**ThA06**

**Networked Control Systems (Regular CCA Session)**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:50-09:10</td>
<td>ThA06.2</td>
<td>State Estimation of Complex Oscillatory System with Uniform Quantization under Data Rate Constraints, pp. 865-870.</td>
<td>Andrievsky, Boris et al.</td>
<td>Inst. for Problems of Mechanical Engineering of RAS</td>
</tr>
<tr>
<td>09:10-09:30</td>
<td>ThA06.3</td>
<td>Safe and Secure Wireless Networked Control Systems, pp. 871-878.</td>
<td>Taylor, James H. et al.</td>
<td>Univ. of New Brunswick, ABB AB Res. &amp; Development, Enterasys Networks, ABB AB Res. &amp; Development</td>
</tr>
<tr>
<td>09:30-09:50</td>
<td>ThA06.4</td>
<td>Optimal Self-Triggering for Nonlinear Systems Via Approximate Dynamic Programming, pp. 879-884.</td>
<td>Tolic, Domagoj et al.</td>
<td>Univ. of New Mexico, Univ. of New Mexico, Duke Univ.</td>
</tr>
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<td>&quot;Pol. Univ. of Timisoara, Faculty of Automation and C</td>
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<td>&quot;Pol. Univ. of Timisoara, Faculty of Automation and C</td>
</tr>
<tr>
<td>10:10-10:30</td>
<td>ThA06.6</td>
<td>Networked Control Strategies for a 3 Dimensional Crane, pp. 891-896.</td>
<td>Hanchevici, Adrian-Bogdan et al.</td>
<td>Univ. Pol. of Bucharest, Univ. Pol. Bucharest</td>
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</tbody>
</table>

* "Pol. Univ. of Timisoara, Faculty of Automation and C
ThA07 Room G

Observer Design (Regular CCA Session)

Chair: Shafai, Bahram
Co-Chair: Murao, Toshiyuki

08:30-08:50 ThA07.1
Wang, Haoping Nanjing Univ. of Science and Tech.
Christov, Nicolai Lille Univ. of Science and Tech.
Vasseur, Christian Univ. des Sciences et Tech. de Lille

08:50-09:10 ThA07.2
Visual Motion Observer-Based Stabilizing Receding Horizon Control Via Obstacle Avoidance Navigation Function, pp. 903-909.
Murao, Toshiyuki Advanced Inst. of Industrial Tech.
Kawai, Hiroyuki Kanazawa Inst. of Tech.
Fujita, Masayuki Tokyo Inst. of Tech.

09:10-09:30 ThA07.3
Design of PI Observer for Bilinear Systems with Unknown Input Disturbance, pp. 910-915.
Shafai, Bahram Northeastern Univ.
Cheng, Yongfang Northeastern Univ.

09:30-09:50 ThA07.4
Multi-Model Observer for Position Estimation and Object Contact Detection of a Flexible Robotic Actuator, pp. 916-921.
Huard, Benoit CEA, LIST
Grossard, Mathieu CEA LIST Interactive Robotics Lab.
Moreau, Sandrine LAII-ESIP
Poinot, Thierry Ec. Nationale Supérieure d'Ingénieurs de Poitiers

09:50-10:10 ThA07.5
Observer Design for a Class of Wave Equation Driven by an Unknown Periodic Input, pp. 922-926.
Chauvin, Jonathan IFP

ThPL

Bio-Inspired Flying Robots (Plenary Session)

Chair: Kovacic, Zdenko
Co-Chair: Gazi, Veysel

11:00-12:00 ThPL.1
Bio-Inspired Flying Robots*.
Florenano, Dario

ThB01 Room A

Coordination and Sensor Networks (Regular ISIC Session)

Chair: Ahn, Hyo-Sung
Co-Chair: Anderson, Brian D.O.

13:30-13:50 ThB01.1
Dynamical Behavior, Cost and Magic Number in Average Consensus, N/A
Ji, Yiming The Australian National Univ. Australia
Yu, CHANGBIN (Brad) The Australian National Univ.
Anderson, Brian D.O. Australian National Univ.

