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Content List of 21st Mediterranean Conference on Control and Automation

Technical Program for Wednesday June 26, 2013

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Chair: Kovacic, Zdenko	Univ. of Zagreb		
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Spartali, Iliana	National Tech. Univ. of Athens		
Vlachos, Kostas	National Tech. Univ. of Athens		
Papadopoulos, Evangelos	National Tech. Univ. of Athens		
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Kovacic, Zdenko	Univ. of Zagreb		
Cukon, Marko	Univ. of Zagreb		
Brkic, Kristijan	Inteco d.o.o.		
Vasiljevic, Goran	Univ. of Zagreb		
Mutka, Alan	Faculty of Electrical Engineering and Computing, Univ.		
Miklic, Damjan	Faculty of Electrical Engineering and Computing, Univ.		
Vuglec, Franjo	Pliva d.d.		
Rajkovic, Ivan	ABB d.o.o. Zagreb		
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Xidias, Elias	Univ. of the Aegean		
Aspragathos, Nikos	Univ. of Patras		
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Cotugno, Giuseppe	DIMES, Univ. of Calabria		
D'Alfonso, Luigi	Univ. della Calabria		
Lucia, Walter	Univ. della Calabria		
Muraca, Pietro	Univ. della Calabria		
Pugliese, Paolo	Univ. della Calabria		
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Vargas, Lucas Vares	COPPE/UFRJ/PEE		
Costa, Ramon R.	COPPE - Federal Univ. of Rio de Janeiro		
Leite, Antônio Candea	COPPE/UFRJ/PEE		
12:10-12:30	WeA1.6		
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Janssen, Mike	UMN		
Papanikolopoulos, Nikos	Univ. of Minnesota		
WeA2	Imperial 1		
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Chair: Zolotas, Argyrios	Univ. of Sussex		
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Boukhnifer, Moussa	ESTACA Paris		
Raisemche, Aziz	ESTACA Paris		
Diallo, Demba	Univ. Paris-Sud, LGEP		
10:50-11:10	WeA2.2		
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Parlangeli, Gianfranco	Univ. del Salento		
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Poderico, Mariana	Italian Aerospace Res. Centre		
Morani, Gianfranco	Italian Aerospace Res. Centre		
Ariola, Marco	Univ. degli Studi di Napoli Parthenope		
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Michail, Konstantinos	Cyprus Univ. of Tech.		
Zolotas, Argyrios	Univ. of Sussex		
Goodall, Roger	Loughborough Univ.		
11:50-12:10	WeA2.5		
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Rotondo, Damiano	UPC		
Nejjari, Fatiha	Univ. Pol. de Catalunya		
Puig, Vicenc	Univ. Pol. de Catalunya		
12:10-12:30	WeA2.6		
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Nebula, Francesco	Italian Aerospace Res. Centre (CIRA)		
Ariola, Marco	Univ. degli Studi di Napoli Parthenope		
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Chair: Adnan, Naseeb	Univ. of Alberta		
Ahmed			
10:30-10:50	WeA3.1		
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Aranovskiy, Stanislav	National Res. Univ. of Information Tech. Saint-		
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Vera, Davinia	Univ. de Zaragoza		
Paesa Garcia, David	Zaragoza Univ.		
Llorente Gil, Sergio	BSH Electrodomésticos España S.A.		
Sagues, Carlos	Univ. de zaragoza		
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Abdel-geliel, Mostafa	Arab Acad. for Science and Tech.		
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Almeida, Juliana	Faculdade de Engenharia - Univ. do Porto
Alonso, Hugo	Univ. of Oporto
Rocha, Paula	Univ. of Porto
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Schultze, Martin	Helmut-Schmidt-Univ. Hamburg
Horn, Joachim	Helmut-Schmidt-Univ. / Univ. of the Federal Armed Forc
12:10-12:30	WeA3.6
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Adnan, Naseeb Ahmed	Univ. of Alberta
Izadi, Iman	Univ. of Alberta
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Chair: Ippoliti, Gianluca	Univ. Pol. delle Marche
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Mercurio, Andrea	Univ. of Rome Sapienza
Di Giorgio, Alessandro	Univ. of Rome "La Sapienza"
Purificato, Fabio	Univ. of Rome "Sapienza"
10:50-11:10	WeA4.2
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Marouani, Khoudir	Ec. Militaire Pol. (EMP)
Guendouz, Hani	Pol. Military School (EMP)
Tabbache, Bekheira	Pol. Military School (EMP)
Khoucha, Farid	Pol. Military School (EMP)
Kheloui, Abdelaziz	Pol. Military School (EMP)
11:10-11:30	WeA4.3
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Konstantopoulos, George	Univ. of Patras
Alexandridis, Antonios	Univ. of Patras
11:30-11:50	WeA4.4
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Cimini, Gionata	Univ. Pol. delle Marche
Ippoliti, Gianluca	Univ. Pol. delle Marche
Orlando, Giuseppe	Univ. di Ancona
Pirro, Matteo	Univ. Pol. delle Marche
11:50-12:10	WeA4.5
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Moulahoum, Samir	Res. Lab. on electrical engineering and automatics LRE
Houassine, Hamza	Res. Lab. LREA, Univ. of Médéa
Kabache, Nadir	Res. Lab. LREA, Univ. of Médéa
12:10-12:30	WeA4.6
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Kiselychnyk, Oleh	Univ. of Warwick
Bodson, Marc	Univ. of Utah
Wang, Jihong	Univ. of Warwick

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Applications of Control in Aerospace (Invited Session)	
Chair: Tzes, Anthony	Univ. of Patras
Co-Chair: Theodoulis, Spilius	French-German Res. Inst. of Saint-Louis (ISL)
Organizer: Tzes, Anthony	Univ. of Patras
Organizer: Theodoulis, Spilius	French-German Res. Inst. of Saint-Louis (ISL)
10:30-10:50	WeA5.1
<i>Fixed Structure Robust Control Design for the 155mm Canard-Guided Projectile Roll-Channel Autopilot (I)</i> , pp. 155-160.	
Theodoulis, Spilius	French-German Res. Inst. of Saint-Louis (ISL)
Brunner, Thomas	French-German Res. Inst. of Saint-Louis (ISL) / Univ.
Gassmann, Vincent	French-German Res. Inst. of Saint-Louis
Wernert, Philippe	ISL
10:50-11:10	WeA5.2
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Marantos, Panos	National Tech. Univ. of Athens
Dritsas, Leonidas	Univ. of Patras
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
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Chaibet, Ahmed	ESTACA
Boukhnifer, Moussa	ESTACA Paris
11:30-11:50	WeA5.4
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Papachristos, Christos	Univ. of Patras
Tzes, Anthony	Univ. of Patras
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Alexis, Kostas	Eidgenössische Tech. Hochschule Zürich
Huerzeler, Christoph	ETH Zurich
Siegwart, Roland Y.	ETH Zürich
12:10-12:30	WeA5.6
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Drouot, Adrien	CRAN - Nancy Univ.
Zasadzinski, Michel	CRAN
Souley-Ali, Harouna	CRAN - Univ. de Lorraine
Richard, Edouard	Nancy Univ.
Boutayeb, M.	Lorraine Univ.
WeA6	Ariadne
Current Trends and Challenges in Closed Loop Anesthesia (Invited Session)	
Chair: Mendonça, Teresa	Univ. do Porto
Co-Chair: De Keyser, Robin M.C.	Univ. of Gent
Organizer: Mendonça, Teresa	Univ. do Porto

