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Content List of The 9th IEEE International Conference on Control & Automation

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Chair: Bishop, Adrian	Australian National Univ. (ANU)
Co-Chair: Yu, Changbin	Australian National Univ.
Organizer: Bishop, Adrian	Australian National Univ. (ANU)
Organizer: Yu, Changbin	Australian National Univ.
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Yu, Changbin	Australian National Univ.
Anderson, Brian D.O.	Australian National Univ.
Drake, Samuel	Defence Science and Tech. Organization (DSTO)
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Chair: Nomm, Sven	Inst. of Cybernetics at TUT
Co-Chair: Yuz, Juan I.	Univ. Técnica Federico Santa Maria
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Aguero, Juan C.	The Univ. of Newcastle
Yuz, Juan I.	Univ. Técnica Federico Santa Maria
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Zanasi, Roberto	Univ. of Modena and Reggio Emilia
Grossi, Federica	Univ. of Modena and Reggio Emilia
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Belikov, Juri	Tallinn Univ. of Tech.
Petlenkov, Eduard	Tallinn Univ. of Tech.
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Co-Chair: Miguel, Castaño	Luleå Univ. of Tech.
Arranz	
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Lee, Tong Heng	National Univ. of Singapore

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Birk, Wolfgang	Luleå Univ. of Tech.
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Avanessov, Sergei	Tallinn Univ. of Tech.
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Pellegrino, Felice Andrea	Univ. of Trieste
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Tangerino, Giovana Tripoloni São Carlos School of Engineering,
Univ. of São Paulo

Godoy, Eduardo Paciencia São Paulo State Univ. (UNESP)
Tabile, Rubens André São Carlos School of Engineering
- Univ. of São Paulo

Inamasu, Ricardo Yassushi Embrapa Inst.
Porto, Arthur José Vieira São Carlos School of Engineering,
Univ. of São Paulo

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MonB1 Room 1
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Chair: Silva, Eduardo I. Univ. Tecnica Federico Santa
Maria

Co-Chair: Rojas, Alejandro Univ. de Concepción
Organizer: Silva, Eduardo I. Univ. Tecnica Federico Santa
Maria

Organizer: Rojas, Alejandro Univ. de Concepción
Organizer: Derpich, Milan The Univ. of Newcastle

Stefan

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Cea Garrido, Mauricio Esteban Univ. of Newcastle
Goodwin, Graham C. Univ. of Newcastle

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Nair, Girish N. Univ. of Melbourne

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Ostergaard, Jan Aalborg Univ.
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Allgower, Frank Univ. of Stuttgart

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Rohr, Eduardo Rath Univ. of Newcastle
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Fu, Minyue Univ. of Newcastle

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Xiao, Nan Nanyang Tech. Univ.
Xie, Lihua Nanyang Tech. Univ.

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Waschburger, Ronaldo		Inst. Tecnologico de Aeronautica
Paiva, Henrique Mohallem		Empresa Brasileira de Aeronáutica - Embraer
Galvão, Roberto Kawakami Harrop		Inst. Tecnológico de Aeronáutica
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Garcia, Claudio		Pol. School of the Univ. of São Paulo
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Rao, Avinash Aden		Univ. of Canterbury
Snowdon, Malcolm		Univ. of Canterbury
Winn, Olivia		Univ. of Canterbury
Wongvanich, Napasool		Univ. of Canterbury
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Delahaye, Daniel		Ec. Nationale de l'Aviation Civile
Rabut, Christophe		Univ. de Toulouse (INSA, IMT, IREM)
Puechmorel, Stephane		Ec. Nationale de l'Aviation Civile
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Co-Chair: Saez, Doris		Univ. de Chile
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Vilanova, Ramon

UAB

Alfaro, Victor M.

Univ. of Costa Rica

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Alfaro, Victor M.

Univ. of Costa Rica

Mendez Arias, Verny

Univ. de Costa Rica

Vilanova, Ramon

UAB

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Keviczky, Laszlo

Hungarian Acad. of Sciences

Banyasz, Csilla

Hungarian Acad. of Sciences

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Munoz-Carpintero, Diego

Oxford Univ.

Cannon, Mark

Univ. of Oxford

Kouvaritakis, Basil

Oxford Univ.

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Wu, Hansheng

Prefectural Univ. of Hiroshima

MonB4

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Chair: Yu, Wen

CINVESTAV-IPN

Co-Chair: Siqueira, Adriano A
G

Univ. of Sao Paulo

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Melo Neto, Adao de Melo Neto

IME - Military Inst. of Engineering

Ferreira Rosa, Paulo

IME - Military Inst. of Engineering

Fernando Ferreira Rosa

IME - Military Inst. of Engineering

Pellanda, Paulo C.

IME - Military Inst. of Engineering

Alves de Oliveira, Thiago

Inst. Militar de Engenharia

Eustaquio Alves de Oliveira

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Peza-Solis, Juan Fernando

CINVESTAV-IPN

Castro-Linares, Rafael

CINVESTAV-IPN

Silva-Navarro, Gerardo

CINVESTAV-IPN

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Li, Xiaouu

CINVESTAV-IPN

Yu, Wen

CINVESTAV-IPN

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Sousa, Rafael Vieira de

School of Engineering of São Carlos of the Univ. of São Pau

Lopes, Wellington Carlos

Department of Mechanical Engineering, School of Engineering of S

Pereira, Robson, Robson	Engineering School of São Carlos
Pereira	- Univ. of São Paulo
Inamasu, Ricardo Yassushi	Embrapa Inst.
Porto, Arthur José Vieira	São Carlos School of Engineering, Univ. of São Paulo

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Gomes, Marciel Alberto	Univ. of Sao Paulo
Siqueira, Adriano A G	Univ. of Sao Paulo
Gobbo, Rafael Gomes	Univ. of São Paulo

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Rodríguez Gatica, Juan	Univ. de Concepción
Eduardo	
Valenzuela Latorre, M. Anibal	Univ. of Concepcion

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Chair: Cong, Shuang	Univ. of Sci. & Tech. of China
Co-Chair: Saez, Doris	Univ. de Chile

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Wang, Youyi	Nanyang Tech. Univ.

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Wang, Youyi	Nanyang Tech. Univ.
Cheng, Shijie	Huazhong Univ. of Science and Tech.

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Buzurovic, Ivan	Thomas Jefferson Univ.
Nestorovic, Tamara	Ruhr-Univ. Bochum, Germany
Popov, Dejan	Univ. of Belgrade, School of Mechanical Engineering, Belgr

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Cong, Shuang	Univ. of Sci. & Tech. of China

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Ben Khaled, Raoudha	ISI
Mnasri, Chaouki	ISSAT Mateur, URAII, INSAT, Univ. of Carthage
Gasmi, Moncef	INSAT

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Kase, Wataru	Osaka Inst. of Tech.
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Chair: Halas, Miroslav	Slovak Univ. of Tech.
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Goodwin, Graham C.	Univ. of Newcastle

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Chen, Ben M.	National Univ. of Singapore

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Singhose, William E.	Georgia Inst. of Tech.
Costello, Mark	Oregon State Univ.

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Kotta, Ülle	Inst. of Cybernetics at TUT
Kotta, Palle	Inst. of Cybernetics at TUT
Tonso, Maris	Inst. of Cybernetics at Tallinn Univ. of
Halas, Miroslav	Slovak Univ. of Tech.