13:50-14:10 ThB01.2
Managing Interference for Stabilization Over Wireless Channels, N/A
Bilal, Ibrahim Royal Inst. of Tech. (KTH), Sweden
Zaidi, Ali Abbas Royal Inst. of Tech. (KTH), Sweden
Oechtering, Tobias J. Royal Inst. of Tech. (KTH)
Skoglund, Mikael Royal Inst. of Tech.

14:10-14:30 ThB01.3
Output Synchronization of Multi-Machine Power System Using Dissipative Hamiltonian Realization, N/A

Lee, Seung-Ju  
Ahn, Hyo-Sung  
GIST

14:30-14:50  
ThB01.4

Kalman Filtering in Mobile Consensus Networks, N/A

Haumann, Dominik  
Wahrburg, Arne  
Tech. Univ. Darmstadt  
TU Darmstadt

14:50-15:10  
ThB01.5

Control of Inter-Agent Distances in Cyclic Polygon Formations, N/A

Park, Myoung-Chul  
Ahn, Hyo-Sung  
GIST  
Gwangju Inst. of Science and Tech. (GIST)

14:30-15:10  
ThB02

Control Applications II (Regular CCA Session)

Chair: Jugo, Josu  
Univ. del Pais Vasco

Co-Chair: Mercorelli, Paolo  
Leuphana Univ. of Lüneburg

13:30-13:50  
ThB02.1


Hovgaard, Tobias Gybel  
Larsen, Lars Finn Sloth  
Skovrup, Morten Juel  
Jorgensen, John Bagterp  
Vestas Tech. R&D  
Vestas A/S  
IPU Tech. Development  
Tech. Univ. of Denmark

13:50-14:10  
ThB02.2


Sahyoun, Samir  
Nelson, Cale  
Djouadi, Seddik, M.  
Kurugunti, Teja  
Univ. of Tennessee  
Univ. of Tennessee  
Univ. of Tennessee  
Oak Ridge National Lab.

14:10-14:30  
ThB02.3

Event-Based Temperature Control System in a Penning-Type Ion Source, pp. 968-973.

Eguiraun, Mikel  
Jugo, Josu  
Univ. Basque Country, UPV/EHU

14:30-14:50  
ThB02.4

Nonlinear Control of an Electro-Magnetic Actuator under Highly Dynamic Disturbances, pp. 974-979.

Schwarzgruber, Thomas  
Trogmann, Hannes  
Passenbrunner, Thomas Ernst  
Fizek, Sebastian  
Dolovai, Peter  
Johannes Kepler Univ. Linz  
Johannes Kepler Univ. Linz  
Johannes Kepler Univ. Linz  
JKU Linz  
Tech. Univ. of Vienna

14:50-15:10  
ThB02.5

A Switching Kalman Filter for Sensorless Control of a Hybrid Hydraulic Piezo Actuator Using MPC for Camless Internal Combustion Engines, pp. 980-985.

Mercorelli, Paolo  
Leuphana Univ. of Lüneburg

15:10-15:30  
ThB02.6


Soleimanzadeh, Maryam  
Wisniewski, Rafal  
Aalborg Univ.

14:30-15:10  
ThB03

System Identification (Regular CCA Session)

ThB03
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<td>13:30-13:50</td>
<td>ThB03.1</td>
<td>Closed-Loop Frequency-Based Identification Method for Wiener Type Plants with a Transport Delay Using a Relay Feedback</td>
<td>Hanjačić, Selma and Jurić, Željko</td>
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<td>13:50-14:10</td>
<td>ThB03.2</td>
<td>Sequential Matrix Rank Minimization Approach to Signal Recovery Based on Subspace System Identification</td>
<td>Konishi, Katsumi and Kawaguchi, Ryo</td>
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<tr>
<td>14:10-14:30</td>
<td>ThB03.3</td>
<td>An Adaptive Approximation Method for Hammerstein Systems Identification</td>
<td>Cornoiu, Mihai and Necoara, Ion</td>
</tr>
<tr>
<td>14:30-14:50</td>
<td>ThB03.4</td>
<td>Trapezoidal Rule for Numerical Evaluation of Fractional Order Integrals with Applications to Simulation and Identification of Fractional Order Systems</td>
<td>Rapaic, Milan R. and Pisano, Alessandro</td>
</tr>
<tr>
<td>14:50-15:10</td>
<td>ThB03.5</td>
<td>Identification of Distributed-Parameter Systems with Missing Data</td>
<td>Hidayat, Zulkifli, Nuñez, Alfredo, Babuska, R., and De Schutter, Bart</td>
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**ThB04 Room D**