Organizer: De Keyser, Robin M.C.	Univ. of Gent	
10:30-10:50	WeA6.1	WeB1.2
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Soltesz, Kristian Dumont, Guy A. Ansermino, J Mark	Lund Univ. Univ. of British Columbia Department of Anesthesiology Pharmacology and Therapeutics, Univ.	Sredojev, Sonja Eaton, Ray
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Sievert, Alexander Bajorat, Joern Janda, Matthias Hofmockel, Rainer Simanski, Olaf	Control Application Center, Inst. of Automation, Univ. Univ. of Rostock Anaesthesiology and Intensive Care Univ. of Rostock Hochschule Wismar: Univ. of Applied Sciences: Tech. B	Martin de Hijas, Gundian Balsa-Canto, Eva Bang, Julio R. Kaleta, Christoph
11:10-11:30	WeA6.3	WeB1.4
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Nunes, Catarina S. Lobo, Francisco A Amorim, Pedro	Centro Hospitalar do Porto Centro Hospitalar do Porto, Serviço de Anestesiologia Hospital Geral de Santo António	Binetti, Giulio Abouheaf, Mohammed Lewis, Frank L. Naso, David Davoudi, Ali Turchiano, Biagio
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Chevalier, Amélie Copot, Dana Ionescu, Clara De Keyser, Robin M.C.	Ghent Univ. Ghent Univ. Ghent Univ. Univ. of Gent	Borges Nogueira, Marcelo Pereira, Fernando Lobo Sousa, Joao
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Caiado, Daniela Lemos, Joao M. Costa, B.Andrade Silva, Margarida M. Mendonça, Teresa	INESC-ID Inesc-id INESC-ID/IST/ TU Lisbon Univ. do Porto Univ. do Porto	Chair: Groumpos, Peter Co-Chair: Boutilis, Yiannis
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Nogueira, Filipa Mendonça, Teresa Rocha, Paula	Univ. do Porto Univ. do Porto Univ. of Porto	Karagiannis, Ioannis Groumpos, Peter
WeB1	IMPERIAL	
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Chair: Olaru, Sorin	Supelec	
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Nguyen, Hoai-Nam Olaru, Sorin Gutman, Per-Olof	Tech. Supelec Tech.	Gering, Stefan Schwung, Andreas Gußner, Thomas Adamy, Juergen
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Sofianos, Nikolaos Boutalis, Yiannis	Democritus Univ. of Thrace Democritus Univ. of Thrace	Ellis, Matthew Heidarnejad, Mohsen Christofides, Panagiotis D.	Univ. of California - Los Angeles Univ. of California - Los Angeles Univ. of California at Los Angeles
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Boutalis, Yiannis Christodoulou, Manolis A. Andreadis, Filippos	Democritus Univ. of Thrace Tech. Univ. of Crete Department of Electronic and Computer Engineering, Tech. Uni	Lao, Liangfeng Ellis, Matthew Christofides, Panagiotis D.	Univ. of California - Los Angeles Univ. of California - Los Angeles Univ. of California at Los Angeles
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Chair: Bogdan, Stjepan	Univ. of Zagreb	Sourkounis, Constantinos	Ruhr-Univ. Bochum
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Spanoudakis, Polychronis Tsourveloudis, Nikos	Tech. Univ. of Crete Tech. Univ. of Crete	Turcio, Wallace Yoneyama, Takashi Moreira, Fernando Jose	Embraer S.A. Inst. Tecnologico Aeronautica Embraer S.A.
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Vasiljevic, Goran Griparic, Karlo Bogdan, Stjepan	Univ. of Zagreb Univ. of Zagreb Univ. of Zagreb	Grieser, Jochen Bug, Daniel Lens, Dieter Klingbeil, Harald	TU Darmstadt KTH Stockholm TU Darmstadt TU Darmstadt, GSI Helmholtzzentrum für Schwerionenforschung GmbH
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Fergani, Soheib Lghani, Menhour	GIPSA-Lab. Control Systems Dept, Grenoble Univ. Mines ParisTech, Centre de Robotique, 60 boulevard Saint-Michel,	Chair: Vachtsevanos, George Co-Chair: Alexis, Kostas	Georgia Inst. of Tech. Eidgenössische Tech. Hochschule Zürich
Sename, Olivier Dugard, Luc D'Andrea-Novel, Brigitte	INPG CNRS-INPG Ec. des Mines de Paris	15:00-15:20	WeB5.1
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Doumiati, Moustapha Ghandour, Raymond Charara, Ali Victorino, Alessandro Lechner, Daniel	Univ. Bin Sultan Univ. UTC UMR CNRS 7253 Univ. Univ. de Tech. de Compiègne INRETS	15:20-15:40	WeB5.2
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<i>Vehicle Yaw Stability Control Using Rear Active Differential Via Sliding Mode Control Methods</i> , pp. 317-322.		Huerzeler, Christoph Alexis, Kostas Siegwart, Roland Y.	ETH Zurich Eidgenössische Tech. Hochschule Zürich ETH Zürich
Daniel, Rubin Arogeti, Shai	Ben Gurion Univ. Ben-Gurion Univ. of the Negev	15:40-16:00	WeB5.3
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Nonlinear Control I (Regular Session)		Papachristos, Christos Alexis, Kostas Tzes, Anthony	Univ. of Patras Eidgenössische Tech. Hochschule Zürich Univ. of Patras
Chair: Sourkounis, Constantinos	Ruhr-Univ. Bochum	16:00-16:20	WeB5.4
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Trajectory Control of Multirotor Helicopters with Thrust Vector Constraints, pp. 375-379.

Santos, Davi Antônio	Inst. Tecnológico de Aeronáutica
Saotome, Osamu	Inst. Tecnológico de Aeronáutica
Cela, Arben	Groupe ESIEE

16:20-16:40 WeB5.5

Guidance, Navigation, and Control of an Unmanned Hovercraft, pp. 380-387.

Kim, Kilsoo	Guidance, Navigation, and Control of an Unmanned Hovercraft
Lee, Young-Ki	Georgia Inst. of Tech.
Oh, Sehwan	School of Aerospace Engineering, Georgia Inst. of Tech.
Moroniti, David	School of Aerospace Engineering, Georgia Inst. of Tech.
Mavris, Dimitri	Georgia Inst. of Tech.
Vachtsevanos, George	Georgia Inst. of Tech.
Papamarkos, Nikos	Democritus Univ. of Thrace
Georgoulas, George	Dept. of Informatics and Communications Tech.

WeB6 Ariadne
Fault Diagnosis I (Regular Session)

Chair: Nikolakopoulos, George	Luleå Univ. of Tech. Sweden
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15:00-15:20 WeB6.1

Broken Rotor Bar Fault Detection Based on Uncertainty Ellipsoidal Intersection for Three Phase Induction Motors, pp. 388-393.

Mustafa, Mohammed Obaid	Luleå Univ. of Tech.
Nikolakopoulos, George	Luleå Univ. of Tech. Sweden
Gustafsson, Thomas	Luleå Univ. of Tech.

15:20-15:40 WeB6.2

Temporal/Spatial Model-Based Fault Diagnosis vs. Hidden Markov Models Change Detection Method: Application to the Barcelona Water Network, pp. 394-400.

Quevedo, Joseba	Tech. Univ. of Catalonia
Alippi, Cesare	Pol. di Milano
Cugueró, Miquel À.	Univ. Pol. de Catalunya
Ntalampiras, Stavros	Pol. di Milano
Puig, Vicenc	Univ. Pol. de Catalunya
Roveri, Manuel	Pol. di Milano
García Valverde, Diego	UPC

15:40-16:00 WeB6.3

Distributed Detection and Isolation of Sensor Faults in HVAC Systems, pp. 401-406.

Reppa, Vasso	Univ. of Cyprus
Papadopoulos, Panayiotis	KIOS Res. Center for Intelligent Systems and Networks
Polycarpou, Marios M.	Univ. of Cyprus
Panayiotou, Christos	Univ. of Cyprus

16:00-16:20 WeB6.4

On Robust Fault-Isolation Observers with Relaxed Structural Constraints, pp. 407-412.

Wahrburg, Arne	Tech. Univ. Darmstadt
Adamy, Juergen	Tech. Univ. Darmstadt

16:20-16:40 WeB6.5

Application of Multi-Model Fault Diagnosis for an Industrial System, pp. 413-418.

Abdel-geliel, Mostafa

Arab Acad. for Science and Tech.

WeC1

IMPERIAL

Robotics II (Regular Session)

Chair: Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens
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17:00-17:20 WeC1.1

Preliminary Results on the Estimation Performance of Single Range Source Localization, pp. 419-424.

Batista, Pedro	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
Oliveira, Paulo Jorge	Inst. Superior Técnico

17:20-17:40 WeC1.2

Precision Grasp Planning Based on Fast Marching Square, pp. 425-430.

Alvarez, David	Univ. Carlos III
Lumbier, Alejandro	Univ. Carlos III
Gomez, Javier V.	Univ. Carlos III
Garrido, Santiago	Univ. Carlos III de Madrid
Moreno, Luis	Univ. Carlos III

17:40-18:00 WeC1.3

Telemanipulation with the DLR/HIT II Robot Hand Using a Dataglove and a Low Cost Force Feedback Device, pp. 431-436.

Liarokapis, Minas	National Tech. Univ. of Athens
Artemiadis, Panagiotis	Arizona State Univ.
Kyriakopoulos, Kostas J.	National Tech. Univ. of Athens

18:00-18:20 WeC1.4

Experimental Evaluation of Energy Optimization Algorithm for Mobile Robots in Three-Dimension Motion Using Predictive Control, pp. 437-443.

Yacoub, Mostafa	Univ. of Ottawa
Necsulescu, Dan	Univ. of Ottawa
Sasiadek, Jurek Z	Carleton Univ.

18:20-18:40 WeC1.5

P3P and P2P Problems with Known Camera and Object Vertical Directions, pp. 444-451.

D'Alfonso, Luigi	Univ. della Calabria
Garone, Emanuele	Univ. degli Studi della Calabria
Muraca, Pietro	Univ. della Calabria
Pugliese, Paolo	Univ. della Calabria

WeC2

Imperial 1

Networked Systems (Regular Session)

Chair: Antsaklis, Panos J.	Univ. of Notre Dame
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17:00-17:20 WeC2.1

Model-Based Control of Continuous-Time Systems with Limited Intermittent Feedback, pp. 452-457.

Garcia, Eloy	Infoscitex Corp.
Antsaklis, Panos J.	Univ. of Notre Dame

17:20-17:40 WeC2.2

Internet Delays and Packet Losses Sensor/actuator for UDP Based Networked Control Systems, pp. 458-463.

Diaz-Cacho Medina, Miguel	Univ. of Vigo
Delgado, Emma	Univ. of Vigo
Barreiro, Antonio	Univ. of Vigo (spain)

17:40-18:00 WeC2.3

Packet-Based Dynamic Control of a Furuta Pendulum Over

Ethernet, pp. 464-470.

Fenucci, Davide	Univ. of Pisa
Fabbri, Tommaso	Univ. of Pisa
Falasca, Stefano	Univ. of Pisa
Gamba, Massimiliano	Univ. of Pisa
Bicchi, Antonio	Univ. di Pisa

18:00-18:20 WeC2.4

Fundamental Limits on Performance of Autocatalytic Pathways with Chain Topologies, pp. 471-476.

Siami, Milad	Lehigh Univ.
Motee, Nader	Lehigh Univ.

18:20-18:40 WeC2.5

Control Structure Design for Complex Energy Integrated Networks Using Graph-Theoretic Methods, pp. 477-482.

Heo, Seongmin	Univ. of Minnesota
Georgis, Dimitrios	Univ. of Minnesota
Daoutidis, Prodromos	Univ. of Minnesota

WeC3 Imperial 2
Aerospace and Automotive Control (Regular Session)

Chair: Koutsoukos, Xenofon Vanderbilt Univ.

17:00-17:20 WeC3.1

A Case Study on the Model-Based Design and Integration of Automotive Cyber-Physical Systems, pp. 483-492.

Shang, Di	Vanderbilt Univ.
Eyisi, Emeka	ISIS Vanderbilt Univ.
Zhang, Zhenkai	Vanderbilt Univ.
Koutsoukos, Xenofon	Vanderbilt Univ.
Porter, Joseph	Vanderbilt Univ.
Karsai, Gabor	Vanderbilt Univ.
Sztipanovits, Janos	Vanderbilt Univ.