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Belikov, Juri	Inst. of Cyber. at Tallinn Univ.
Halas, Miroslav	Slovak Univ. of Tech.
Kotta, Ülle	Inst. of Cybernetics at TUT
Moog, Claude	CNRS

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Belikov, Juri	Tallinn Univ. of Tech.
Kotta, Ülle	Inst. of Cybernetics at TUT
Tonso, Maris	Inst. of Cybernetics at Tallinn Univ. of

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Chair: Muñoz, Rocio	UNED
Co-Chair: Osorio, Joycer	ITESM-CCM

16:00-16:20 MonC3.1

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Madani, Tarek	Univ. de Versailles

Fridman, Leonid M.	Saint-Quentin-en-Yvelines National Autonomous Univ. of Mexico
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Muñoz, Rocio	UNED
Aranda, Joaquín	Univ. Nacional de Educación a Distancia
Díaz, Jose Manuel	UNED
Chaos, Dictino	UNED
Reinoso, Antonio J.	Univ. Rey Juan Carlos
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Baptista, Roberto	Univ. of Brasília
Ishihara, João Yoshiyuki	Univ. of Brasília
Borges, Geovany Araújo	Univ. of Brasília
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Osorio, Joycer	Tecnológico de Monterrey
Molina, Arturo	Tecnológico de Monterrey
Ponce, Pedro	ITESM-CCM
Romero, David	Tecnológico de Monterrey

MonC4	Room 4
Motion Control (Regular Session)	
Chair: Gutman, Per-Olof	Tech.
Co-Chair: Fossen, Thor I.	Norwegian Univ. of Science and Tech.
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Peymani Foroushani, Ehsan	Norwegian Univ. of Science and Tech.
Fossen, Thor I.	Norwegian Univ. of Science and Tech.
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Johansen, Tor Arne	Norwegian Univ. of Science & Tech.
Mykland, Geir Kaare	Kongsberg Defence Systems

Skullestad, Aage	Kongsberg Defence Systems
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Gutman, Per-Olof	Tech.
Borshchevsky, Mikhail	Tech.
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Fakharian, Ahmad	Islamic Azad Univ. Branch
Yousefi Azar Khanian, Mahdi	Islamic Azad Univ. Branch
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Andaluz, Victor	Univ. Nacional de San Juan
Sarcinelli-filho, Mario	Federal Univ. of Espirito Santo
Carelli, Ricardo	Univ. Nacional De San Juan
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Yousefi Azar Khanian, Mahdi	Islamic Azad Univ. Branch
Meybodi, Mohammad Reza	Amirkabir Univ. of Tech. Tehran, Iran
Fakharian, Ahmad	Islamic Azad Univ. Branch

Technical Program for Tuesday December 20, 2011

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Chair: Orchard, Marcos E.	Univ. de Chile
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Albertos, Pedro	Univ. Pol. de Valencia
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Chair: Silva, Eduardo I.	Univ. Tecnica Federico Santa Maria
Co-Chair: Zheng, Yufan	Univ. of Shanghai
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Tai, Xin	The Univ. of Newcastle
Marelli, Damián	Univ. of Newcastle
Rohr, Eduardo Rath	Univ. of Newcastle
Fu, Minyue	Univ. of Newcastle
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Silva, Eduardo I.	Univ. Tecnica Federico Santa Maria
Solis, Miguel A.	UTFSM
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Bourque, François-Alex	Defence Res. and Development Canada
Nguyen, Bao	Defence R&D Canada - Centre for Operational Res. and Analysis
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Godoy, Eduardo Paciencia	São Paulo State Univ. (UNESP)
Scorzoni, Fernando	São Carlos School of Engineering, Univ. of São Paulo
Tangerino, Giovana Tripoloni	São Carlos School of Engineering, Univ. of São Paulo
Porto, Arthur José Vieira	São Carlos School of Engineering, Univ. of São Paulo
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14:50-15:10	TueB1.5
<i>A New Criterion to Linear Consensus Protocols Over Time-Varying Directed Networks</i> , pp. 467-470.	
Cao, Li	East China Normal Univ.
Zheng, Yufan	Univ. of Shanghai
Zhou, Qing	East China Normal Univ.
15:10-15:30	TueB1.6
<i>An Unified Theory for Collective Behavior of Cooperative System</i> , pp. 471-476.	
Jin, Jidong	Capital Univ. of Ec. and Business
Zheng, Yufan	Univ. of Shanghai
Zheng, Xiaoling	Capital Univ. of Ec. and Business

TueB2	Room 2
Nonlinear Systems and Control I (Regular Session)	
Chair: Kravaris, Costas	Univ. of Patras
Co-Chair: Schöberl, Markus	Johannes Kepler Univ. Linz
13:30-13:50	TueB2.1
<i>On Calculating Flat Outputs for Pfaffian Systems by a Reduction Procedure - Demonstrated by Means of the VTOL Example</i> , pp. 477-482.	
Schöberl, Markus	Johannes Kepler Univ. Linz
Schlacher, Kurt	Johannes Kepler Univ. of Linz
13:50-14:10	TueB2.2
<i>A High-Gain-Based Global Finite-Time Nonlinear Observer</i> , pp. 483-488.	
Li, Yunyan	Univ. of Pretoria
Xia, Xiaohua	Univ. of Pretoria
Shen, Yanjun	China Three Gorges Univ.
14:10-14:30	TueB2.3
<i>Control of a Nonlinear Teleoperation System by State Convergence</i> , pp. 489-494.	
Tafur, Julio C.	Pontificia Univ. Católica del Perú
Garcia, Cecilia	UPM- CSIC
Aracil, Rafael	Univ. Pol. de Madrid
Saltaren, Roque	Univ. Pol. de Madrid
14:30-14:50	TueB2.4
<i>On Feedback Invariants of Controlled Conservative Contact Systems</i> , pp. 495-500.	
Ramirez Estay, Hector M.	Univ. Claude Bernard Lyon 1
Maschke, Bernhard	Univ. Claude Bernard of Lyon
Sbarbaro, Daniel G.	Univ. de Concepcion
14:50-15:10	TueB2.5
<i>Functional Observers for Nonlinear Systems</i> , pp. 501-506.	
Kravaris, Costas	Univ. of Patras
15:10-15:30	TueB2.6
<i>Extended Observer Form for Discrete-Time Nonlinear Control Systems</i> , pp. 507-512.	
Kaparin, Vadim	Inst. of Cybernetics at TUT
Kotta, Ülle	Inst. of Cybernetics at TUT
TueB3	Room 3
Complex Systems (Regular Session)	
Chair: Pham, Khanh	THE UNITED STATES AIR FORCE Res. Lab.
Co-Chair: Iftar, Altug	Anadolu Univ.
13:30-13:50	TueB3.1
<i>Adaptive Pursuit-Evasion under Adversarial Confrontations--Part II: Risk-Averse and Efficient Pareto Strategies in Linear-Quadratic Differential Games</i> , pp. 513-520.	
Pham, Khanh	THE UNITED STATES AIR FORCE Res. Lab.
13:50-14:10	TueB3.2
<i>Model Predictive Control of Distributed and Aggregated Battery Energy Storage System for Capacity Optimization</i> , pp. 521-526.	
Khalid, Muhammad	The Univ. of New South Wales
Savkin, Andrey V.	Univ. of New South Wales

14:10-14:30	TueB3.3
<i>Prognosis of Complex Systems by Analysis Damage Trajectory</i> , pp. 527-531.	
Ouladsine, Radouane	Paul Cezanne Univ. (LSIS)
Outbib, Rachid	Isis
Basualdo, Marta S.	Univ. Nacional de Rosario
14:30-14:50	TueB3.4
<i>Model Predictive Control of Multi-Line Metro Systems: A Distributed Approach</i> , pp. 532-537.	
Núñez, Felipe	Univ. of California, Santa Barbara
Cipriano, Aldo	Pontificia Univ. Catolica de Chile
14:50-15:10	TueB3.5
<i>Robust Tracking and Disturbance Rejection for Systems with Distributed Time-Delay</i> , pp. 538-543.	
Iftar, Altug	Anadolu Univ.
15:10-15:30	TueB3.6
<i>A Dynamic Genetic Clustering Algorithm for Automatic Choice of the Number of Clusters</i> , pp. 544-549.	
He, Hong	Shanghai Normal Univ.
Tan, Yonghong	Shanghai Normal Univ.