**Robotics II (Regular CCA Session)**

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<tbody>
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<td>13:30-13:50</td>
<td>ThB04.1</td>
<td>Active Damping Strategy for Robust Control of a Flexible-Joint Lightweight Robot</td>
<td>Makarov, Maria and Grossard, Mathieu</td>
</tr>
<tr>
<td>13:50-14:10</td>
<td>ThB04.2</td>
<td>Asymmetric Gait for Rimless Wheel with Knee Joints</td>
<td>Harata, Yuji and Asano, Fumihiko</td>
</tr>
<tr>
<td>14:10-14:30</td>
<td>ThB04.3</td>
<td>Elliptical Motion Method for Robust Quadrupedal Locomotion</td>
<td>Mutka, Alan and Petrć, Frano</td>
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<tr>
<td>14:30-14:50</td>
<td>ThB04.4</td>
<td>Stability Principle Underlying Passive Dynamic Walking of Rimless Wheel</td>
<td>Asano, Fumihiko</td>
</tr>
<tr>
<td>14:50-15:10</td>
<td>ThB04.5</td>
<td></td>
<td></td>
</tr>
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</table>
Asano, Fumihiko  
Ohshima, Masataka  
JAIST
15:10-15:30  
ThB04.6

Ycontroller - Open Architecture Controller for Yaskawa Motoman MH5 Robot, pp. 1051-1056.
Mihelj, Matjaz  
Slajpah, Sebastjan  
Čepon, Peter  
Munih, Marko  
Univ. of Ljubljana
15:10-15:30  
ThB04.6

Nonlinear Systems I (Regular CCA Session)
Chair: Chesi, Graziano  
Co-Chair: Purwar, Shubhi  
Univ. of Hong Kong  
M.N. National Inst. of Tech.
13:30-13:50  
ThB05.1

A New Robust Nonlinear Control Algorithm for the Regulation of Blood Glucose in Diabetic Patients, pp. 1057-1061.
Ozyetkin, Munevver Mine  
Nath, Nitendra  
Tatlicioglu, Enver  
Dawson, Darren M.  
Inonu Univ.  
Takata  
Izmir Inst. of Tech.  
Clemson Univ.
13:50-14:10  
ThB05.2

Nonlinear Optimal Muscular Control of Human Posture, pp. 1062-1067.
Li, Yao  
Levine, William S.  
Univ. of Southern California  
Univ. of Maryland
14:10-14:30  
ThB05.3

Robust Backstepping Control of Variable Speed Wind Turbines with Permanent Magnet Synchronous Generators, pp. 1068-1073.
Seker, Murat  
Zergeroglu, Erkan  
Tatlicioglu, Enver  
Gebze Inst. of Tech.  
Gebze Inst. of Tech.  
Izmir Inst. of Tech.
14:30-14:50  
ThB05.4

Pratap, Bhanu  
Purwar, Shubhi  
M. N. National Inst. of Tech. Allahabad  
M.N. National Inst. of Tech.
14:50-15:10  
ThB05.5

Zoghlami, Naim  
Beji, Lotfi  
Mlayeh, Rhouma  
Abichou, Azgal  
Univ. of Evry  
Univ. of Evry  
Pol. School of Tunisia  
Ec. Pol. De Tunis
15:10-15:30  
ThB05.6

Robust Domain of Attraction: Computing and Controlling Estimates with Non-Polynomial Lyapunov Functions, pp. 1086-1091.
Chesi, Graziano  
Univ. of Hong Kong
15:10-15:30  
ThB05.6

Power Systems (Regular CCA Session)
Chair: Chauvin, Jonathan  
Co-Chair: Kapoor, Dhruv  
IFP  
Indian Inst. of Tech. Guwahati
13:30-13:50  
ThB06.1

A Feasibility Study into Prognostics for the Main Bearing of a Wind Turbine, pp. 1092-1097.
Butler, Shane  
O’Connor, Frank  
Farran, Des  
NUI Maynooth  
ServusNet Informatics Ltd.  
ServusNet Informatics Ltd.
Building a Knowledge Base to Obtain the Maximum Power Point for a PV Panel, pp. 1098-1103.