17:20-17:40 WeC3.2

A LPV EMS Regulator for the Parallel HEV with Battery Life Prolongation, pp. 493-500.

Wang, Tinghong	Grenoble Inst. of Tech.
Sename, Olivier	INPG
Martinez, John-Jairo	Gipsa-Lab. INP-Grenoble

17:40-18:00 WeC3.3

Control of a Simulated Wing Structure with Multiple Segmented Control Surfaces, pp. 501-506.

Boussalis, Helen	California State Univ.
Valavanis, Kimon	Univ. of Denver
Guillaume, Darrell	SPACE Center, California State Univ. Los Angeles
Pena, Francisco	NASA Univ. Res. Center
Alvarenga, Jessica	Univ. of Denver

18:00-18:20 WeC3.4

Trajectory Tracking Control for a Quadrotor Helicopter Based on Backstepping Using a Decoupling Quaternion Parametrization, pp. 507-512.

De Monte, Paul	Tech. Univ. München
Lohmann, Boris	Tech. Univ. Muenchen

18:20-18:40 WeC3.5

GPS/INS Integration in a S&A Algorithm Based on Aircraft Performances Estimation, pp. 513-518.

Melega, Marco	Cranfield Univ.
Lazarus, Samuel Borthwick	Cranfield Univ.
Savvaris, Al	Cranfield Univ.
Tsourdos, Antonios	Cranfield Univ.

WeC4 Imperial 3

Nonlinear Control II (Regular Session)

Chair: Goodwine, Bill Univ. of Notre Dame

17:00-17:20 WeC4.1

In the Large Certainty Equivalence Control with Quaternion Measurements, pp. 519-524.

Schlanbusch, Rune	Narvik Univ. Coll.
Grøtli, Esten Ingar	Norwegian Univ. of Science and Tech.

17:20-17:40 WeC4.2

Stabilization in the Supremum Norm of Wave PDE/Nonlinear ODE Cascades, pp. 525-530.

Bekiaris-Liberis, Nikolaos	Univ. of California, San Diego
Krstic, Miroslav	Univ. of California at San Diego

17:40-18:00 WeC4.3

An Algorithm for Stopping a Class of Underactuated Nonlinear Mechanical Robotic Systems, pp. 531-536.

Goodwine, Bill	Univ. of Notre Dame
Nightingale, Jason	Univ. of Notre Dame

18:00-18:20 WeC4.4

Immersion of Nonlinear Systems through Power Geometry, pp. 537-544.

Menini, Laura	Univ. di Roma 'Tor Vergata'
Tornambe, Antonio	Univ. Di Roma Tor Vergata

18:20-18:40 WeC4.5

A Robust Nonlinear Semi-Active Control for Base Seismically-Isolated Structures, pp. 545-550.

Teodorescu, Catalin-Stefan	CEA Saclay
Diop, Sette	CNRS
Politopoulos, Ioannis	CEA Saclay
Benidir, Messaoud	L2S-Supelec-UPS-11

WeC5 Imperial 4

Education and Training (Regular Session)

Chair: Demetriou, Georgios Frederick Univ.

17:00-17:20 WeC5.1

Testing Controllers on ALE III: A Low Cost Mini Autonomous Underwater Vehicle, pp. 551-557.

Piperidis, Savas	Tech. Univ. of Crete
Tsourveloudis, Nikos	Tech. Univ. of Crete

17:20-17:40 WeC5.2

Microcontroller-Based Learning Kit Course Design Using Constructive Alignment Principles, pp. 558-566.

Dabroom, Ahmed	RC Coll. and Inst. Div. Yanbu
Refie, Wael Moustafa	RC Coll. and Inst. Div. Yanbu
Matmti, Ridha	YIC

17:40-18:00 WeC5.3

The Engino Robotics Platform (ERP) Controller for Education, pp. 567-572.

Demetriou, Georgios	Frederick Univ.
Lambrou, Antonis	Frederick Univ.
Eteokleous, Nikleia	Frederick Univ.
Sisamos, Costas	Engino.net

18:00-18:20 WeC5.4

Interactive Animations for Learning by Playing Concepts of Control Systems, pp. 573-577.

Ramírez-Ramírez, Mauricio	Univ. del Valle
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Ramirez, Jose Miguel Fernández-Samacá, Liliana	Univ. del Valle Univ. Pedagógica y Tecnológica de Colombia
18:20-18:40	WeC5.5
<i>Establishing Regional Competence Centre for Life Long Learning in Electrical Engineering</i> , pp. 578-583.	
Zabasta, Anatolijs Kunicina, Nadezhda Zhiravecka, Anastasija Patlins, Antons Ribickis, Leonids	Riga Tech. Univ. Riga Tech. Univ. Riga Tech. Univ. Riga Tech. Univ. Riga Tech. Univ.
WeC6	Ariadne
Fault Diagnosis II (Regular Session)	
Chair: Fourlas, George K.	TEI of LAMIA
17:00-17:20	WeC6.1
<i>Power Transformer Fault Diagnosis Using Fuzzy Logic Technique Based on Dissolved Gas Analysis</i> , pp. 584-589.	
Abdel-geliel, Mostafa Rashad Ahmed, Mahmud Khalil, Alaa Eldin Ahmed	Arab Acad. for Science and Tech. aast Arab Acad. for Science & Tech.
17:20-17:40	WeC6.2
<i>Stochastic Subspace Identification of Linear Systems with Observation Outliers</i> , pp. 590-596.	
ALMutawa, Jaafar	Informatics, Kyot Univ.
17:40-18:00	WeC6.3
<i>Theoretical Approach of Model Based Fault Diagnosis for a 4-Wheel Skid Steering Mobile Robot</i> , pp. 597-602.	
Fourlas, George K.	TEI of LAMIA
18:00-18:20	WeC6.4
<i>Performance Evaluation of Neural Network Based Approaches for Airspeed Sensor Failure Accommodation on a Small UAV</i> , pp. 603-608.	
Gururajan, Srikanth Fravolini, Mario Luca Chao, Haiyang Rhudy, Matthew Napolitano, Marcello	West Virginia Univ. Univ. of Perugia West Virginia Univ. West Virginia Univ. West Virginia Univ.
18:20-18:40	WeC6.5
<i>Online Observability Optimization for State Affine Systems with Output Injection and Observer Design</i> , pp. 609-614.	
Rubio Scola, Ignacio Eduardo Besancon, Gildas Georges, Didier	GIPSA-Lab. Ense3 - Grenoble INP Grenoble Inst. of Tech.

Technical Program for Thursday June 27, 2013

ThA1		IMPERIAL	
Hybrid Systems I (Regular Session)			
Chair: Grøtli, Esten Ingard	Norwegian Univ. of Science and Tech.		
10:30-10:50	ThA1.1	Diaz, Eric	Univ. of Southern California
<i>In the Large Hybrid Observer Design for Rigid Body with Quaternion Measurements</i> , pp. 615-621.		Balboa, Cheyenne	California State Univ. Los Angeles
Grøtli, Esten Ingard	Norwegian Univ. of Science and Tech.	Juan Escobar, Juan Escobar	California State Univ. Los Angeles
Schlanbusch, Rune	Narvik Univ. Coll.	Espano, Zarah Jane B.	California State Univ. Los Angeles
10:50-11:10	ThA1.2	Espano	California State Univ. Los Angeles
<i>Ultimate Boundedness Conditions for a Hybrid Model of Population Dynamics</i> , pp. 622-627.		Rad, Khosrow	California State Univ. Los Angeles
Aleksandrov, Alexander	Saint-Petersburg State Univ.	Boussalis, Helen	California State Univ.
Aleksandrova, Elena	Saint-Petersburg State Univ.		
Platonov, Alexey	Saint-Petersburg State Univ.		
11:10-11:30	ThA1.3		
<i>Stability Analysis of Nonlinear Mechanical Systems with Switched Force Fields</i> , pp. 628-633.			
Aleksandrov, Alexander	Saint-Petersburg State Univ.	Dòria-Cerezo, Arnau	Tech. Univ. of Catalonia (UPC)
Lakrisenko, Polina	Saint-Petersburg State Univ.	Bodson, Marc	Univ. of Utah
Platonov, Alexey	Saint-Petersburg State Univ.		
11:30-11:50	ThA1.4		
<i>Unknown Inputs Observer Applied to an Alternating Activated Sludge Process</i> , pp. 634-639.		Cuoghi, Stefania	Univ. of Modena and Reggio Emilia
Manâa, Imen	National Engineering School of Monastir, Department of Electrical E	Ntogramatzidis, Lorenzo	Curtin Univ.
M'Sahli, Faouzi	Monastir Engineering School		
11:50-12:10	ThA1.5		
<i>Intersection-Based Piecewise Affine Approximation of Nonlinear Systems</i> , pp. 640-645.			
Zavieh, Amin	Concordia Univ.	Tzakis, Panagiotis	Alexander Tech. Educational Inst. of Thessaloniki
Rodrigues, Luis	Concordia Univ.	Antoniou, Efstathios	Alexander Tech. Educational Inst. of Thessaloniki
12:10-12:30	ThA1.6	Vologiannidis, Stavros	Aristotle Univ. of Thessaloniki
<i>Modelling and Frequency Separation Energy Management of Fuel Cell-Battery Hybrid Sources System for Hybrid Electric Vehicle</i> , pp. 646-651.			
Alloui, Hamza	Ec. Militaire Pol.		
Becherif, Mohamed	Femto-ST/FCLab UTBM UMR CNRS 6174		
Marouani, Khoudir	Ec. Militaire Pol. (EMP)		
ThA2		Imperial 1	
Linear Systems I (Regular Session)			
Chair: Galeani, Sergio	Univ. Di Roma Tor Vergata		
10:30-10:50	ThA2.1		
<i>Stability of Discrete Descriptor Time Delay Systems on Finite Time Interval: New Delay Dependent Conditions</i> , pp. 652-657.			
Debeljkovic, Dragutin	Univ. of Belgrade, School of mechanical Engineering	Portelo, Ana I.	INESC-ID
Stojanovic, Sreten	Univ. of Nis, Faculty of Tech.	Lemos, Joao M.	Inesc-id
Jovanovic, Aleksandra	Faculty of Mechanical Engineering Belgrade	Vinga, Susana	INESC-ID
Misic, Milan	Univ. of Pristina, School of Tech. Science, Kosovska Mi	Ribeiro, Ruy M.	Los Alamos National Lab.
10:50-11:10	ThA2.2	Cruz, João Paulo	Univ. of Lisbon, Res. Inst. for Medicines and Pharm
<i>Design of an Innovative Prosthetic Hand with Compact Shape Memory Alloy Actuators</i> , pp. 697-702.		Valadas, Emilia	Faculty of Medicine, Univ. of Lisbon
Andrianesis, Konstantinos			
Tzes, Anthony			
11:10-11:30	ThA3.3		
<i>Quantification of the Multiplicative Uncertainty in the Linearized Minimally Parameterized Parsimonious Wiener Model for the Neuromuscular Blockade in Closed-Loop Anesthesia</i> , pp. 703-708.			
ThA3		Imperial 2	
Biomedical Engineering (Regular Session)			
Chair: Tzes, Anthony	Univ. of Patras		
10:30-10:50	ThA3.1		
<i>Parameter Estimation and Identifiability of a HIV-1 Model</i> , pp. 691-696.			
Portelo, Ana I.			
Lemos, Joao M.			
Vinga, Susana			
Ribeiro, Ruy M.			
Cruz, João Paulo			
Valadas, Emilia			
10:50-11:10	ThA3.2		
<i>Design of an Innovative Prosthetic Hand with Compact Shape Memory Alloy Actuators</i> , pp. 697-702.			
Andrianesis, Konstantinos			
Tzes, Anthony			
11:10-11:30	ThA3.3		
<i>Quantification of the Multiplicative Uncertainty in the Linearized Minimally Parameterized Parsimonious Wiener Model for the Neuromuscular Blockade in Closed-Loop Anesthesia</i> , pp. 703-708.			