TueB4	Room 4
Control Applications I (Regular Session)	
Chair: Khorrami, Farshad	Pol. Inst. of NYU
Co-Chair: Basilio, Joao Carlos	Univ. Federal de Rio de Janeiro
13:30-13:50	TueB4.1
<i>Integrated Online Auto-Tuning and Digital Implementation of PID Controllers in Industrial Processes</i> , pp. 550-555.	
Basilio, Joao Carlos	Univ. Federal de Rio de Janeiro
Manyari Rivera, Manuel	COLP SAC
Humberto	
13:50-14:10	TueB4.2
<i>Control of Active Magnetic Bearing Systems on Non-Static Foundations</i> , pp. 556-561.	
Yoon, Se Young	Univ. of Virginia
Lin, Zongli	Univ. of Virginia
Dimond, Timothy William	Univ. of Virginia
Allaire, Paul E.	Univ. of Virginia
14:10-14:30	TueB4.3
<i>Stability Analysis and Design of Sampled-Data Switching Control with an Application to HDD Systems</i> , pp. 562-566.	
Guo, Yuqian	Central South Univ.
Xie, Lihua	Nanyang Tech. Univ.
Wang, Youyi	Nanyang Tech. Univ.
14:30-14:50	TueB4.4
<i>Adaptive Output-Feedback Control of Planar Hybrid Step Motors Using Position-Only Feedback</i> , pp. 567-572.	
Krishnamurthy, Prashanth	FarCo Tech. Inc.
Khorrami, Farshad	Pol. Inst. of NYU
14:50-15:10	TueB4.5
<i>Evaluation of Three Protocols for Automatic DOA Regulation Using Propofol and Remifentanyl</i> , pp. 573-578.	
Nascu, Ioana	Ghent Univ. Tech. Univ. of Cluj Napoca
Ionescu, Clara	Ghent Univ.
Nascu, Ioan	Tech. Univ. of Cluj-Napoca

De Keyser, Robin M.C.	Univ. of Gent
15:10-15:30	TueB4.6
<i>Vibration Suppression of Mobile Medical Imaging System for Diagnosis Using Zero Vibration Control</i> , pp. 579-583.	
Kim, Duckjune	KITECH
Lee, Kwang Hee	Vision Solution
Ji, Sang Hoon	KITECH
Shon, Woong-Hee	KITECH

TueB5	Room 5
Fault Detection (Regular Session)	
Chair: Tang, Liang	Impact Tech. LLC.
Co-Chair: Lagos, Carolina	Univ. de Santiago de Chile
13:30-13:50	TueB5.1
<i>An Integrated Health and Contingency Management Case Study on an Autonomous Ground Robot</i> , pp. 584-589.	
Tang, Liang	Impact Tech. LLC.
Zhang, Bin	Georgia Inst. of Tech.
DeCastro, Jonathan	Impact Tech. LLC.
Hettler, Eric	Impact Tech. LLC.
13:50-14:10	TueB5.2
<i>Estimation and Reconstruction of Multiple System, Actuator, and Sensor Faults in Time-Delayed Linear Systems</i> , pp. 590-595.	
Ahmadi, Ali Akbar	Univ. of Tehran
Salmasi, Farzad Rajaei	Univ. of Tehran
14:10-14:30	TueB5.3
<i>A Fault Detection & Isolation Scheme for Discrete Time Switched Linear Systems</i> , pp. 596-601.	
Belkhiat, Djamel Eddine	CRESTIC, Univ. de Reims
Chouaib	Champagne Ardenne
Messai, Nadhir	Univ. de Reims
	Champagne-Ardenne
Manamanni, Nouredine	Univ. of Reims- Champagne
14:30-14:50	TueB5.4
<i>On the Unknown Input Observer Design : A Decoupling Class Approach</i> , pp. 602-607.	
Bezzaoucha, Souad	Inst. National Pol. de Lorraine
Marx, Benoît	Centre de Recherche en Automatique de Nancy
Maquin, Didier	Inst. National Pol. de Lorraine
Ragot, Jose	CRAN-INPL
14:50-15:10	TueB5.5
<i>A Note on Unknown Input Interval Observer Design with Application to Systems Prognosis</i> , pp. 608-613.	
Gucik-Derigny, David	Univ. Paul Cézanne aix marseille 3. Lab. des science
Outbib, Rachid	Isis
Ouladsine, Mustapha	Univ. d'aix marseille III
Basualdo, Marta S.	Univ. Nacional de Rosario
15:10-15:30	TueB5.6
<i>Automatic System for File Download of Events in Protection Equipment and Fault Recorders</i> , pp. 614-620.	
Arias Sanchez, Francisco	Univ. Nacional de Colombia - Sede Medellin
Javier	
Hoyos Palacio, Andres Felipe	Univ. Nacional de Colombia - Sede Medellin
Zapata Madrigal, German	Univ. Nacional de Colombia -

Dario
Vasquez Ruiz, Leonardo

Sede Medellin
Interconexion Electrica S.A.E.S.P

TueB6		Room 6
Multi-Agent Systems (Regular Session)		
Chair: Liu, Lu	The Univ. of Nottingham	
Co-Chair: Low, Chang Boon	DSO National Lab.	
13:30-13:50	TueB6.1	
A Flexible Virtual Structure Formation Keeping Control for Fixed-Wing UAVs, pp. 621-626.		
Low, Chang Boon	DSO National Lab.	
Ng, Quee San	DSTA	
13:50-14:10	TueB6.2	
A Dynamic Virtual Structure Formation Control for Fixed-Wing UAVs, pp. 627-632.		
Low, Chang Boon	DSO National Lab.	
14:10-14:30	TueB6.3	
SkyObserver: Decentralized, Real-Time Algorithm for Deployment of a Swarm of Unmanned Aircraft Systems, pp. 633-638.		
Passenbrunner, Thomas Ernst	Johannes Kepler Univ. Linz	
Del Re, Luigi	Johannes Kepler Univ. Linz	
14:30-14:50	TueB6.4	
A Result on the Cooperative Robust Output Regulation for Linear Uncertain Multi-Agent Systems, pp. 639-643.		
Su, Youfeng	Chinese Univ. of Hong Kong	
Hong, Yiguang	Chinese Acad. of Sciences	
Huang, Jie	Chinese Univ. of Hong Kong	
14:50-15:10	TueB6.5	
Robust Cooperative Output Regulation Problem for Nonlinear Multi-Agent Systems, pp. 644-649.		
Liu, Lu	The Univ. of Nottingham	
15:10-15:30	TueB6.6	
Measurement of a Markov Jump Process by Hypothesis Tests, pp. 650-655.		
O'Connor, Alan Christopher	Harvard Univ.	

TueC1	Room 1
Sensor Networks and Networked Control II (Regular Session)	
Chair: Wang, Jianliang	Nanyang Tech. Univ.
Co-Chair: Rojas, Alejandro	Univ. de Concepción
16:00-16:20	TueC1.1
<i>Filter Inputs with Markovian Lossy Links: Zero or Hold?</i> , pp. 656-661.	
Fioravanti, Andre Ricardo	INRIA Roquencourt
Gonçalves, Alim P. C.	UNICAMP
Geromel, Jose C.	UNICAMP
16:20-16:40	TueC1.2
<i>A Preliminary Study on Water Canals Control Over Communication Channels</i> , pp. 662-667.	
Rojas, Alejandro	Univ. de Concepción
16:40-17:00	TueC1.3
<i>H-Infinity Control of Networked Control Systems with Bounded Packet Dropouts</i> , pp. 668-673.	
Wang, Dong	Dalian Univ. of Tech.
Wang, Jianliang	Nanyang Tech. Univ.
Wang, Wei	Dalian Univ. of Tech.

17:00-17:20	TueC1.4
<i>A Robust Filter and Controller Design for NCS with Uncertainties and Data Dropouts</i> , pp. 674-679.	
Jurado Flores, Isabel	Univ. of Seville
Ortega, M. G.	Univ. de Sevilla
Rubio, Francisco R.	Univ. de Sevilla
Rico, Julio Normey	Escuela Superior de Ingenieros de Sevilla

17:20-17:40	TueC1.5
<i>Stabilization of Networked Multi-Input Systems Over AWGN Channels with Channel Resource Allocation</i> , pp. 680-685.	
Chen, Wei	The Hong Kong Univ. of Science and Tech.
Qiu, Li	Hong Kong Univ. of Sci. & Tech.
Gu, Guoxiang	Louisiana State Univ.

17:40-18:00	TueC1.6
<i>Balanced Energy Consumption and Cluster-Based Routing Protocol</i> , pp. 686-691.	
Qin, Huabiao	South China Univ. of Tech.

TueC2		Room 2
Nonlinear Systems and Control II (Regular Session)		
Chair: Sun, Zhendong	South China Univ. of Tech.	
Co-Chair: Perez, Jose Ricardo	Pontificia Univ. Católica de Chile	
16:00-16:20	TueC2.1	
<i>A New Algorithm for Bilinear Predictive Control</i> , pp. 692-697.		
Santos Sobrinho, Manoel de Oliveira	Univ. Federal do Vale do São Francisco	
Fontes, Adhemar de Barros	Univ. Federal da Bahia	
Dorea, Carlos E.T.	Univ. Federal do Rio Grande do Norte	
16:20-16:40	TueC2.2	
<i>Synthesis of Variable Gain Robust Output Feedback Controllers for a Class of Uncertain Lipschitz Nonlinear Systems</i> , pp. 698-703.		
Oya, Hidetoshi	The Univ. of Tokushima	
Hagino, Kojiro	Univ. of Electro-communications	

16:40-17:00	TueC2.3	
<i>Observability Properties of the Periodic Toda Lattice</i> , pp. 704-709.		
Schmidt, Gerd Simon	Inst. for Systems Theory and Automatic Control -Univ. o	
Ebenbauer, Christian	MIT	
Allgower, Frank	Univ. of Stuttgart	

17:00-17:20	TueC2.4	
<i>Nonlinear Control Design for Open-Loop Unstable Quadratic Discrete-Time Systems</i> , pp. 710-715.		
de Souza, Carlos E.	National Lab. for Scientific Computing (LNCC)	
Coutinho, Daniel	Univ. Federal de Santa Catarina	

17:20-17:40	TueC2.5
<i>State Feedback Stabilization of a Class of Discontinuous Systems</i> , pp. 716-721.	
Zhang, Jiangyan	Sophia Univ.
Shen, Tielong	Sophia Univ.