Korodi, Adrian

"Pol. Univ. of Timisoara, Faculty of Automation and

14:10-14:30

Drivertrain Control Strategy for Wind Turbines, pp. 1104-1110.

Chauvin, Jonathan

IFP

14:30-14:50

Wind Speed Estimation for Wind Turbine Control, pp. 1111-1117.

Chauvin, Jonathan

IFP Energies Nouvelles

14:50-15:10

Coordinated Control of Multiple HVDC Links Using Backstepping, pp. 1118-1123.

Erdal, Anne Mai

Norwegian Univ. of Science and Tech.

Imsland, Lars

Norwegian Univ. of Science and Tech.

Uhlen, Kjetil

Department of Electric Power Engineering, Norwegian Univ.

15:10-15:30


Kapoor, Dhruv

Sodhi, Paloma

Deb, Dipankar

Indian Inst. of Tech. Guwahasti

Indian Inst. of Tech. Guwahasti

Indian Inst. of Tech. Guwahasti

ThB07

Robust Control (Regular CCA Session)

Chair: Cockburn, Juan C.

Co-Chair: Azhmyakov, Vadim

13:30-13:50

LPV Tracking Control for Economic Management of Ecosystems, pp. 1131-1135.

Macksamie, Kevin

Cockburn, Juan C.

Wagner, Jeffrey

Rochester Inst. of Tech.

Rochester Inst. of Tech.

Rochester Inst. of Tech.

13:50-14:10

Robust Discrete-Time Consensus of Multi-Agent Systems with Uncertain Interaction, pp. 1136-1141.

Han, Dongkun

Chesi, Graziano

Univ. of Hong Kong

Univ. of Hong Kong

14:10-14:30

Robust Stability and H_infinity Control of Uncertain Piecewise Linear Switched Systems with Filippov Solutions, pp. 1142-1147.

Ahmadi, Mohamadreza

Mojalal, Hamed

Wisniewski, Rafal

Izadi-Zamanabadi, Roozbeh

Univ. of Guilan

Univ. of Guilan

Aalborg Univ.

Danfoss A/S

14:30-14:50

Robot PD Control with Parallel/serial Neural Network and Sliding Mode Compensations, pp. 1148-1153.

Hernandez, Debbie

Yu, Wen

Li, Xiaoou

CINVESTAV-IPN

CINVESTAV-IPN

CINVESTAV-IPN

14:50-15:10


Azhmyakov, Vadim

Basin, Michael V.

Gil, Arturo

CINVESTAV

Autonomous Univ. of Nuevo Leon

CINVESTAV
Jezernik, Karel
Univ. of Maribor

ThC01
Intelligent and Networked Control Architectures (Regular ISIC Session)

Chair: Ahn, Hyo-Sung
Co-Chair: Basin, Michael V.
Gwangju Inst. of Science and Tech. (GIST)
Autonomous Univ. of Nuevo Leon

16:00-16:20 Predictive Control of Networked Systems with Communication Delays, N/A
Shi, Peng
Yang, Rongni
Basin, Michael V.
Karimi, Hamid Reza
Univ. of Glamorgan
Univ. of Glamorgan
Autonomous Univ. of Nuevo Leon

16:20-16:40 Multiresolution Wavelet-Based Approach to Identification of Modal Parameters of a Vehicle Full-Scale Crash Test, N/A
Pawlus, Witold
Karimi, Hamid Reza
Robbersmyr, Kjell G.
Univ. of Agder

16:40-17:00 Smart Valve Actuation for Dynamic Fluid Flow Control with Constraints in the Power Unit, N/A
Zanardo, Gabriele
Passenbrunner, Thomas Ernst
Farrokhzad, Babak
Martinez, Carlos
Groedl, Markus
Del Re, Luigi
Johannes Kepler Univ. Linz
Johannes Kepler Univ. Linz
HOERBIGER Automatisierungstechnik Holding GmbH
Hoerbiger Automatisierungstechnik
HOERBIGER Automatisierungstechnik Holding GmbH
Johannes Kepler Univ. Linz