Silva, Margarida M.	Univ. do Porto
Wigren, Torbjorn	Uppsala Univ.
Medvedev, Alexander V.	Uppsala Univ.
Mendonça, Teresa	Univ. do Porto
11:30-11:50	ThA3.4
<i>NonLinear Hebbian Learning Techniques and Fuzzy Cognitive Maps in Modeling the Parkinson's Disease</i> , pp. 709-715.	
Anninou, Antigoni	Univ. of Patras
Groumpas, Peter	Univ. of Patras
11:50-12:10	ThA3.5
<i>EMG Based Classification of Basic Hand Movements Based on Time-Frequency Features</i> , pp. 716-722.	
Sapsanis, Christos	Univ. of Patras, Electrical & Computer Engineering Departme
Georgoulas, George	Dept. of Informatics and Communications Tech.
Tzes, Anthony	Univ. of Patras
12:10-12:30	ThA3.6
<i>Self-Calibrating Total-Mass Controller for the Neuromuscular Blockade Matching the Anesthesiologists' Mindset (I)</i> , pp. 723-728.	
Paz, Luis	Univ. of Porto
Silva, Margarida M.	Univ. do Porto
Esteves, Simao	Hospital Geral Santo Antonio
Mendonça, Teresa	Univ. do Porto

ThA4	Imperial 3
Manufacturing Systems (Regular Session)	
Chair: Nikolakopoulos, George	Luleå Univ. of Tech. Sweden
Co-Chair: Ioannidis, Stratos	Department of Production Engineering & Management, Tech. Univ. of Crete
10:30-10:50	ThA4.1
<i>Non-Linear Control of Pneumatic Artificial Muscles</i> , pp. 729-734.	
Andrikopoulos, George	Univ. of Patras, Greece
Nikolakopoulos, George	Luleå Univ. of Tech. Sweden
Manesis, Stamatis	Univ. of Patras
10:50-11:10	ThA4.2
<i>Distributed Model Based Thermal Control for Optimal Curing of the Large Composite Structures</i> , pp. 735-740.	
Shevtsov, Sergey	South Center of Russian Acad. of Science
Zhilyaev, Igor	South Center of Russian Acad.
Flek, Michail	Rostvertol Helicopters
Chinchan, Levon	Rostvertol Helicopters
Shevtsova, Varvara	Rostvertol Helicopters
11:10-11:30	ThA4.3
<i>A Min-Max ANT Colony Algorithm for Machine Loop Layout Problem</i> , pp. 741-747.	
Manita, Ghait	MARS
Korbaa, Ouajdi	Unité MARS, ISITCom, Univ. of Sousse
11:30-11:50	ThA4.4
<i>OntoMoPS: A Modular Production System Description Ontology</i> , pp. 748-753.	
Tsinarakis, George	Tech. Univ. of Crete
Tsinaraki, Chrisa	TUC/MUSIC

11:50-12:10	ThA4.5
<i>Inventory and Order Admission Control in Manufacturing Systems with Two Customer Classes and Setup Times</i> , pp. 754-760.	
Ioannidis, Stratos	Department of Production Engineering & Management, Tech. Uni
Sarantis, Ioannis	Tech. Univ. of Crete
12:10-12:30	ThA4.6
<i>Analysis of Control Strategies for Systems with Input-Induced Nonlinearities</i> , pp. 761-769.	
Cochior, Carmen	Eindhoven Univ. of Tech.
van den Bosch, P. P. J.	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.
ThA5	Imperial 4
Linear Multivariable Systems I (Invited Session)	
Chair: Karampetakis, Nikos	Aristotle Univ. of Thessaloniki
Co-Chair: Antsaklis, Panos J.	Univ. of Notre Dame
Organizer: Karampetakis, Nikos	Aristotle Univ. of Thessaloniki
Organizer: Antsaklis, Panos J.	Univ. of Notre Dame
10:30-10:50	ThA5.1
<i>Distributed Cooperative Control of Nonlinear and Non-Identical Multi-Agent Systems (I)</i> , pp. 770-775.	
Bidram, Ali	The Univ. of Texas at Arlington
Lewis, Frank L.	Univ. of Texas at Arlington
Davoudi, Ali	Univ. of Texas, Arlington
Guerrero, Josep	Aalborg Univ.
10:50-11:10	ThA5.2
<i>Parameterization of All Controllers That Stabilize a Given Plant (I)</i> , pp. 776-781.	
Kucera, Vladimir	Czech Tech. Univ. in Prague
11:10-11:30	ThA5.3
<i>The Role of 2D Linear Systems Theory in the Design and Experimental Verification of Iterative Learning Control Algorithms (I)</i> , pp. 782-787.	
Galkowski, Krzysztof	Univ. of Zielona Gora
Rogers, Eric	Univ. of Southampton
11:30-11:50	ThA5.4
<i>Properties and Classification of Generalized Resultants and Polynomial Combinants (I)</i> , pp. 788-793.	
Karcanias, Nicos	City Univ.
11:50-12:10	ThA5.5
<i>Notions of Equivalence for Linear Multivariable Systems (I)</i> , pp. 794-800.	
Vardulakis, Antonis	Aristotle Univ. of Thessaloniki
Karampetakis, Nikos	Aristotle Univ. of Thessaloniki
Antoniou, Efstathios	Alexander Tech. Educational Inst. of Thessaloniki
Vologiannidis, Stavros	Aristotle Univ. of Thessaloniki
12:10-12:30	ThA5.6
<i>Regions of Attraction and Recursive Feasibility in Robust MPC (I)</i> , pp. 801-806.	
Fleming, James	Univ. of Oxford
Kouvaritakis, Basil	Oxford Univ.
Cannon, Mark	Univ. of Oxford
ThA6	Ariadne