17:40-18:00	TueC2.6
<i>Approximation of Extreme Measure for Switched Linear Systems</i> , pp. 722-725.	

Xiong, Jiandong South China Univ. Tech.
Sun, Zhendong South China Univ. of Tech.

TueC3		Room 3
Learning Systems (Regular Session)		
Chair: Orchard, Marcos E.		Univ. de Chile
Co-Chair: Wang, Qing-Guo		National Univ. of Singapore
16:00-16:20		TueC3.1
Linear, Adaptive and Nonlinear Trading Models for Singapore Stock Market with Random Forests, pp. 726-731.		
Wang, Qing-Guo		National Univ. of Singapore
Li, Jin		National Univ. of Singapore
Qin, Qin		National Univ. of Singapore
Sam Ge, Shuzhi		National Univ. of Singapore
16:20-16:40		TueC3.2
A New Method for Identification of Fuzzy Models Based on Evolutionary Algorithms and Its Application to the Modeling of a Wind Turbine, pp. 732-737.		
Moreno, Gabriel		Univ. de Chile
Saez, Doris		Univ. de Chile
Orchard, Marcos E.		Univ. de Chile
16:40-17:00		TueC3.3
Feedback Stabilization for Planar Switched Linear Systems with Two Subsystems under Arbitrary Switching, pp. 738-743.		
Yang, Yue		National Univ. of Singapore
Xiang, Cheng		National Univ. of Singapore
Lee, Tong Heng		National Univ. of Singapore
17:00-17:20		TueC3.4
Object Oriented C++ Library IsoAgLib Study and Implementation from the Remote CAN-Based Distributed Control System, pp. 744-749.		
Pereira, Robson, Robson		Engineering School of São Carlos
Pereira		- Univ. of São Paulo
Lopes, Wellington Carlos		Department of Mechanical Engineering, School of Engineering of S
Sousa, Rafael Vieira de		School of Engineering of São Carlos of the Univ. of São Pau
Porto, Arthur José Vieira		São Carlos School of Engineering, Univ. of São Paulo
Inamasu, Ricardo Yassushi		Embrapa Inst.
17:20-17:40		TueC3.5
Exploring the Stability of Feature Selection for Imbalanced Intrusion Detection Data, pp. 750-754.		
Li, Fang		Automation Department of XiaMen Univ.
Mi, Hong		School of Public Affairs Zhejiang Univ.
Yang, Fan		Xiamen Univ.
17:40-18:00		TueC3.6
Path Planning for Automated Guided Vehicles System Via Interactive Dynamic Influence Diagrams with Communication, pp. 755-759.		
Luo, Jian		Xiamen Univ.
Yin, Huayi		Xiamen Univ.
Li, Bo		Xiamen Univ.
Wu, Chang-qing		Xiamen Univ.
TueC4		Room 4

Control Applications II (Regular Session)		
Chair: Saragih, Roberd		Inst. Teknologi Bandung
Co-Chair: Garcia-Rodriguez, Rodolfo		Univ. de Los Andes
16:00-16:20		TueC4.1
<i>High-Bandwidth Control Design for a Piezoelectric Nanopositioning Stage</i> , pp. 760-765.		
Zheng, Jinchuan		The Univ. of Newcastle, Australia
Fu, Minyue		Univ. of Newcastle
16:20-16:40		TueC4.2
<i>Grasping and Dynamic Manipulation by Soft Finger-Tips without Object Information</i> , pp. 766-771.		
Garcia-Rodriguez, Rodolfo		Univ. de Los Andes
16:40-17:00		TueC4.3
<i>A New Prediction Model for Liquid Level in Blast Furnaces Based on Time Serie Analysis</i> , pp. 772-777.		
Gomes, Flávio		ArcellorMital
Salles, José Leandro		Federal Univ. of espirito Santo
Wasem, Luiz		ArcellorMital
17:00-17:20		TueC4.4
<i>Switching Control Signal for Bilateral Tele-Operation of a Mobile Manipulator</i> , pp. 778-783.		
Andaluz, Victor		Univ. Nacional de San Juan
Salinas, Lucio		Inst. DE AUTOMATICA
Roberti, Flavio		Univ. Nacional de San Juan
Toibero, Juan M.		Inst. DE AUTOMATICA
Carelli, Ricardo		Univ. Nacional De San Juan
17:20-17:40		TueC4.5
<i>Robust Hybrid Observer for Speed Sensorless Estimation of a DC Motor</i> , pp. 784-789.		
Zhou, Yong		Nanyang Tech. Univ.
Soh, Yeng Chai		Nanyang Tech. Univ.
Shen, JianXin		Zhejiang Univ.
17:40-18:00		TueC4.6
<i>Parameters Optimization of Flexible Structure Using Genetic Algorithm</i> , pp. 790-793.		
Saragih, Roberd		Inst. Teknologi Bandung
TueC5		Room 5
Nonlinear Control and Applications I (Regular Session)		
Chair: Johansen, Tor Arne		Norwegian Univ. of Science & Tech.
Co-Chair: Beghi, Alessandro		Univ. di Padova
16:00-16:20		TueC5.1
<i>Synchronization Control of a Magnetic Levitation System Powered by Alternating Current</i> , pp. 794-799.		
Jose Luis, García-Antonio		CINVESTAV-IPN
Castro-Linares, Rafael		CINVESTAV-IPN
Velasco-Villa, Martin		CINVESTAV-IPN
16:20-16:40		TueC5.2
<i>VAVAC Systems Modeling and Simulation for FDD Applications</i> , pp. 800-805.		
Beghi, Alessandro		Univ. di Padova
Cecchinato, Luca		Univ. di Padova
Paggiaro, Fabio		Univ. degli Studi di Padova
Rampazzo, Mirco		Univ. di Padova

16:40-17:00	TueC5.3
<i>Exponential Stability of Regularized Moving Horizon Observer for N-Detectable Nonlinear Systems</i> , pp. 806-811.	
Sui, Dan	Norwegian Univ. of Science
Johansen, Tor Arne	Norwegian Univ. of Science & Tech.
17:00-17:20	TueC5.4
<i>Semi-Active Control of Cab Suspension in an Agricultural Tractor Via Magneto-Rheological Actuator</i> , pp. 812-817.	
Spelta, Cristiano	Univ. degli Studi di Bergamo
Previdi, Fabio	Univ. degli Studi di Bergamo
Savaresi, Sergio M.	Pol. Di Milano
Delvecchio, Diego	Pol. di Milano
Tremolada, Simone	Same Deutz Fahr
17:20-17:40	TueC5.5
<i>Comparison of Methods for Estimation and Compensation of Friction Applied to an Inverted Pendulum</i> , pp. 818-823.	
Tanzarella Teixeira, Hugo	Univ. Federal do Espirito Santo
Victor Siqueira, Victor	Univ. Federal do Espirito Santo
Munaro, Celso Jose	Federal Univ. of Espirito Santo
17:40-18:00	TueC5.6
<i>Circadian Phase Control Using Observer-Based Back-Stepping Design</i> , pp. 824-829.	
TonThat, Long	Univ. of Manchester
Ding, Zhengtao	The Univ. of Manchester

TueC6	Room 6
Advances in Systems and Control (Invited Session)	
Chair: Lin, Zongli	Univ. of Virginia
Co-Chair: Xie, Lihua	Nanyang Tech. Univ.
Organizer: Lin, Zongli	Univ. of Virginia
Organizer: Chen, Ben M.	National Univ. of Singapore

