardenio..... *Universidade Estadual de Maringa*

Nonlinear Observer Design for Robot Manipulators. A Survey (T2-034)
Abdessameud Abdelkader..... *Univ. of Boumerdes*
Khelfi M.F..... *University of Oran Es-Sénia*

Output Feedback Nonlinear Hinf Control of Underactuated Manipulators (T2-035)
Buosi Cleber ..... *University of Sao Paulo at Sao Carlos*
Siqueira Adriano A.G. ..... *University of Sao Paulo at Sao Carlos*
Terra Marco H..... *University of Sao Paulo at Sao Carlos*

Robot Manipulators Control via a Variable Structure Observer (T2-033)
Abdessameud Abdelkader..... *Univ. of Boumerdes*

State Observers for the Asymptotic Inversion of Nonlinear Maps, When the Reference Trajectory Is Not Differentiable (T2-006)
Galeani Sergio..... *Universita di Roma Tor Vergata*
Menini Laura..... *Universita di Roma Tor Vergata*
Tornambe Antonio ..... *Universita di Roma Tor Vergata*

The Numerical Analysis of the Nonlinear Motion of a Flexible Rotating Beam (T7-072)
El-Absy Hanaa..... *Alexandria University*
Elkobrosy Galal..... *Alexandria University*
Elnaggar Fathy..... *Alexandria University*

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FA1-A: Robotics III

Takes Place: Friday, 13:30-15:00
Chair(s): Edward S. Kolesar
Teodor Akinfiev

A Distributed Blackboard-Based Control System for Modular Self-Reconfigurable Robots (T2-015)

Ko Albert..... *the University of Hong Kong*
Lau H.Y.K. ..... *the University of Hong Kong*
Lau T.L. ..... *the University of Hong Kong*

Design and Control of a MEMS Microengine Fabricated from Symmetrical Polysilicon Surface Micromachined Electrothermal Microactuators (T7-001)

Jayachandran Alfred J. ..... *Texas Christian University*
Kolesar Edward S. ..... *Texas Christian University*
Odom William E. ..... *Texas Christian University*
Ruff Matthew D. ..... *Texas Christian University*

Development of a Nanohandling Robot Cell (T2-008)

Fahlbusch Stephan..... *University of Oldenburg*
Fatikow Sergej ..... *University of Oldenburg*
Garnica Stefan..... *University of Oldenburg*
Huelsen Helge..... *University of Oldenburg*
Kortschack Axel..... *University of Oldenburg*

Modelling and Control of the Dual Smart Drive (T7-046)

Akinfiev Teodor ..... *Industrial Automation Institute*
Armada M..... *Industrial Automation Institute*
Fernandez Roemi ..... *Industrial Automation Institute*

Recognition and Modeling of Smart Sensor Integration on Robotic Control Application (T2-016)

Auner Gregory..... *Wayne State University*
Ye Zhengmao ..... *Wayne State University*

Vertical Movement of Resonance Hopping Robot with Electric Drive and Simple Control System (T2-020)

Akinfiev Teodor ..... *Industrial Automation Institute*
Armada M..... *Spanish Council for Scientific Research*
Montes H. ..... *Spanish Council for Scientific Research*

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WM1-D: Robust Control

Takes Place: Wednesday, 8:30-10:15
Chair(s): L. Keviczky
Kazuhisa Ito

A Dominance-Based Approach to Robustness Analysis (T6-002)
Munro Neil ..... *University of Manchester*
Nobakhti Amin ..... *University of Manchester*

An Approach to Optimal and Robust Control of Multi-Rate Sampled-Data Systems (T6-005)
Azad A.M. ..... *The University of New South Wales*
Hesketh T. ..... *The University of New South Wales*

LQG Tracking Problem and Its Tracking Robustness (T5-011)
Mosna Jiri ..... *University of West Bohemia*
Pesek Pavel ..... *University of West Bohemia*

Quasi-Monte Carlo Methods in Robust Control Design (T7-029)
Abdallah Chaouki ..... *University of New Mexico*
Dorato Peter ..... *University of New Mexico*
Hokayem Peter ..... *University of New Mexico*

Robust Stability Limit and Robustness Measure for a GTDOF System (T5-016)
Banyasz Cs. ..... *Hungarian Academy of Sciences*
Keviczky L. ..... *Hungarian Academy of Sciences*

Robust Velocity Control of Water Hydraulic Servomotor Systems via Linearization Approach (T5-009)
Ito Kazuhisa ..... *Sophin University*