Invariant Sets in Control Applications (Invited Session)			
Chair: Athanasopoulos, Nikolaos	Eindhoven Univ. of Tech.	Conte, Giuseppe	Univ. delle Marche
Co-Chair: Lazar, Mircea	Eindhoven Univ. of Tech.	Perdon, Anna Maria	Univ. Pol. delle Marche
Organizer: Athanasopoulos, Nikolaos	Eindhoven Univ. of Tech.	Zattoni, Elena	Alma Mater Studiorum - Univ. of Bologna
Organizer: Lazar, Mircea	Eindhoven Univ. of Tech.		
10:30-10:50	ThA6.1	15:20-15:40	ThB1.2
<i>Fault Detection and Isolation Based on the Combination of a Bank of Interval Observers and Invariant Sets (I)</i> , pp. 807-813.		<i>A Case Study for Hybrid Regulation: Output Tracking for a Spinning and Bouncing Disk</i> , pp. 858-867.	
Xu, Feng	Tech. Univ. of Catalonia	Carnevale, Daniele	Univ. of Rome
Stoican, Florin	Pol. Univ. of Bucharest (UPB)	Galeani, Sergio	Univ. Di Roma Tor Vergata
Puig, Vicenc	Univ. Pol. de Catalunya	Menini, Laura	Univ. di Roma 'Tor Vergata'
Ocampo-Martinez, Carlos	Tech. Univ. of Catalonia (UPC)		
Olaru, Sorin	Supelec		
10:50-11:10	ThA6.2	15:40-16:00	ThB1.3
<i>Constrained Switching Stabilization of a Dc-Dc Boost Converter Using Piecewise-Linear Lyapunov Functions (I)</i> , pp. 814-823.		<i>On Semiclassical Solutions of Hybrid Regulator Equations</i> , pp. 868-876.	
Yfoulis, Christos	Alexander Tech. Inst.	Carnevale, Daniele	Univ. of Rome
Giaouris, Damian	Centre for Res. and Tech. Hellas	Galeani, Sergio	Univ. Di Roma Tor Vergata
Voutetakis, Spyridon	Centre for Res. and Tech. Hellas (CERTH)	Sassano, Mario	Univ. of Rome, Tor Vergata
Papadopoulou, Simira	Alexander Tech. Educational Inst.		
11:10-11:30	ThA6.3	16:00-16:20	ThB1.4
<i>Further Results on the Linear Constrained Regulation Problem (I)</i> , pp. 824-830.		<i>State Feedback Switched Control of Discrete-Time Switched Linear Systems with Application to Networked Control</i> , pp. 877-883.	
Bitsoris, Georges	Univ. of Patras	Deaecto, Grace S.	UNIFESP
Olaru, Sorin	Supelec	Souza, Matheus	FEEC - Unicamp
11:30-11:50	ThA6.4	Geromel, Jose C.	UNICAMP
<i>On Constrained Stabilization of Discrete-time Linear Systems (I)</i> , pp. 831-839.		16:20-16:40	ThB1.5
Athanasopoulos, Nikolaos	Eindhoven Univ. of Tech.	Hartmann, Andras	INESC-ID
Doban, Alina Ionela	Tech. Univ. of Eindhoven	Vinga, Susana	INESC-ID
Lazar, Mircea	Eindhoven Univ. of Tech.	Lemos, Joao M.	Inesc-id
11:50-12:10	ThA6.5		
<i>Further Results on Merging Control Lyapunov Functions for Linear Differential Inclusions (I)</i> , pp. 840-845.			
Grammatico, Sergio	ETH Zurich		
Blanchini, Franco	Univ. degli Studi di Udine		
Caiti, Andrea	Univ. of Pisa		
12:10-12:30	ThA6.6		
<i>Invariant Sets and Guaranteed Cost Control of Nonlinear Quadratic Systems (I)</i> , pp. 846-851.			
Amato, Francesco	Univ. degli Studi Magna Graecia di Catanzaro		
Colacicco, Domenico	Univ. degli Studi Magna Graecia di Catanzaro		
Cosentino, Carlo	Univ. degli Studi Magna Graecia di Catanzaro		
Merola, Alessio	Univ. degli Studi Magna Graecia di Catanzaro		
ThB2		Imperial 1	
Linear Systems II (Regular Session)			
Chair: Koumboulis, Fotios		Halkis Inst. of Tech.	
15:00-15:20		ThB2.1	
<i>I/O Decoupling with Simultaneous Disturbance Rejection of General Neutral Time Delay Systems Via a Measurement Output Feedback Dynamic Controller</i> , pp. 890-895.			
Koumboulis, Fotios		Halkis Inst. of Tech.	
Kouvakas, Nikolaos		Halkis Inst. of Tech.	
15:20-15:40		ThB2.2	
<i>Relations between Denominator Assigning Proper Feedback Compensators and Pole Assignment by State Feedback</i> , pp. 896-902.			
Vardulakis, Antonis		Aristotle Univ. of Thessaloniki	
Kazantzidou, Christina		Aristotle Univ. of Thessaloniki	
15:40-16:00		ThB2.3	
<i>Deformations for Linear Control Systems in Polynomial Matrix Form</i> , pp. 903-909.			
Menini, Laura		Univ. di Roma 'Tor Vergata'	
Tornambe, Antonio		Univ. Di Roma Tor Vergata	
16:00-16:20		ThB2.4	
<i>A Two-Step Procedure for Optimal Constrained Stabilization of Linear Continuous-Time Systems</i> , pp. 910-915.			
Shafai, Bahram		Northeastern Univ.	
Ghadami, Rasoul		Northeastern Univ.	
16:20-16:40		ThB2.5	
<i>Delayless Dynamic Controllers for Disturbance Rejection</i>			
ThB1	IMPERIAL		
Hybrid Systems II (Regular Session)			
Chair: Conte, Giuseppe	Univ. delle Marche		
15:00-15:20	ThB1.1		
<i>A Geometric Approach to Output Regulation for Discrete-Time Switched Linear Systems</i> , pp. 852-857.			

<i>of General Neutral Time Delay Systems</i> , pp. 916-921.			
Koumboulis, Fotios	Halkis Inst. of Tech.		Democritus Univ. of Thrace
Kouvakas, Nikolaos	Halkis Inst. of Tech.	INRIA Rhone Alpes	
Skarpelis, Michael	Halkis Institute of Tech.	Democritus Univ. of Thrace and CERTH, Greece	
ThB3	Imperial 2		
Wireless Networks (Regular Session)			
Chair: Rutherford, Matthew	Univ. of Denver		
15:00-15:20	ThB3.1		
<i>Distributed Scheduling of Wireless Networks: A Message Passing Approach</i> , pp. 922-929.			
Paschalidis, Ioannis	Boston Univ.	Oh, Hyondong	Univ. of Surrey
Huang, Fuzhuo	Boston Univ.	Kim, Seungkeun	Chungnam National Univ.
Lai, Wei	Columbia Management	Shin, Hyo-Sang	Cranfield Univ.
15:20-15:40	ThB3.2	Tsourdos, Antonios	Cranfield Univ.
<i>A Distributed Multi-Path Algorithm for Wireless Ad-Hoc Networks Based on Wardrop Routing</i> , pp. 930-935.		White, Brian A.	Cranfield Univ.
Oddi, Guido	Univ. of Rome "Sapienza"		
Pietrabissa, Antonio	Consorzio per la Ricerca nell'Automatica e nelle Telecomunicazio		
15:40-16:00	ThB3.3		
<i>A Characterization of the Relative Positioning of Mobile Agents for Full Sensorial Coverage in an Augmented Space with Obstacles</i> , pp. 936-941.			
Strutu, Mircea-Ionel	Pol. Univ. Bucharest	Sabattini, Lorenzo	Univ. of Modena and Reggio Emilia
Stoican, Florin	Pol. Univ. of Bucharest (UPB)	Secchi, Cristian	Univ. of Modena
Prodan, Ionela	SUPELEC	Chopra, Nikhil	Univ. of Illinois
Popescu, Dan	Univ. Pol. of Bucharest		
Olaru, Sorin	Supelec		
16:00-16:20	ThB3.4		
<i>A Practical and Functional Approach to Wireless PID Control</i> , pp. 942-947.			
Friman, Mats	Metso	Regula, Gergely	Inst. for Computer Science and Control, Hungarian Acad. of
Nikunen, Joonas	Metso	Lantos, Béla	Budapest Univ. of Tech. and Ec.
16:20-16:40	ThB3.5		
<i>Coordination-Free Deterministic Communication for Embedded System Using the BBC Encoding</i> , pp. 948-955.			
Martins, Goncalo	Univ. of Denver		
Barata, Manuel	Inst. Superior de Engenharia de Lisboa (ISEL)		
Rutherford, Matthew	Univ. of Denver		
Valavanis, Kimon	Univ. of Denver		
ThB4	Imperial 3		
Robot Swarms (Regular Session)			
Chair: Tsourdos, Antonios	Cranfield Univ.		
Co-Chair: Doitsidis, Lefteris	Tech. Educational Inst. of Crete		
15:00-15:20	ThB4.1		
<i>Distributed Coverage of Mobile Heterogeneous Networks in Non--Convex Environments</i> , pp. 956-962.			
Thanou, Michalis	Univ. of Patras	Bonilla, Moises E.	CINVESTAV-IPN
Stergiopoulos, Yiannis	Univ. of Patras	Malabre, Michel	IRCCyN - CNRS
Tzes, Anthony	Univ. of Patras	Martinez Garcia, Juan Carlos	CINVESTAV-IPN
15:20-15:40	ThB4.2		
<i>Distributed Multi-Robot Coverage Using Micro Aerial Vehicles</i> , pp. 963-968.			
Renzaglia, Alessandro	Univ. of Minnesota		
Doitsidis, Lefteris	Tech. Educational Inst. of Crete		
ThB5	Imperial 4		
Linear Multivariable Systems II (Invited Session)			
Chair: Karampetakis, Nikos	Aristotle Univ. of Thessaloniki		
Organizer: Karampetakis, Nikos	Aristotle Univ. of Thessaloniki		
Organizer: Antsaklis, Panos J.	Univ. of Notre Dame		
15:00-15:20	ThB5.1		
<i>Adaptive Suppression of Periodic Disturbances in MIMO Linear Systems (I)</i> , pp. 994-1001.			
Jafari, Saeid	Univ. of Southern California		
Ioannou, Petros A.	Univ. of Southern California		
15:20-15:40	ThB5.2		
<i>Distribution of Invariant Indices and Static Output Feedback Pole Placement (I)</i> , pp. 1002-1007.			
Yannakoudakis, Aristotle	TEI of CRETE		
15:40-16:00	ThB5.3		
<i>The Spectrum of Dynamical Systems Possessing Non Convex Positively Invariant Sets (I)</i> , pp. 1008-1013.			
Bitsoris, Georges	Univ. of Patras		
ThB6	Ariadne		
Distributed Systems I (Regular Session)			