16:00-16:20	TueC6.1
<i>Consensus for General Multi-Agent Systems Over Random Graphs (I)</i> , pp. 830-835.	
You, Keyou	Nanyang Tech. Univ.
Xie, Lihua	Nanyang Tech. Univ.
Li, Zhongkui	Coll. of Engineering, Peking Univ. Beijing, China.
16:20-16:40	TueC6.2
<i>Distributed Consensus Over Directed Networks with Limited Information Communication (I)</i> , pp. 836-841.	
Li, Dequan	Shanghai Jiaotong Univ.
Liu, Qipeng	Shanghai Jiao Tong Univ.
Wang, Xiaofan	Shanghai Jiao Tong Univ.
Lin, Zongli	Univ. of Virginia
16:40-17:00	TueC6.3
<i>Reduced-Order Observer Design for Nonlinear Systems with Unknown Inputs (I)</i> , pp. 842-847.	
Ding, Zhengtao	The Univ. of Manchester
17:00-17:20	TueC6.4
<i>Minimum Time Control of Helicopter UAVs Using Computational Dynamic Optimization (I)</i> , pp. 848-852.	
Tang, Kevin	Stevenson School
Wang, Biao	National Univ. of Singapore
Kang, Wei	Naval Postgraduate School

Chen, Ben M.	National Univ. of Singapore
17:20-17:40	TueC6.5
<i>Deconvolution of Medical Ultrasound Images Using L1-Norm Optimization and Envelope PSF Estimation (I)</i> , pp. 853-858.	
Yu, Chengpu	School of Electrical and Electronic Engineering, Nanyang Technol
Zhang, Cishen	Faculty of Engineering and Industrial Sciences
Xie, Lihua	Nanyang Tech. Univ.
17:40-18:00	TueC6.6
<i>On Analysis of K-T BLAST for Dynamic MRI (I)</i> , pp. 859-864.	
Jia, Sen	School of Information Science and Tech. Sun Yat-Sen Univ.
Yang, Ran	Sun Yat-Sen Univ.

Technical Program for Wednesday December 21, 2011

WedKP	Gorbea Auditorium
Plenary Session 3 (Plenary Session)	
Chair: Duarte-Mermoud, Manuel A.	Univ. of Chile
08:30-09:30	WedKP.1
<i>Adaptive Control in Rapidly Varying Environments: A New Approach*</i> . Narendra, Kumpati S.	
	Yale Univ.
WedA1	Room 1
Adaptive Control I (Regular Session)	
Chair: Duarte-Mermoud, Manuel A.	Univ. of Chile
Co-Chair: Gutman, Per-Olof	Tech.
10:00-10:20	WedA1.1
<i>Adaptive Following of Perturbed Plants with Input and State Delays</i> , pp. 865-870. Mirkin, Boris	
	Tech.
	Gutman, Per-Olof
	Tech.
10:20-10:40	WedA1.2
<i>L1 Adaptive and Extremum Seeking Control Applied to Roll Parametric Resonance in Ships</i> , pp. 871-876. Breu, Dominik Andreas	
	NTNU
	Fossen, Thor I.
	Norwegian Univ. of Science and Tech.
10:40-11:00	WedA1.3
<i>Indirect Binary Model Reference Adaptive Control</i> , pp. 877-882. Barbosa, Oliveira, Josenalde	
	Agricultural School of Jundiaí
	Teixeira, Leonardo
	Federal Inst. of Education, Science and Tech. of Rio Gr
	Araujo, Aldayr Dantas de
	Federal Univ. of Rio Grande do Norte
11:00-11:20	WedA1.4
<i>Design of Adaptive Laws for Discrete-Time Systems Based on Particle Swarm Optimization</i> , pp. 883-888. Ordóñez-Hurtado, Rodrigo H.	
	Univ. of Chile
	Duarte-Mermoud, Manuel A.
	Univ. of Chile
11:20-11:40	WedA1.5
<i>Synchronization in the Genio-Tesi and Coulet System Using a Fractional-Order Adaptive Controller</i> , pp. 889-894. Fayazi, Ali	
	Vali-e-Asr Univ. of Rafsanjan
	Nabizadeh Rafsanjani, Hamed
	Vali-e-Asr Univ. of Rafsanjan
11:40-12:00	WedA1.6
<i>Design and Stability Analysis of a Variable Structure Adaptive Pole Placement Controller for First Order Systems</i> , pp. 895-900. das Chagas da Silva Junior, Francisco	
	Federal Inst. of Education, Science and Tech. of Rio Gr
	Barbosa, Oliveira, Josenalde
	Agricultural School of Jundiaí
	Araujo, Aldayr Dantas de
	Federal Univ. of Rio Grande do Norte
WedA2	Room 2
Filters and Filtering (Regular Session)	
Chair: Kang, Wei	Naval Postgraduate School
Co-Chair: Barbosa, Karina A.	Univ. de Santiago de Chile

10:00-10:20	WedA2.1
<i>Discrete Time Invariant Linear Minimax Filtering</i> , pp. 901-906. Krener, Arthur J	
	Naval Postgraduate School
	Kang, Wei
	Naval Postgraduate School
10:20-10:40	WedA2.2
<i>L₂-L_∞ Filtering for Discrete-Time Switched State-Delay Systems under Asynchronous Switching</i> , pp. 907-912. Zheng, Yan	
	City Univ. of Hong Kong
	Feng, Gang
	City Univ. of Hong Kong
10:40-11:00	WedA2.3
<i>State Estimation Algorithms with Guaranteed Confidence Intervals for First Order Systems</i> , pp. 913-918. Weyer, Erik	
	Univ. of Melbourne
	Campi, M. C.
	Univ. di Brescia
11:00-11:20	WedA2.4
<i>Case Study of Unscented State Estimation for Batch Distillation Processes</i> , pp. 919-924. Miranda, Moira	
	Univ. of Los Andes
	Edelmayer, András
	Computer and Automation Res. Inst. Hungarian Acad. of
11:20-11:40	WedA2.5
<i>Filters for Mobile Robots: EKF, UKF and Sensor Switching – Experimental Results</i> , pp. 925-930. D'Alfonso, Luigi	
	Univ. della Calabria
	Lucia, Walter
	Univ. della Calabria
	Muraca, Pietro
	Univ. della Calabria
	Pugliese, Paolo
	Univ. della Calabria
11:40-12:00	WedA2.6
<i>Robust H_∞ Filtering for Descriptor System with Deterministic and Stochastic Uncertainties</i> , pp. 931-936. Barbosa, Karina A.	
	Univ. de Santiago de Chile
WedA3	Room 3
Optimal Control (Regular Session)	
Chair: Fakharian, Ahmad	Islamic Azad Univ. Branch
Co-Chair: Lagos, Carolina	Univ. de Santiago de Chile
10:00-10:20	WedA3.1
<i>Hybrid Powertrain Control Using Optimization and Cycle Based Predictive Control Algorithms</i> , pp. 937-944. Mayr, Christian H.	
	Vienna Univ. of Tech.
	Fleck, Andreas
	Vienna Univ. of Tech.
	Jakubek, Stefan M.
	Vienna Univ. of Tech. Austria
10:20-10:40	WedA3.2
<i>Optimal Synthesis and Normality of the Maximum Principle for Optimal Control Problems with Pure State Constraints</i> , pp. 945-950. Frankowska, Helene	
	CNRS, Univ. Pierre et Marie Curie
	Mazzola, Marco
	Univ. Pierre et Marie Curie (Paris 6)
10:40-11:00	WedA3.3
<i>Partially Observed Stochastic Bilinear System Control</i> , pp. 951-956. Tenno, Robert	
	Aalto Univ. School of Science and of Tech.
	Nomm, Sven
	Inst. of Cybernetics at TUT
11:00-11:20	WedA3.4
<i>Control of a Five-Phase Synchronous Motors with Third Harmonic Constrained Injection</i> , pp. 957-962.	