17:00-17:20 Gesture Ontology for Informing Service-Oriented Architectures, N/A
Chera, Catalin Marian
Tsai, Wei-Tek
Vatavu, Radu-Daniel
Pol. Univ. of Bucharest
Arizona State Univ.
Univ. Stefan cel Mare of Suceava

17:20-17:40 Bio-Insect and Artificial Robot Interaction Using Cooperative Reinforcement Learning, N/A
Son, Ji-Hwan
Ahn, Hyo-Sung
GIST
Gwangju Inst. of Science and Tech. (GIST)

17:40-18:00 Towards a Semantically Enhanced Control Architecture, N/A
M. Milis, Georgios
Panayotou, Christos
Polycarpou, Marios M.
Univ. of Cyprus
Univ. of Cyprus
Univ. of Cyprus

ThC02
Linear Systems II (Regular ISIC Session)

Chair: Wahrburg, Arne
Co-Chair: Freeman, Christopher T.
Tech. Univ. Darmstadt
Univ. of Southampton

16:00-16:20 Robust Fault Isolation Using Dynamically Extended Observers, N/A
Wahrburg, Arne
Adamy, Jürgen
Tech. Univ. Darmstadt
Tech. Univ. Darmstadt

16:20-16:40 Observer-Based Fault Isolation for Statically Non-Isolable Linear Systems, N/A
Robust Higher Order Repetitive Control Applied to Human Tremor Suppression, N/A
Verstappen, Ron
Freeman, Christopher T.
Rogers, Eric
Sampson, Trish
Burridge, Jane
Tech. Univ. Darmstadt
Tech. Univ. Darmstadt
16:40-17:00 ThC02.3

Assessment of Gradient-Based Point-To-Point ILC for MIMO Systems with Varying Interaction, N/A
Dinh, Thanh
Freeman, Christopher T.
Lewin, Paul L.
Tan, Ying
Univ. of Southampton
Eindhoven Univ. of Tech.
Univ. of Southampton
17:00-17:20 ThC02.4

Two Procedures with Randomized Controls for the Parameters' Confidence Region of Linear Plant under External Arbitrary Noise, N/A
Amelin, Konstantin
Amelina, Natalia
Granichin, Oleg N.
Granichina, Olga
Sankt-Petersburg State Univ.
Saint-Petersburg State Univ.
Saint Petersburg State Univ.
17:20-17:40 ThC02.5

Indirect M-MRAC for Systems with Time Varying Parameters and Bounded Disturbances, N/A
Stepanyan, Vahram
Krishnakumar, Kalmanje
NASA Ames Res. Center
NASA Ames Res. Center
17:40-18:00 ThC02.6
### Technical Program for Friday October 5, 2012

#### FrA01 Room A

**Advances in the Theory and Application of Repetitive Processes and Iterative Learning Control (Invited ISIC Session)**

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<td>FrA01.1</td>
<td>Adaptive Reduced-Order Control of Discrete Repetitive Processes with Iteration-Varying Reference Signals (I), N/A</td>
<td>Omer, El-Sharif (Colorado School of Mines) Moore, Kevin L. (Colorado School of Mines)</td>
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<tr>
<td>FrA01.2</td>
<td>Optimal Iterative Learning Control with Uncertain Reference Points (I), N/A</td>
<td>Son, Tong Duy (KU Leuven) Ahn, Hyo-Sung (Gwangju Inst. of Science and Tech. (GIST))</td>
</tr>
<tr>
<td>FrA01.3</td>
<td>Iterative Learning Control under Parameter Uncertainty and Failures (I), N/A</td>
<td>Pakshin, Pavel (Nizhny Novgorod State Tech. Univ.) Emelianova, Julia (Arzamas Pol. Inst. of R.E. Alekseev Nizhny Novgorod S) Galkowski, Krzysztof (Univ. of Zielona Gora) Rogers, Eric (Univ. of Southampton)</td>
</tr>
<tr>
<td>FrA01.4</td>
<td>Iterative Learning Control with Basis Functions for Media Positioning in Scanning Inkjet Printers (I), N/A</td>
<td>Bolder, Joost (Eindhoven Univ. of Tech.) Lemmen, Bas Pieter (Tech. Univ. of Eindhoven) Koekebakker, Sjirk Holger (Océ Tech. B.V.) Oomen, Tom (Eindhoven Univ. of Tech.) Bosgra, Okko H. (Deft Univ. of Tech.) Steinbuch, Maarten (Eindhoven Univ. of Tech.)</td>
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<tr>
<td>FrA01.5</td>
<td>A New Robust Delay-Variable Repetitive Controller with Application to Media Transport in a Printer (I), N/A</td>
<td>Bajonero Canonico, Ezequiel (Eindhoven Univ. of Tech.) van der Laan, Ewout (Tech. Univ. Eindhoven) Koekebakker, Sjirk Holger (Océ Tech. B.V.) Steinbuch, Maarten (Eindhoven Univ. of Tech.)</td>
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<td>FrA01.6</td>
<td>ILC for FES-Based Stroke Rehabilitation of Hand and Wrist (I), N/A</td>
<td>Soska, Anna (Univ. of Southampton) Freeman, Christopher T. (Univ. of Southampton) Rogers, Eric (Univ. of Southampton)</td>
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#### FrA02 Room B