Chair: Casavola, Alessandro Co-Chair: Demetriou, Michael A.	Univ. Della Calabria Worcester Pol. Inst.	Amato, Francesco Colacino, Domenico Cosentino, Carlo Merola, Alessio	Univ. degli Studi Magna Graecia di Catanzaro Univ. degli Studi Magna Graecia di Catanzaro Univ. degli Studi Magna Graecia di Catanzaro Univ. degli Studi Magna Graecia di Catanzaro
15:00-15:20	ThB6.1		
<i>A Controls-CFD Approach for Estimation of Concentration from a Moving Aerial Source: Comparisons between Switched and Dynamically Adapted Grids in 2D</i> , pp. 1029-1034.			
Gatsonis, Nikolaos A. Demetriou, Michael A. Egorova, Tatiana	Worcester Pol. Inst. Worcester Pol. Inst. Worcester Pol. Inst.		
15:20-15:40	ThB6.2		
<i>Boundary Moving Horizon Estimator for Approximate Models of Parabolic PDEs</i> , pp. 1035-1041.			
Dubljevic, Stevan Yang, Yu	Univ. of Alberta Univ. of Alberta		
15:40-16:00	ThB6.3		
<i>Discrete-Time Infinite-Dimensional Adaptive Control and Rejection of Persistent Disturbances: To D or Not to D?</i> , pp. 1042-1049.			
Balas, Mark Frost, Susan	Univ. of Wyoming NASA Ames Res. Center		
16:00-16:20	ThB6.4		
<i>A Numerical Test of Positiveness on the Unit Circle Based on the Fast Fourier Transform</i> , pp. 1050-1054.			
Augusta, Petr	Czech Acad. of Sciences		
16:20-16:40	ThB6.5		
<i>Distributed Parallel Coordination-By-Constraint Strategies in Networked Multi-Area Power Systems</i> , pp. 1055-1062.			
Tedesco, Francesco Casavola, Alessandro	Univ. della Calabria Univ. Della Calabria		
ThC1	IMPERIAL		
Robust Control I (Regular Session)			
Chair: Bobtsov, Alexey	Saint Petersburg National Res. Univ. of Information Tech. Mechanics and Optics		
17:00-17:20	ThC1.1		
<i>Output Controller for Nonlinear and MIMO Systems with Delay</i> , pp. 1063-1068.			
Pyrkin, Anton Bobtsov, Alexey Kolyubin, Sergey	SPbNRU ITMO, NTNU Saint Petersburg National Res. Univ. of Information Tech. Saint Petersburg National Res. Univ. of Information Tec		
17:20-17:40	ThC1.2		
<i>Robust Control of Pneumatic Clutch Actuators Using Simulated Annealing Techniques</i> , pp. 1069-1075.			
Skarpetis, Michael Koumboulis, Fotios Ntallis, Achilleas	Halkis Institute of Tech. Halkis Inst. of Tech. Halkis Inst. of Tech.		
17:40-18:00	ThC1.3		
<i>Simultaneous Stabilization of a Segment of Systems by a Parameterized Compensator</i> , pp. 1076-1081.			
Meddeb, Houda Fonte, Christophe Zasadzinski, Michel	Univ. de Lorraine CNRS CRAN		
18:00-18:20	ThC1.4		
<i>Robust Control of Quadratic Systems with Norm Bounded Uncertainties</i> , pp. 1082-1086.			
ThC2	Imperial 1		
Modelling and Simulation II (Regular Session)			
Chair: Stavrou, Demetris	Univ. of Cyprus		
17:00-17:20	ThC2.1		
<i>Performance-Model Abstraction in a Synthesis-Centric Model-Driven Systems Engineering Framework</i> , pp. 1092-1097.			
Markovski, Jasen Reniers, Michel	Eindhoven Univ. of Tech. TU/e		
17:20-17:40	ThC2.2		
<i>Structural Health Monitoring Application of Errors-In-Variables Identification</i> , pp. 1098-1103.			
Guidorzi, Roberto Diversi, Roberto	Univ. of Bologna Univ. of Bologna		
17:40-18:00	ThC2.3		
<i>FPGA Implementation of the V-Disparity Based Obstacles Detection Approach</i> , pp. 1104-1111.			
Irki, Zohir Devy, Michel	Ec. Militaire Pol. LAAS		
18:00-18:20	ThC2.4		
<i>Nonlinear Set-Membership Identification: Bayesian Approach vs Subpavings Approach</i> , pp. 1112-1118.			
Fernandez, Rosa M. Tornil-Sin, Sebastian Blesa, Joaquim Puig, Vicenc	UPC Univ. Pol. de Catalunya (UPC) Univ. Pol. de Catalunya (UPC) Univ. Pol. de Catalunya		
18:20-18:40	ThC2.5		
<i>A Path Correction Module for Two-Wheeled Service Robots under Actuator Faults</i> , pp. 1119-1126.			
Stavrou, Demetris Eliades, Demetrios Panayiotou, Christos Polycarpou, Marios M.	Univ. of Cyprus Univ. of Cyprus Univ. of Cyprus Univ. of Cyprus		
ThC3	Imperial 2		
Intelligent Control Systems (Regular Session)			
Chair: Ioannou, Petros A.	Univ. of Southern California		
17:00-17:20	ThC3.1		
<i>AI-Based Low Computational Power Actuator/Sensor Fault Detection Applied on a MAGLEV Suspension</i> , pp. 1127-1132.			
Michail, Konstantinos Deliparaschos, Kyriakos Tzafestas, Spyros	Cyprus Univ. of Tech. NTUA National Tech. Univ. of Athens		

Zolotas, Argyrios	Univ. of Sussex	CERTH, Greece
17:20-17:40	ThC3.2	ThC4.5
<i>Constrained State-Feedback Control of an Externally Excited Synchronous Machine (I)</i> , pp. 1133-1140.		
Carpicu, Sabin - Constantin	Tech. Univ. "Gheorghe Asachi" of Iasi	Iowa State Univ.
Lazar, Mircea	Eindhoven Univ. of Tech.	Iowa State Univ.
17:40-18:00	ThC3.3	Iowa State Univ.
<i>Reachability Analysis for Managing Platoons at Intersections</i> , pp. 1141-1147.		
Ben Makhoul, Ibtissem	RWTH Aachen	Imperial 4
Diab, Hilal	Software for Embedded Systems	Signal Processing (Regular Session)
Kowalewski, Stefan	RWTH Aachen Univ.	Chair: Zingaretti, Primo
18:00-18:20	ThC3.4	Univ. Pol. delle Marche
<i>Grammatical Evolution and Network Operator Methods for Control System Synthesis</i> , pp. 1148-1155.		ThC5.1
Diveev, Askhat	Inst. of Russian Acad. of Sci.	<i>Design and Test of a Precise Mobile GPS Tracker</i> , pp. 1199-1207.
Kazaryan, David	People's Friendship Univ. of Russia	Luchetti, Gioele
Sofronova, Elena	Peoples' Friendship Univ. of Russia	Servici, Giuseppe
18:20-18:40	ThC3.5	Frontoni, Emanuele
<i>Intelligent Parking Assist</i> , pp. 1156-1161.		Mancini, Adriano
Rajabioun, Tooraj	Univ. of Southern California	Zingaretti, Primo
Foster, Brandon	Univ. of Southern California	
Ioannou, Petros A.	Univ. of Southern California	
17:00-17:20	ThC4.1	ThC5.2
ThC4	Imperial 3	<i>Realizing System Poles Identification on the Unit Disc Based on Laguerre Representations and Hyperbolic Metrics</i> , pp. 1208-1213.
Unmanned Systems II (Regular Session)		Soumelidis, Alexandros
Chair: Kosmatopoulos, Elias	Democritus Univ. of Thrace and CERTH, Greece	Comp. and Automation Res. Inst.
17:20-17:40	ThC4.2	Bokor, Jozsef
<i>Mobile Robots Formation: Graph-Force Approach</i> , pp. 1162-1167.		Hungarian Acad. of Sciences
Bazoula, Abdelouahab	Ec. militaire Pol.	Schipp, Ferenc
Nemra, Abdelkrim	EMP	Eotvos Lorand Univ. of Budapest
17:40-18:00	ThC4.3	
<i>Fast Underwater Vehicle Manipulator System Motion Planning in GPUs</i> , pp. 1168-1173.		ThC5.3
Sotiropoulos, Panagiotis	Univ. of Patras	<i>Cramer-Rao Lower Bound for Parameters of Random Processes in Navigation Data Processing</i> , pp. 1214-1221.
Kolonias, Vasileios	Univ. of Patras	Stepanov, Oleg A.
Aspragathos, Nikos	Univ. of Patras	Central Scientific Res. Inst. Elektropribor
Housos, Efthymios	Univ. of Patras	Vasiliev, Vladimir
18:00-18:20	ThC4.4	Concern CSRI Elektropribor
<i>Control of Quadrotor Aerial Vehicles Equipped with a Robotic Arm</i> , pp. 1174-1180.		Dolnakova, Alexandra
Arleo, Giuseppe	Univ. degli Studi della Basilicata	ThC5.4
Caccavale, Fabrizio	Univ. degli Studi della Basilicata	<i>GPS Based Attitude Determination Using Embedded Magnetometer Calibration</i> , pp. 1222-1229.
Muscio, Giuseppe	Univ. degli Studi della Basilicata	Kis, Laszlo
Pierrini, Francesco	Univ. degli Studi della Basilicata	Lantos, Béla
18:20-18:40	ThC4.5	Budapest Univ. of Tech. and Ec.
<i>Autonomous Navigation of Teams of Unmanned Aerial or Underwater Vehicles for Exploration of Unknown Static Dynamic Environments</i> , pp. 1181-1188.		Budapest Univ. of Tech. and Ec.
Kapoutsis, Athanasios	Democritus Univ. of Thrace	ThC5.5
Chatzichristofis, Savvas	Democritus Univ. of Thrace	Pahlajani, Chetan
Doitsidis, Lefteris	Tech. Educational Inst. of Crete	Poulakakis, Ioannis
Sousa, Joao	Univ. do Porto - Faculdade Engenharia	Tanner, Herbert G.
Kosmatopoulos, Elias	Democritus Univ. of Thrace and	Univ. of Delaware
17:00-17:20	ThC6.1	Univ. of Delaware
ThC6	Ariadne	Univ. of Delaware
Robotics III (Regular Session)		Univ. of Delaware
Chair: Batista, Pedro	Inst. Superior Técnico	
Co-Chair: Moustris, George	National Tech. Univ. of Athens	
17:20-17:40	ThC6.2	
<i>Towards Time-Optimal Exploration and Control by an Autonomous Robot</i> , pp. 1236-1241.		<i>A Received Signal Strength Indication-Based Localization System</i> , pp. 1242-1247.
Nenchev, Vladislav	TU Berlin	
Raisch, Joerg	Tech. Univ. Berlin	

Lourenço, Pedro	Inst. for Systems and Robotics / Inst. Superior Técnico
Batista, Pedro	Inst. Superior Técnico
Oliveira, Paulo Jorge	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
Chen, C. L. Philip	Univ. of Macau

17:40-18:00 ThC6.3

GES Source Localization Based on Discrete-Time Position and Single Range Measurements, pp. 1248-1253.