Static H_2 and H_{inf} Output-Feedback of State Multiplicative Linear Systems (T7-050)
Gershon Eli..... *Holon Academic institute of Technology*
Shaked U. ..... *Tel-Aviv University*

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FA2-C: Sliding Mode Control

Takes Place: Friday, 15:30-17:00
Chair(s): Ryszard Gessing
Alessandro Beghi

A Note on the Relationships between High-Gain State Feedback and Relay Systems (T1-016)
Beghi Alessandro ..... *Universita di Padova*
Bisiacco Mauro ..... *Universita di Padova*

Application of Sliding Mode Control in Voltage-Controlled Magnetic Levitation Systems (T7-093)
Jalili Mahdi ..... *University of Tehran*
Rashidi Farzan ..... *University of Tehran*

Friction Model for Adaptive Compensation (T5-008)
Lantos Bela ..... *Budapest University of Technology and Economics*
Marton Lorinc ..... *Budapest University of Technology and Economics*

Sliding Mode Control Applied to Pneumatic Servo Drive (T1-009)
Crnekovic Mladen..... *University of Zagreb*
Petric Josko ..... *University of Zagreb*
Situm Zeljko..... *University of Zagreb*

Sliding Mode Control with Decreased Chattering for Nonminimum Phase Plants (T1-015)
Gessing Ryszard ..... *Politechnika Slaska*

WA3-B: Speech Recognition

Takes Place: Wednesday, 17:30-18:30
Chair(s): Jalal Karam
Vassilia Pashaloudi

A Faster Recognition of Similar Acoustic Sounds Using Wavelets (T7-004)
Karam Jalal ..... *Arab Open University*

A New Speech Enhancement Method Based on Wavelet Thresholding the Multitaper Spectrum (T7-017)
Hu Yi..... *University of Texas at Dallas*
Loizou Philipos C. ..... *University of Texas at Dallas*

Feature Extraction and Sign Recognition for Greek Sign Language (T7-060)
Margaritis Konstantinos ..... *University of Macedonia*
Pashaloudi Vassilia..... *University of Macedonia*

Wavelets Based Modelling for Automatic Recognition of Spoken Words (T7-003)
Karam Jalal ..... *Arab Open University*

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FA1-C: Stability

Takes Place: Friday, 13:30-15:00
Chair(s): Miklos Vajta
Jelel Ezzine

A New Sufficient Condition for Stability of Decentralized Control: an LMI Approach (T7-136)
Amirifar Ramin ..... *Sharif University of Technology*
Sadati N. ..... *Sharif University of Technology*

Factorization and BIBO Stability of Certain Discrete Volterra Systems (T1-008)
Kotsios Stelios..... *University of Athens*

Finite Time Stability of Linear Impulsive Dynamical Systems (T7-064)
Kablar Natasa ..... *Lola Institute*

Largest Lyapunov Exponent Assignement: A Genetic/Pole Placement Approach (T7-138)
Ben Cheikh Yosser ..... *ENIT*
Ezzine Jelel ..... *ENIT*

Norm-Based Approach to Componentwise Asymptotic Stability (T7-039)
Pastravanu Octavian ..... *Technical University "Gh. Asachi" of Iasi*
Voicu Mihail ..... *Technical University "Gh. Asachi" of Iasi*

Stability of a Heat Process with Exponential Internal Source (T7-142)
Vajta Miklos..... *University of Twente*

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WA1-C: Time-Delayed Systems

Takes Place: Wednesday, 14:00-15:30
Chair(s): Sauro Longhi
Carlos F. Alastruey

Asymptotic Stabilizability of Non-Linear Delay Systems By Using Delayed Output (T1-001)
Alastruey Carlos F. ..... *State University of Navarra*

Decentralized Control Networks of Multirate Sampled-Data Systems (T7-125)
Ciferri Roberto ..... *Universita Politecnica delle Marche*
Longhi Sauro ..... *Universita Politecnica delle Marche*

On Delay-Dependent Stability in Lossless Propagation Models: A Liapunov-Krasovskii Analysis (T7-071)
Gu Keqin ..... *Southern Illinois University at Edwardsville*
Niculescu Silviu-Iulian ..... *Universite de Technologie de Compiegne*
Rasvan Vladimir ..... *University of Craiova*

Stability Analysis of Low-Order Combustion Systems (T7-084)
Annaswamy Anuradha M. ..... *Massachusetts Institute of Technology*
Niculescu Silviu-Iulian ..... *Universite de Technologie de Compiegne*
Zhong Qing-Chang..... *Imperial College London*