Fei, Marco	Univ. of Modena and Reggio Emilia
Zanasi, Roberto	Univ. of Modena and Reggio Emilia
11:20-11:40	WedA3.5
<i>Modeling of the Flow in Wind Farms for Total Power Optimization</i> , pp. 963-968.	
Torres, Patricio	Delft Univ. of Tech.
van Wingerden, Jan-Willem	Delft Univ. of Tech.
Verhaegen, Michel	Delft Univ. of Tech.
11:40-12:00	WedA3.6
<i>A New Approach on H^∞ Control of Linear Singular Perturbation Systems</i> , pp. 969-973.	
Fakharian, Ahmad	Islamic Azad Univ. Branch
Gustafsson, Thomas	Luleå Univ. of Tech.
Yousefi Azar Khanian, Mahdi	Islamic Azad Univ. Branch
WedA4	Room 4
Fuzzy and Neural Systems (Regular Session)	
Chair: Orchard, Marcos E.	Univ. de Chile
Co-Chair: Yu, Wen	CINVESTAV-IPN
10:00-10:20	WedA4.1
<i>Simulation-Based Parameter Identification of a Reduced Model Using Neural Networks</i> , pp. 974-978.	
Nassef, Mohamed Galal	Univ. of Bremen
Schenck, Christian	Bremen Inst. for mechanical engineering (bime), Univ. o
Kuhfuss, Bernd	Bremen Inst. for mechanical engineering (bime), Univ. o
10:20-10:40	WedA4.2
<i>Modeling and Neuro Control for Multicomponent Nonideal Distillation Column</i> , pp. 979-984.	
Li, Xiaou	CINVESTAV-IPN
Yu, Wen	CINVESTAV-IPN
10:40-11:00	WedA4.3
<i>Development of Static Neural Networks As Full Predictors or Controllers for Multi-Articulated Mobile Robots in Backward Movements – New Models and Too</i> , pp. 985-990.	
Ferreira, Edson	Federal Univ. of Espirito Santo
Miranda, Victor	Univ. Federal do Espirito Santo
11:00-11:20	WedA4.4
<i>Full Neural Predictors, with Fixed Time Horizon, for a Truck-Trailer-Trailer Prototype of a Multi-Articulated Robot, in Backward Movements – Singular Conditions and Critical Angles</i> , pp. 991-996.	
Ferreira, Edson	Federal Univ. of Espirito Santo
Miranda, Victor	Univ. Federal do Espirito Santo
11:20-11:40	WedA4.5
<i>Design and Validation of a Fuzzy Longitudinal Controller Based on a Vehicle Dynamic Simulator</i> , pp. 997-1002.	
Cabello, Felipe	Univ. de Chile
Acuña, Alexis	Univ. de Chile
Vallejos, Paul	Univ. de Chile
Orchard, Marcos E.	Univ. de Chile
Ruiz del Solar, Javier	Univ. de Chile
11:40-12:00	WedA4.6
<i>Robust Takagi-Sugeno Fuzzy Model Based Control Design</i> , pp.	

1003-1008.	
Silva, Joabe	Federal Univ. of Maranhão
Serra, Ginalber Luiz	Federal Inst. of Maranhão

WedB1	Room 1
Adaptive Control II (Regular Session)	
Chair: Langlois, Nicolas	IRSEEM / ESIGELEC
Co-Chair: Duarte-Mermoud, Manuel A.	Univ. of Chile
13:30-13:50	WedB1.1
<i>On Implementing Passivity in Discrete Linear Systems</i> , pp. 1009-1014.	
Barkana, Itzhak	BARKANA Consulting
Weiss, Haim	RAFAEL
Rusnak, Ilan	RAFAEL
13:50-14:10	WedB1.2
<i>Adaptive Synchronization of Fractional Order Systems of the Lorenz Type</i> , pp. 1015-1020.	
Delgado-Aguilera, Efredy	Univ. OF CHILE,
Duarte-Mermoud, Manuel A.	Univ. of Chile
14:10-14:30	WedB1.3
<i>Two Structures for Resource Constrained Control Systems with Output Feedback</i> , pp. 1021-1026.	
Steffen, Thomas	Univ. of Kaiserslautern
Litz, Lothar	Univ. of Kaiserslautern
14:30-14:50	WedB1.4
<i>Adaptive Control for Power Management</i> , pp. 1027-1032.	
Luiz, Saulo O. D.	UFCG
Perkusich, Angelo	UFCG
Lima, A. M. N.	UFCG
14:50-15:10	WedB1.5
<i>An Adaptive Hinf Control Design for Exercise-Independent Human Heart Rate Regulation System</i> , pp. 1033-1036.	
Baig, Dur-e-Zehra	Univ. of New South Wales
Javed, Faizan	Univ. OF NEW SOUTH WALES
Savkin, Andrey V.	Univ. of New South Wales
Celler, Branko	Univ. of Western Sydney
15:10-15:30	WedB1.6
<i>Application of Indirect Adaptive Model Predictive Control Supervised by Fuzzy Logic to a Diesel Generator</i> , pp. 1037-1043.	
Mamboundou, Jerry	IRSEEM
Langlois, Nicolas	IRSEEM / ESIGELEC

WedB2	Room 2
Signal Processing (Regular Session)	
Chair: Muraca, Pietro	Univ. della Calabria
Co-Chair: Quevedo, Daniel E.	The Univ. of Newcastle
13:30-13:50	WedB2.1
<i>On Application of Time-Frequency Analysis to Communication Signal Detection and Estimation</i> , pp. 1044-1048.	
Xu, Zhiming	School of EEE, Nanyang Tech. Univ.
Bi, Guoan	Nanyang Tech. Univ.
Li, Xiumei	School of Information, Science and Engineering, HangZhouNormal U

13:50-14:10	WedB2.2
<i>Analysis of Sidelobe Effects and Resolution of PTFT</i> , pp. 1049-1054.	
Wang, Lu	School of EEE, Nanyang Tech. Univ.
Bi, Guoan	Nanyang Tech. Univ.
Lv, Xiaolei	School of EEE, Nanyang Tech. Univ.

14:10-14:30	WedB2.3
<i>Sparse Command Generator for Remote Control</i> , pp. 1055-1059.	
Nagahara, Masaaki	Kyoto Univ.
Quevedo, Daniel E.	The Univ. of Newcastle
Ostergaard, Jan	Aalborg Univ.
Matsuda, Takahiro	Osaka Univ.
Hayashi, Kazunori	Kyoto Univ.

14:30-14:50	WedB2.4
<i>An Adaptive Quasi-Notch Filter for a Biased Sinusoidal Signal Estimation</i> , pp. 1060-1065.	
Fedele, Giuseppe	Univ. della Calabria
Ferrise, Andrea	Univ. della Calabria, Dip. Elettronica, Informatica e Siste
Muraca, Pietro	Univ. della Calabria

14:50-15:10	WedB2.5
<i>Quantification of Valve Stiction and Dead Band in Control Loops Based on Harmonic Balance Method</i> , pp. 1066-1073.	
Araujo, Alancardek	Federal Univ. of Espirito Santo
Munaro, Celso Jose	Federal Univ. of Espirito Santo
Rosado Filho, Moacir	Federal Univ. of Espirito Santo

15:10-15:30	WedB2.6
<i>Finite Element Method Analysis of the Inner Fed Inductor Motor</i> , pp. 1074-1078.	
Peng, Yanqing	Xiamen Univ.
Zhang, Ji	Xiamen Univ. of Tech.
Sun, Zuming	Tiandi Science & Tech. Co.,LTD
Chen, Zhenshan	Xiamen Univ.
Luo, Jian	Xiamen Univ.

WedB3	Room 3
Optimal Control and Applications (Regular Session)	
Chair: Singhose, William E.	Georgia Inst. of Tech.
Co-Chair: Saez, Doris	Univ. de Chile

13:30-13:50	WedB3.1
<i>MIMO Controller Design for Decoupling Aircraft Lateral Dynamics</i> , pp. 1079-1084.	
Keviczky, Laszlo	Hungarian Acad. of Sciences
Banyasz, Csilla	Hungarian Acad. of Sciences

13:50-14:10	WedB3.2
<i>Optimal Control of Indirect Matrix Converter Based Microturbine Generation System</i> , pp. 1085-1090.	
Andrade Romero, Javier Alexis	Federal Univ. of ABC
Andrade Romero, Jesus Franklin	Federal Univ. of ABC
Rafikov, Marat	Federal Univ. of ABC

14:10-14:30	WedB3.3
<i>Feasibility Study for Implementing Model Based Predictive Control in a Programmable Electronic Device</i> , pp. 1091-1096.	

Celi, Miguel R.	Univ. Simón Bolívar
de Prada, Cesar	Univ. of Valladolid VAT.: ES-Q-4718001-C
Villegas, Thamara	Simon Bolivar Univ.
Sarabia, Daniel	Univ. of Valladolid
Aguilera, Asdrubal	Simon Bolivar Univ.

14:30-14:50	WedB3.4
<i>Filtering Effects on Input-Shaped Command Signals for Effective Crane Control</i> , pp. 1097-1101.	
Ragunathan, Sudarshan	Arizona State Univ.
Frakes, David	Arizona State Univ.
Peng, Kelvin Chen Chih	Georgia Inst. of Tech.
Singhose, William E.	Georgia Inst. of Tech.