Batista, Pedro	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
Oliveira, Paulo Jorge	Inst. Superior Técnico

18:00-18:20 ThC6.4

Enhancing Surgical Accuracy Using Virtual Fixtures and Motion Compensation in Robotic Beating Heart Surgery, pp. 1254-1260.

Moustris, George	National Tech. Univ. of Athens
Mantelos, Andreas Ioannis	National Tech. Univ. of Athens
Tzafestas, Costas	National Tech. Univ. of Athens

18:20-18:40 ThC6.5

Closed-Form Solution for Absolute Scale Velocity Estimation Using Visual and Inertial Data with a Sliding Least-Squares Estimation, pp. 1261-1266.

Lippiello, Vincenzo	Univ. di Napoli Federico II
Rafik, Mebarki	Univ. di Napoli Federico II

Technical Program for Friday June 28, 2013

FrA1	IMPERIAL
Autonomous Marine Vehicles (Invited Session)	
Chair: Vukic, Zoran	Univ. of zagreb, Faculty of Electrical EngineeringandComputing
Co-Chair: Zereik, Enrica	National Res. Council
Organizer: Bibuli, Marco	CNR - ISSIA
Organizer: Zereik, Enrica	National Res. Council
Organizer: Miskovic, Nikola	Lab. for Underwater Systems and Tech. Facultyof Electrical Engin
10:30-10:50	FrA1.1
<i>A Real-Time Mosaicking Algorithm Using Binary Features for ROVs (I)</i> , pp. 1267-1273.	
Ferreira, Fausto	CNR - IEIIT
Veruggio, Gianmarco	CNR
Caccia, Massimo	CNR - ISSIA
Zereik, Enrica	National Res. Council
Bruzzone, Gabriele	CNR - ISSIA
10:50-11:10	FrA1.2
<i>Cooperative Path-Following in a Moving Path Reference Framework for Autonomous Marine Vehicles (I)</i> , pp. 1274-1279.	
Zereik, Enrica	National Res. Council
Bibuli, Marco	CNR - ISSIA
Caccia, Massimo	CNR - ISSIA
Bruzzone, Gabriele	CNR - ISSIA
11:10-11:30	FrA1.3
<i>Guidance and Control of an Overactuated Autonomous Surface Platform for Diver Tracking (I)</i> , pp. 1280-1285.	
Miskovic, Nikola	Lab. for Underwater Systems and Tech. Facultyof El
Nađ, Đula	Faculty of Electrical Engineering and Computing, Univ. Za
Stilinović, Nikola	Univ. of Zagreb Faculty of Electrical Engineering and Compu
Vukic, Zoran	Univ. of zagreb, Faculty of Electrical EngineeringandComput
11:30-11:50	FrA1.4
<i>GAS Decentralized Navigation Filters in a Continuous-Discrete Fixed Topology Framework</i> , pp. 1286-1291.	
Viegas, Daniel	Inst. Superior Técnico
Batista, Pedro	Inst. Superior Técnico
Oliveira, Paulo Jorge	Inst. Superior Técnico
Silvestre, Carlos	Univ. of Macau
11:50-12:10	FrA1.5
<i>Comparative Assessment of Human Machine Interfaces for ROV Guidance with Different Levels of Secondary Visual Workload (I)</i> , pp. 1292-1297.	
Vasiljevic, Antonio	Lab. for Underwater Systems and Tech. Faculty of E
Miskovic, Nikola	Lab. for Underwater Systems and Tech. Facultyof El
Vukic, Zoran	Univ. of zagreb, Faculty of Electrical EngineeringandComput

FrA2

Renewable Energy and Sustainability (Regular Session)	
Chair: Aitouche, Abdel	LAGIS/HEI
10:30-10:50	FrA2.1
<i>Stability Analysis of Photovoltaic Systems Driven by Advanced MPPT Controllers</i> , pp. 1298-1303.	
Krommydas, Konstantinos	Univ. of Patras
Alexandridis, Antonios	Univ. of Patras
10:50-11:10	FrA2.2
<i>Robust Fuzzy Controller for Photovoltaic Maximum Power Point Tracking</i> , pp. 1304-1309.	
Kamal, Elkhatib	LAGIS FRE CNRS 3033, Lille, France
Aitouche, Abdel	LAGIS/HEI
Kuzmych, Olena	Volyn National Univ.
11:10-11:30	FrA2.3
<i>Influence of the Transition from Part Load to Full Load Operation on the Mechanical Subsystem of the Drive Train of a Wind Energy Converter</i> , pp. 1310-1315.	
Broy, Alexander	Ruhr-Univ. Bochum
Sourkounis, Constantinos	Ruhr-Univ. Bochum
11:30-11:50	FrA2.4
<i>Regulation of Angular Speed and Reactive Power for a Wind Turbine Applying Robust Feedback Linearization and H-Infinity Control</i> , pp. 1316-1321.	
Di Giorgio, Alessandro	Univ. of Rome "La Sapienza"
Mercurio, Andrea	Univ. of Rome Sapienza
Liberati, Francesco	Univ. di Roma La Sapienza
11:50-12:10	FrA2.5
<i>Minimization of Water Losses for Optimal Hydroelectric Power Generation</i> , pp. 1322-1328.	
Rosero, Nadia	Univ. del Valle
Ramirez, Jose Miguel	Univ. del Valle
Martinez, John-Jairo	Gipsa-Lab. INP-Grenoble
12:10-12:30	FrA2.6
<i>IEC 61851 Compliant Electric Vehicle Charging Control in Smartgrids</i> , pp. 1329-1335.	
Di Giorgio, Alessandro	Univ. of Rome "La Sapienza"
Liberati, Francesco	Univ. of Rome "La Sapienza"
Canale, Silvia	Univ. of Rome "Sapienza"
FrA3	Imperial 2
Biologically Inspired Systems (Regular Session)	
Chair: Tsakiris, Dimitris	FORTH
10:30-10:50	FrA3.1
<i>Stabilizing a Quadruped Robot Locomotion Using a Two Degree of Freedom Tail</i> , pp. 1336-1342.	
Mutka, Alan	Faculty of Electrical Engineering and Computing, Univ.
Orsag, Matko	Univ. of Zagreb
Kovacic, Zdenko	Univ. of Zagreb
10:50-11:10	FrA3.2
<i>Turning Maneuvers of an Octopus-Inspired Multi-Arm Robotic Swimmer</i> , pp. 1343-1349.	
Sfakiotakis, Michael	Foundation for Res. and Tech. - Hellas (FORTH)
Kazakidi, Asimina	Foundation for Res. & Tech. - Hellas (FORTH)
Tsakiris, Dimitris	FORTH
11:10-11:30	FrA3.3
<i>Automated Detection of Scallops in Their Natural</i>	

Imperial 1

<i>Environment</i> , pp. 1350-1355.			
Kannappan, Prasanna	Univ. of Delaware		
Tanner, Herbert G.	Univ. of Delaware		
11:30-11:50	FrA3.4		FrA5.2
<i>A Comparative Study on Differential Evolution with Other Heuristic Methods for Continuous Optimization</i> , pp. 1356-1361.		<i>Adherence Control for Electric Vehicles on Varying Road Conditions</i> , pp. 1404-1410.	
Maione, Guido	Pol. di Bari	Geamanu, Marcel-Stefan	Lab. des Signaux et Systèmes, Supélec/ IFPEN
Punzi, Antonio	ISS Innovative Software Services GmbH, Stuttgart	Cela, Arben	Groupe ESIEE
Li, Kang	Queen's Univ. Belfast	Mounier, Hugues	Univ. Paris Sud 11
11:50-12:10	FrA3.5	Niculescu, Silviu-Iulian	UMR CNRS 8506, CNRS-SUPELEC
<i>Gravity and Inclination Effects on the Design of Quadruped Robots for Space Exploration</i> , pp. 1362-1367.		Le-Solliec, Guenael	IFP
Kontolatis, Ioannis	National Tech. Univ. of Athens		
Papadopoulos, Evangelos	National Tech. Univ. of Athens		
FrA4	Imperial 3		
Predictive Control I (Regular Session)			
Chair: Ioannidis, Stratos	Department of Production Engineering & Management, Tech. Univ. of Crete		
10:30-10:50	FrA4.1		
<i>Model Predictive Tracking Control for a Head-Positioning in a Hard-Disk-Drive</i> , pp. 1368-1373.			
Taktak, Manel	enis	Abidi, Ines	Univ. of Picardie JulesVerne,Lab.
Chemori, Ahmed	LIRMM, Montpellier	Bosche, Jérôme	Univ. of Picardie Jules Verne Amiens
Ghommam, Jawhar	ENIS	El Hajjaji, Ahmed	Univ. de Picardie-Jules Verne
Derbel, Nabil	Professor	Aguilera-González, Adriana	Univ. de Picardie Jules Verne
10:50-11:10	FrA4.2		
<i>On the Computation of Kalman Gain in Large Adaptive Optics Systems</i> , pp. 1374-1379.			
Beghi, Alessandro	Univ. di Padova		
Cenedese, Angelo	Univ. of Padova		
Masiero, Andrea	Univ. di Padova		
11:10-11:30	FrA4.3		
<i>Stability Analysis of a Predictive PI Controller</i> , pp. 1380-1385.			
Airikkala, Pasi	Metso Automation		
11:30-11:50	FrA4.4		
<i>Stabilizing Predictive Controller for Singular Linear Systems</i> , pp. 1386-1392.			
Sredojev, Sonja	The Univ. of New South Wales		
Eaton, Ray	The Univ. of New South Wales		
11:50-12:10	FrA4.5		
<i>A New Dual-Mode Model Predictive Control for Constrained Linear Systems</i> , pp. 1393-1397.			
Nguyen, Hoai-Nam	Tech.		
Gutman, Per-Olof	Tech.		
FrA5	Imperial 4		
Robust Control II (Regular Session)			
Chair: Herman, Przemyslaw	Poznan Univ. of Tech.		
10:30-10:50	FrA5.1		
<i>An Indirect Adaptive Feedback Attenuation Strategy for Active Vibration Control</i> , pp. 1398-1403.			
Landau, Ioan Dore	CNRS	Esch, Jonas	Univ. of Duisburg Essen
Arimitoiae, Tudor-Bogdan	IRISA / Inria Rennes Bretagne Atlantique	Ding, Steven X.	Univ. of Duisburg-Essen
11:30-11:50	FrA6.4	Weinhold, Nick	IAV GmbH
<i>Microcontroller Implementation of Digital Fractional Order Controllers for Time Delay Processes</i> , pp. 1445-1450.		Schultalbers, Matthias	IAV GmbH
Both, Roxana	Tech. Univ. of Cluj-Napoca		