State Feedback Controller for Distributed Systems with Non-Deterministic Time Delays (T7-067)
Alahakoon S. ..... *University of Peradeniya*
Leksell M..... *Royal Institute of Technology KTH*
Samaranayake Lilantha ..... *Royal Institute of Technology KTH*

TA3-C: Traffic Control

Takes Place: Thursday, 17:00-18:00
Chair(s): Elias Kosmatopoulos
Norbert Neuendorf

Apply Adaptive and Cooperative MAS to Urban Traffic Signal Control (T4-010)
Chen Duen-Kai ..... *National Chiao Tung University*
Chen Ruey-Shun..... *National Chiao Tung University*
Lin Szu-Yin..... *National Chiao Tung University*

Demands of the Decentralized Autonomous Intersection Management on the Steer-By-Wire System in Passenger Cars (T7-058)
Dierkes Ulrich..... *University of Paderborn*
Neuendorf Norbert ..... *University of Paderborn*

Implementing Fastest Path Algorithms in a Decentralized Traffic Environment (T4-003)
Kiencke Uwe..... *University of Karlsruhe*
Kriesten Reiner ..... *University of Karlsruhe*

Stability Analysis of the Freeway Ramp Metering Control Strategy ALINEA (T7-086)
Kosmatopoulos Elias..... *Technical University of Crete*
Papageorgiou Markos..... *Technical University of Crete*

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WM2-C: Vehicle Control

Takes Place: Wednesday, 11:45-13:00
Chair(s): Miguel Chaves
Houssem Abdellatif

A Study of Passenger Seat Parameters as a Basis for Active Seat Control (T7-109)
Klooster Samuel ..... *Georgia Institute of Technology*
Singhose William E. ..... *Georgia Institute of Technology*

Automatic Tuning of Electronic Throttle Control Strategy (T7-133)
Deur Josko ..... *University of Zagreb*
Jansz Martin..... *Ford Motor Company*
Pavkovic Danijel ..... *University of Zagreb*
Peric Nedjeljko ..... *University of Zagreb*

Experimental Implementation of an Electromagnetic Automobile Suspension System (T7-123)
Chaves Miguel..... *Instituto Politécnico de Setubal*
Esteves Jorge..... *Instituto Superior Técnico*
Maia Jose..... *Instituto Politécnico de Setubal*
Martins Ismenio..... *Universidade do Algarve*

Nonlinear Identification of Vehicle's Coupled Lateral and Roll Dynamics (T1-005)
Abdellatif Houssem ..... *University of Hanover*
Heimann Bodo..... *University of Hanover*
Hoffmann J. ..... *Volkswagen AG*

Rollover Avoidance for Steer-By-Wire Vehicles By Using Linear Parameter Varying Methods (T7-080)
Bokor Jozsef..... *Hungarian Academy of Sciences*
Gaspar Peter ..... *Hungarian Academy of Sciences*
Szaszi Istvan ..... *Budapest University of Technology and Economics*

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WA2-B: Vision

Takes Place: Wednesday, 16:00-17:30
Chair(s): Ferenc Tel
Ioannis Anagnostopoulos

3D Projective Reconstruction with Decomposed Projective Depths (T7-066)

Lantos Bela ..... *Budapest University of Technology and Economics*
Tel Ferenc ..... *Budapest University of Technology and Economics*

A Cellular Neural Network System for Real-Time Image Processing (T3-006)

Guinea Domingo ..... *Instituto de Automática Industrial-CSIC*
Montufar-Chaveznava Rodrigo ..... *Instituto Nacional de Astrofísica, Óptica y Electrónica*

A Probabilistic Neural Network for Human Face Identification Based on Fuzzy Logic Chromatic Rules (T3-031)

Anagnostopoulos C. ..... *National Technical University of Athens*
Anagnostopoulos Ioannis ..... *National Technical University of Athens*
Kayafas E. ..... *National Technical University of Athens*
Loumos V. ..... *National Technical University of Athens*

Error Computation in the Uniform Color-Spaces sRGB and CIEL*a*b* (T7-008)

Andreadis Ioannis ..... *Democritus University of Thrace*
Tsalides Filippos ..... *DUTH*
Vonikakis Vasilios ..... *DUTH*

Soft Morphological Color Image Processing: A Fuzzy Approach (T7-032)

Andreadis Ioannis ..... *Democritus University of Thrace*
Louverdis Gerasimos ..... *Democritus University of Thrace*

Vision-Based Human Tracking and Activity Recognition (T7-030)

Bodor Robert ..... *University of Minnesota*
Jakson Bennet ..... *University of Minnesota*
Papanikolopoulos Nikos ..... *University of Minnesota*

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