14:50-15:10	WedB3.5
<i>Two Dimensional Recursive Optimal Smoothing of Gaussian Random Fields</i> , pp. 1102-1107.	
Carravetta, Francesco	Consiglio Nazionale delle Ricerche
White, Lang	Univ. of Adelaide

15:10-15:30	WedB3.6
<i>Multivariable H^∞ Model Matching Control of a Heat Exchanger Network (HEN) with Bypasses</i> , pp. 1108-1113.	
Delatore, Fabio	Univ. de São Paulo - USP / Escola Pol.
Leonardi, Fabrizio	Centro Univ. da FEI
Novazzi, Luis	Centro Univ. da FEI
Cruz, José Jaime	Univ. de São Paulo - USP / Escola Pol.

WedB4	Room 4
Process Control (Regular Session)	
Chair: Previdi, Fabio	Univ. degli Studi di Bergamo
Co-Chair: Licéaga-Castro, Jesús Ulises	UAM Azcapotzalco

13:30-13:50	WedB4.1
<i>Control of Supersaturation in Batch Cooling Crystallization by Robust State Feedback Linearization</i> , pp. 1114-1120.	
Vissers, Jochem	Eindhoven Univ. of Tech.
Jansen, Pieter	Eindhoven Univ. of Tech.
Weiland, Siep	Eindhoven Univ. of Tech.

13:50-14:10	WedB4.2
<i>On Computing Parameters to Find Direction of Disturbance Propagation Using Transfer Entropy Method</i> , pp. 1121-1126.	
Marques, Vinicius	Federal Univ. of the Espirito Santo
Munaro, Celso Jose	Federal Univ. of Espirito Santo

14:10-14:30	WedB4.3
<i>Designing Simple Robust and Performance-Oriented Controllers for Induction Motors Using Classical Control Tools</i> , pp. 1127-1132.	
Amezquita-Brooks, Luis	Inst. Tecnológico y de Estudios Superiores de Monterrey-Salt
Licéaga-Castro, Jesús Ulises	UAM Azcapotzalco
Licéaga-Castro, Eduardo	SEPI ESIMI Ticomán IPN
Hernandez-Alcantara, Diana	Inst. Tecnológico y de Estudios Superiores de Monterrey-Salt

14:30-14:50	WedB4.4
<i>Robust Predictive Controller of the Mold Level in a Steel Continuous Casting Process</i> , pp. 1133-1138.	

Sanchotene, Fábio	Arcelo Mittal
de Almeida, Gustavo	Inst. Federal de Educação - Serra
Salles, José Leandro	Federal Univ. of espírito Santo
14:50-15:10	WedB4.5
<i>A Low Cost, Scalable, Virtual Laboratory</i> , pp. 1139-1144.	
Arora, Inderpreet	IIT Bombay
Moudgalya, Kannan M.	I.I.T. Bombay
Venkata, Kaushik	IIT Bombay
Victor, Chakraborty	IIT Bombay
Rokade, Rupak	IIT Bombay
R., Rakhi	IIT Bombay
15:10-15:30	WedB4.6
<i>Closed-Loop Control of a Vibrant Duct Gravimetric Feeder</i> , pp. 1145-1150.	
Cologni, Alberto	Dipartimento di Ingegneria dell'Informazione e Metodi Matematici
Belloli, Damiano	Dipartimento di Elettronica e Informazione, Pol. di Milan
Madaschi, Matteo	Dipartimento di Ingegneria dell'Informazione e Metodi Matematici
Previdi, Fabio	Univ. degli Studi di Bergamo
Savaresi, Sergio M.	Pol. Di Milano
Cazzola, Daniele	Doteco spa

WedC1	Room 1
Nonlinear Control and Applications II (Regular Session)	
Chair: Ponce, Enrique	E. T. S. Ingenieros Univ. Sevilla
Co-Chair: Perez, Jose Ricardo	Pontificia Univ. Católica de Chile
16:00-16:20	WedC1.1
<i>Improved Servomechanism Control Design - Dynamically Damped Case</i> , pp. 1151-1155.	
Salton, Aurélio Tergolina	The Univ. of Newcastle, Australia
Chen, Zhiyong	The Univ. of Newcastle
Fu, Minyue	Univ. of Newcastle
16:20-16:40	WedC1.2
<i>Practical Stability of Continuous-Time Switched Systems without a Common Equilibria and Governed by a Time-Dependent Switching Signal</i> , pp. 1156-1161.	
Kuiava, Roman	Federal Univ. of Parana (UFPR)
Ramos, Rodrigo Andrade	Univ. of Sao Paulo/Engineering School of Sao Carlos
Pota, Hemanshu R.	Univ. of New South Wales
Alberto, Luis Fernando Costa	Escola De Engenharia De Sao Carlos - Univ. DeSaoPaulo
16:40-17:00	WedC1.3
<i>A Fuzzy PD-PI Control Strategy to Track the Voltage References of Photovoltaic Arrays</i> , pp. 1162-1167.	
Moçambique, Nilton Eufrazio	Univ. of São Paulo -São Carlos School of Engineering
Machado, Ricardo	Univ. of São Paulo
Oliveira, Vilma A.	Univ. de Sao Paulo
17:00-17:20	WedC1.4
<i>Rate-Limiter Stability Analysis Comparing Bifurcation and LMI-Based Approaches</i> , pp. 1168-1173.	
Bombieri, Eduardo	Univ. Federal de Santa Catarina
Pagano, Daniel Juan	Univ. Federal de Santa Catarina

Ponce, Enrique	E. T. S. Ingenieros Univ. Sevilla
17:20-17:40	WedC1.5
<i>H-Infinity Gain Scheduling Design for the Meridian UAS for a Broader Range of Operation and for Fault Tolerant Applications</i> , pp. 1174-1180.	
Garcia, Gonzalo	Univ. of Kansas
Keshmiri, Shah	Univ. of Kansas
Colgren, Richard	Univ. of Kansas
17:40-18:00	WedC1.6
<i>On the Parametric Analysis of Complex Switching Relay Control Systems</i> , pp. 1181-1188.	
Guedes, Fabiano Maximiano	Inst. Tecnológico de Aeronáutica
Kienitz, Karl Heinz	Inst. Tecnológico de Aeronautica

WedC2	Room 2
Discrete Event Systems (Regular Session)	
Chair: Markovski, Jasen	Eindhoven Univ. of Tech.
Co-Chair: Tang, Liang	Impact Tech. LLC.
16:00-16:20	WedC2.1
<i>A Case Study on Timed Supervisory Control on a Linear Cluster Tool Using Aggregated Timed Synthesis</i> , pp. 1189-1194.	
Swartjes, Lennart	Eindhoven Univ. of Tech.
Su, Rong	Nanyang Tech. Univ.
Rooda, J.E.	Eindhoven Univ. of Tech.
16:20-16:40	WedC2.2
<i>Towards Supervisory Control of Interactive Markov Chains: Plant Minimization</i> , pp. 1195-1200.	
Markovski, Jasen	Eindhoven Univ. of Tech.
16:40-17:00	WedC2.3
<i>Synthesis of Timed Petri Net Models for On-Line Identification of Discrete Event Systems</i> , pp. 1201-1206.	
Meda-Campana, Maria-Elena	Univ. of Guadalajara
Medina-Vazquez, Santiago	Univ. of Guadalajara
17:00-17:20	WedC2.4
<i>On the Analysis of Safety Specifications Using LTL for a Class of Discrete Event Controllers Applied to Manufacturing Systems</i> , pp. 1207-1212.	
Molina, Javier	Centro de Investigación y de Estudios Avanzados del Inst. Po
Sanchez, Arturo	Centro de Investigacion y de Estudios Avanzados del IPN
17:20-17:40	WedC2.5
<i>Further Results on Stability of Linear Discrete Time Delay Systems Over a Finite Time Interval: Novel Delay-Independent Conditions</i> , pp. 1213-1218.	
Debeljkovic, Dragutin	Univ. of Belgrade, School of mechanical Engineering
Buzurovic, Ivan	Thomas Jefferson Univ.
Stojanovic, Sreten	Univ. of Nis, Faculty of Tech.
Popov, Dejan	Univ. of Belgrade, School of Mechanical Engineering, Belgr
Nestorovic, Tamara	Ruhr-Univ. Bochum, Germany
17:40-18:00	WedC2.6
<i>Stability Analysis for Piecewise Homogeneous Planar Systems</i> , pp. 1219-1224.	
Nishiyama, Satoshi	Tokyo Inst. of Tech.
Hayakawa, Tomohisa	Tokyo Inst. of Tech.