Muresan, Cristina Ioana	Tech. Univ. of Cluj Napoca	<i>and Distributed Delays</i> , pp. 1495-1501.
Dulf, Eva Henrietta	Tech. Univ. of Cluj Napoca	Somarakis, Christoforos
Dulf, Francisc-Vasile	Univ. of Agricultural Sciences and Veterinary Medicine	Univ. of Maryland, Coll. Park
		Baras, John S.
11:50-12:10	FrA6.5	Univ. of Maryland
<i>Differential Evolution Based Intelligent Control for Speed Regulation of a PMDC Motor</i> , pp. 1451-1456.		14:40-15:00
Hussain, Syed Asim	King Fahd Univ. of Petroleum and Minerals	FrB2.3
Abido, Mohammad Ali	King Fahd Univ. of Petroleum & Minerals	<i>Strict LMI Approach to the Robust Stabilization of Takagi-Sugeno Fuzzy Descriptor Systems</i> , pp. 1502-1506.
		Bahloul, Mohamed
		Univ. of Picardie Jules Verne
		El Hajjaji, Ahmed
		Univ. de Picardie-Jules Verne
		Chaabane, Mohamed
		National Engineering school of Sfax, Tunisia
		Souissi, Mansour
		Engineering school of Sfax, Tunisia
FrB1	IMPERIAL	15:00-15:20
Nonlinear Control III (Regular Session)		FrB2.4
Chair: Fadel, Maurice	LAPLACE	<i>Circular Formation Control Protocols for Dynamic Unicycles Via Hybrid Stabilization of Sets</i> , pp. 1507-1513.
Co-Chair: Grøtli, Esten Ingar	Norwegian Univ. of Science and Tech.	Haddad, Wassim M.
		Georgia Inst. of Tech.
14:00-14:20	FrB1.1	Hui, Qing
<i>Nonlinear Observer Design for a Greitzer Compressor Model</i> , pp. 1457-1463.		Texas Tech. Univ.
Backi, Christoph Josef	Norwegian Univ. of Science and Tech.	15:20-15:40
Gravdahl, Jan Tommy	Norwegian Univ. of Science & Tech.	FrB2.5
Grøtli, Esten Ingar	Norwegian Univ. of Science and Tech.	<i>Adaptive Rule-Base Fuzzy Logic Power System Stabilizer for a Multimachine System</i> , pp. 1514-1519.
		Hussein Mohammed, Tawfiq
		Univ. of Benghazi
		Shamekh, Awad
		Univ. of benghazi
14:20-14:40	FrB1.2	FrB3
<i>Nonlinear Control of a Novel Active Magnetic Bearings Technology Based High-Precision Positioning Stage</i> , pp. 1464-1469.		Imperial 2
Basovich, Sergei	Ben Gurion Univ.	Computational Intelligence (Regular Session)
Arogeti, Shai	Ben-Gurion Univ. of the Negev	Chair: Rovithakis, George A.
Brand, Ziv	Ben Gurion Univ.	Aristotle Univ. of Thessaloniki
Levi, Nisim	Ben Gurion Univ.	14:00-14:20
		<i>Observer Based Dissipative Reliable Control for Takagi-Sugeno Fuzzy Systems with Time Delay</i> , pp. 1520-1525.
14:40-15:00	FrB1.3	Gassara, Hamdi
<i>Compositional Stability of Approximately Symmetric Systems: Initial Results</i> , pp. 1470-1476.		Univ. of Picardie Jules Verne
Goodwine, Bill	Univ. of Notre Dame	Siala, Fatma
		Sfax Univ.
15:00-15:20	FrB1.4	El Hajjaji, Ahmed
<i>Direct Torque Control - a Solution for Mono Inverter-Dual Parallel PMSM System</i> , pp. 1477-1483.		Chaabane, Mohamed
Fadel, Maurice	LAPLACE	National Engineering school of Sfax, Tunisia
Nguyen, Linh	LAPLACE/CNRS/INPT	14:20-14:40
Ana, Llor	LAPLACE/ENSEEIHT/CNRS	FrB3.2
		<i>A Supervised Learning Method of Neural Networks in a Non-Linear and Time Depended Control Process</i> , pp. 1526-1531.
15:20-15:40	FrB1.5	Papoutsidakis, Michail
<i>CLF-Based Nonlinear Control Design for Turbocharged Diesel Engine</i> , pp. 1484-1489.		Tech. Inst. of Piraeus
Kuzmych, Olena	Hautes Etudes d'Ingenieur and LAGIS CNRS	Pipe, Tony
Aitouche, Abdel	LAGIS/HEI	Univ. of the West ofEngland, Bristol
		Chamilothoris, George
		Piraeus Inst. of Tech.
14:40-15:00	FrB3.1	14:40-15:00
<i>Learning Structural Uncertainties of Nonlinear Systems with RBF Neural Networks Via Persistently Exciting Control</i> , pp. 1532-1537.		FrB3.3
Bechlioulis, Charalampos	Aristotle Univ. of Thessaloniki	<i>H1 Fuzzy Networked Control for Vehicle Lateral Dynamics</i> , pp. 1538-1543.
Rovithakis, George A.	Aristotle Univ. of Thessaloniki	Latrach, Chedia
		Univ. of Picardie Jules Verne
		Kchaou, Mourad
		National School of Engineers of Sfax Tunisia
		El Hajjaji, Ahmed
		Univ. de Picardie-Jules Verne
		Rabhi, Abdelhamid
		MIS
15:00-15:20	FrB3.4	15:20-15:40
<i>Feedback Design Air-Path Control on a Diesel Engine Based on Takagi-Sugeno Fuzzy Descriptor Systems</i> , pp. 1544-1549.		FrB3.5
Barão, Miguel	Inesc-id	
14:20-14:40	FrB2.2	
<i>LTI Continuous Time Consensus Dynamics with Multiple</i>		

Aguilera-González, Adriana Bosche, Jérôme	Univ. de Picardie Jules Verne Univ. of Picardie Jules Verne of Amiens	FrB5.2
El Hajjaji, Ahmed Abidi, Ines	Univ. de Picardie-Jules Verne Univ. of Picardie JulesVerne,Lab.	
FrB4 Predictive Control II (Regular Session)	Imperial 3	
Chair: Peyrl, Helfried	ABB Corp. Res.	
14:00-14:20	FrB4.1	FrB5.3
<i>Linear Model Predictive Control for the Encirclement of a Target Using a Quadrotor Aircraft</i> , pp. 1550-1556.		
Iskandarani, Mohamad	Royal Military Coll. of Canada	West Virginia Univ.
Givigi, Sidney	Royal Military Coll. of Canada	West Virginia Univ.
Rabbath, Camille Alain	Defence Res. & Dev Canada	West Virginia Univ.
Beaulieu, Alain	Royal Military Coll. of Canada	West Virginia Univ.
14:20-14:40	FrB4.2	
<i>An Architecture for Solving Quadratic Programs with the Fast Gradient Method on a Field Programmable Gate Array</i> , pp. 1557-1562.		
Boechat, Marc-Alexandre	ABB Corp. Res.	INESC-ID
Liu, Junyi	École Pol. Fédérale de Lausanne	IST/ISR
Peyrl, Helfried	ABB Corp. Res.	IT/IST
Zanarini, Alessandro	ABB Schweiz AG - Corp. Res. Center, Segelhofstrasse 1K,	Inesc-id
Besselmann, Thomas	ABB Corp. Res.	Inst. Superior Técnico
14:40-15:00	FrB4.3	FrB5.4
<i>Control of Autonomous Underactuated Surface Vehicle in the Presence of Environmental Disturbances</i> , pp. 1563-1568.		
Przybyla, Mateusz	Poznań Univ. of Tech.	
Lakomy, Krzysztof	Poznań Univ. of Tech.	
Herman, Przemysław	Poznan Univ. of Tech.	
15:00-15:20	FrB4.4	
<i>Freeway Shockwave Control Using Ramp Metering and Variable Speed Limits</i> , pp. 1569-1574.		
Csikós, Alfréd	Computer and Automation Res. Inst.	
Varga, István	Budapest Univ. of Tech. and Ec.	
Hangos, Katalin M.	Computer & Automation Rsrch. Inst. of the Hungarian Academy of Sci	
15:20-15:40	FrB4.5	
<i>An Obstacle Avoidance Model Predictive Control Scheme: A Sum-Of-Squares Approach</i> , pp. 1575-1582.		
Lucia, Walter	Univ. della Calabria	
Franze', Giuseppe'	Univ. Degli Studi della Calabria	
Muraca, Pietro	Univ. della Calabria	
FrB5 Image Processing (Regular Session)	Imperial 4	
Chair: Zingaretti, Primo Co-Chair: Papanikolopoulos, Nikos	Univ. Pol. delle Marche Univ. of Minnesota	
14:00-14:20	FrB5.1	
<i>A Genetic Algorithm for the Construction of Optimized Covariance Descriptors</i> , pp. 1583-1588.		
Bruyas, Arnaud Papanikolopoulos, Nikos	CSE, UMN Univ. of Minnesota	