WedC3	Room 3
Intelligent Control (Regular Session)	
Chair: Wang, Jianliang	Nanyang Tech. Univ.
16:00-16:20	WedC3.1
<i>Fuzzy Frequency Response Estimation from Experimental Data: Definition and Application in Mechanical Structures of Aircraft and Aerospace Vehicles</i> , pp. 1225-1230.	
Ferreira, Carlos Cesar	Federal Inst. of Education, Science and Tech.
Serra, Ginalber Luiz	Federal Inst. of Maranhão
16:20-16:40	WedC3.2
<i>Capability of Two-Stage Compensator Designs</i> , pp. 1231-1236.	
Mori, Kazuyoshi	The Univ. of Aizu
16:40-17:00	WedC3.3
<i>Control of Interactive Computer Graphics Rendering Process</i> , pp. 1237-1242.	
Wong, Gabriyel	Nanyang Tech. Univ.
Wang, Jianliang	Nanyang Tech. Univ.
17:00-17:20	WedC3.4
<i>Fractional Order Fuzzy Sliding Mod Controller for Robotic Flexible Joint Manipulators</i> , pp. 1243-1248.	
Fayazi, Ali	Vali-e-Asr Univ. of Rafsanjan
Nabizadeh Rafsanjani, Hamed	Vali-e-Asr Univ. of Rafsanjan
17:20-17:40	WedC3.5
<i>Nonlinear Modeling of Hysteresis in Piezoelectric Actuators</i> , pp. 1249-1253.	
Dong, Ruili	Shanghai Normal Univ.
Tan, Yonghong	Shanghai Normal Univ.
17:40-18:00	WedC3.6
<i>Adaptive Fuzzy Controller for a Class of Strict-Feedback Nonaffine Nonlinear System</i> , pp. 1254-1259.	
Wen, Jie	Nanjing Univ. of Aeronautics and Astronautics
WedC4	Room 4
Process Control & Instrumentation (Regular Session)	
Chair: Lefranc, Gaston	Pontificia Univ. Catolica de Valparaiso, Chile
Co-Chair: Sbarbaro, Daniel G.	Univ. de Concepcion
16:00-16:20	WedC4.1
<i>Estimation of Lipid Accumulation in Microalgae with Dynamic Interval Observers</i> , pp. 1260-1265.	
Mairet, Francis	Univ. Técnica Federico Santa María
Moisan, Marcelo	EMEL
Bernard, Olivier	Inria
16:20-16:40	WedC4.2
<i>Modelization and Identification of the Hot Blast Stove's Heating Cycle</i> , pp. 1266-1272.	
Flen, Tomas	Pontificia Univ. Catolica de Valparaiso
Benedetti, Rodrigo	Compania Siderurgica Huachipato
Guidi, Franco	Pontificia Univ. Catolica de Valparaiso
Lefranc, Gaston	Pontificia Univ. Catolica de Valparaiso, Chile

16:40-17:00	WedC4.3
<i>Machine Vision Applications and Development Aspects</i> , pp. 1273-1277.	
Fernandes, Antonio O.	Univ. Federal de Minas Gerais
Moreira, Luiz F. E.	Invent Vision Sistemas de Imagem e Visão
Mata, Jose M.	Univ. Federal de Minas Gerais
17:00-17:20	WedC4.4
<i>On Frequency Detection and Root Cause Analysis of Plant-Wide Oscillations Via ACF Method</i> , pp. 1278-1285.	
Depizzol, Cleber Fabiano	Federal Univ. of Espírito Santo
Munaro, Celso Jose	Federal Univ. of Espírito Santo
17:20-17:40	WedC4.5
<i>Observer Design for Neutralization Processes with Wiener Structure and Implicit Output Map</i> , pp. 1286-1290.	
Glaria Lopez, Tomas Angel	Univ. de Concepcion
Sbarbaro, Daniel G.	Univ. de Concepcion
17:40-18:00	WedC4.6
<i>Extended Condensate Torque Estimation Considering the Starting Time of Dryer Section of Paper Machines</i> , pp. 1291-1297.	
Ramirez Arias, Guillermo	Univ. of Concepcion
Valenzuela Latorre, M. Anibal	Univ. of Concepcion
WedD1	Room 1
Virtual Session (Interactive Session)	
18:00-18:00	WedD1.1
<i>Asymptotic Tracking Adaptive Control of NARMA Systems with Periodic Uncertainties (I)</i> , pp. 1298-1303.	
Yang, Chenguang	Univ. of Plymouth
Ma, Hongbin	Beijing Inst. of Tech.
Chai, Senchun	beijing Inst. of Tech.
18:00-18:00	WedD1.2
<i>Shape Prior Based Foreground Segmentation with Local Rotation and Structural Changes</i> , pp. 1304-1309.	
Wu, Xiaojun	Shenzhen Graduate School, Harbin Inst. of Tech.
Chen, Jia	Shenzhen Graduate School, Harbin Inst. of Tech.
Wang, Michael Yu	Chinese Univ. of Hong Kong
Wang, Xiongwei	Shenzhen Graduate School, Harbin Inst. of Tech.
18:00-18:00	WedD1.3
<i>A Multiple Target Detection Algorithm Based on Imperialist Competitive Algorithm</i> , pp. 1310-1314.	
Rismanbor, Mohammad	Qazvin Islamic Azad Univ.
Faez, Karim	Amirkabir Univ. of Tech.
18:00-18:00	WedD1.4
<i>Group Decision-Making Retrieval Based Multi-Objective Evaluation Optimizing Setting Method</i> , pp. 1315-1318.	
Zhang, Chun-xiao	Beijing Univ. of Tech.
Yan, Ai-jun	Beijing Univ. of Tech.
Xu, Zhe	Beijing Univ. of Tech.
Wang, Pu	Beijing Univ. of Tech.
18:00-18:00	WedD1.5
<i>Decentralized Adaptive Tracking with One-Step-Guess Estimator (I)</i> , pp. 1319-1324.	

Rong, Lihua	Beijing Inst. of Tech.
Ma, Hongbin	Beijing Inst. of Tech.
Yang, Chenguang	Univ. of Plymouth
Wang, Meiling	Beijing Inst. of Tech.
18:00-18:00	WedD1.6
<i>Three-Robot Minimum-Time Optimal Line Formation (I)</i> , pp. 1325-1330.	
Wang, Meiling	Beijing Inst. of Tech.
Jia, Zhenchao	Beijing Inst. of Tech.
Ma, Hongbin	Beijing Inst. of Tech.
Fu, Mengyin	Beijing Inst. of Tech.
18:00-18:00	WedD1.7
<i>Dynamic Neural Network Based Networked Predictive Control for Networked Control Systems (I)</i> , pp. 1331-1335.	
Chai, Senchun	beijing Inst. of Tech.
Dong, Lijing	Beijing Inst. of Tech.
Zhang, Baihai	Beijing Inst. of Tech.
18:00-18:00	WedD1.8
<i>MicroRNA Target Validation by Formal Methods (I)</i> , pp. 1336-1341.	
Yang, Yang	National Univ. of Singapore
Xiang, Cheng	National Univ. of Singapore
Lin, Hai	National Univ. of Singapore
18:00-18:00	WedD1.9
<i>Frequency-Shaping Optimal Compensation of Low Fly-Height Vibration in High Density HDD Servo Systems</i> , pp. 1342-1347.	
Xu, Jian-Xin	National Univ. of Singapore
Huang, Deqing	National Univ. of Singapore
Venkataramanan, Venkatakrishnan	A* Star, Data Storage Inst. Singapore
Huynh, The Cat Tuong	National Univ. of Singapore
18:00-18:00	WedD1.10
<i>Stability Analysis of Systems with Stochastic Parametric Uncertainties (I)</i> , pp. 1348-1353.	
Lian, Jie	Dalian Univ. of Tech.
Li, Xiaoyang	National Univ. of Singapore
Lin, Hai	National Univ. of Singapore
18:00-18:00	WedD1.11
<i>Real Coded GA-Based SVM for Motor Imagery Classification in a Brain-Computer Interface (I)</i> , pp. 1354-1358.	
Bamdadian, Atieh	National Univ. of Singapore
Guan, Cuntai	Inst. for Infocomm Res.
Ang, Kai Keng	Inst. for Infocomm Res. A*STAR
Xu, Jian-Xin	National Univ. of Singapore

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