**Control Applications III (Regular CCA Session)**

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Performance Improvement of Servo Drives with Mechanical Elasticity Via Extended Acceleration Feedback, pp. 1279-1284.
Makkapati, Vamsi Prakash
Univ. of Klagenfurt
Reichhartinger, Markus
Klagenfurt Univ.
Horn, Martin
Klagenfurt Univ.

09:10-09:30 FrA02.3
Pedicini, Carmen
Univ. of Sannio
Iannelli, Luigi
Univ. of Sannio in Benevento
Vasca, Francesco
Univ. of Sannio

09:30-09:50 FrA02.4
Tu, Jia-Ying
National Tsing Hua Univ.
Yang, Hao-Ting
National Tsing Hua Univ.
Lin, Pei-Yang
National Center for Res. on Earthquake Engineering
Jiang, Jheng-Ying
National Tsing Hua Univ.

09:50-10:10 FrA02.5
Locating Leaks & Dumps in Open Channels with Minimal Sensing, pp. 1304-1309.
Nasir, Hasan
LUMS School of Science & Engineering
Muhammad, Abubakr
Lahore Univ. of Management Sciences

FrA03
Adaptive Control (Regular CCA Session)
Room C
Chair: Cho, Kwanghyun
Korea Advanced Inst. of Science and Tech.
Co-Chair: Wu, Hansheng
Prefectural Univ. of Hiroshima

08:30-08:50 FrA03.1
Yang, Chenguang
Univ. of Plymouth
Xu, Bin
Northwestern Pol. Univ.
Ma, Hongbin
Beijing Inst. of Tech.
Culverhouse, Phil
Plymouth Univ.

08:50-09:10 FrA03.2
Wu, Hansheng
Prefectural Univ. of Hiroshima

09:10-09:30 FrA03.3
The Integrated Vehicle Longitudinal Control System for ABS and TCS, pp. 1322-1327.
Cho, Kwanghyun
Korea Advanced Inst. of Science and Tech.
Kim, Jinsung
KAIST
Choi, Seibum Ben
KAIST

09:30-09:50 FrA03.4
Time Varying Attitude Control Strategies for the Myriade Satellites, pp. 1328-1333.
Luzi, Alexandru-Razvan
ONERA, The French Aerospace Lab.
Biannic, Jean-Marc
ONERA
Peaucelle, Dimitri
LAAS-CNRS, Univ. de Toulouse
Position Funnel Control with Linear Internal Model, pp. 1334-1339.
Hackl, Christoph M.
Kennel, Ralph

Costa, B. Andrade
Lemos, Joao M.

Open-Loop Control for 2DOF Robot Manipulators with Antagonistic Bi-Articular Muscles, pp. 1346-1351.
Sano, Keisuke
Kawai, Hiroyuki
Murao, Toshiyuki
Fujita, Masayuki

Force Controlled Knife-Grinding with Industrial Robot, pp. 1356-1361.
Sornmo, Olof
Wanner, Anders

A Class of Globally Stabilising Controllers for the Control of Wave Energy Devices for Potable Water Production, pp. 1369-1373.
Lekka, Angeliki
Turner, Matthew C.
Ringwood, John V.

New Hamiltonian Formulation of Rheonomous Affine Constraints Based on the Rheonomous Bracket, pp. 1374-1381.
Kai, Tatsuya

Yashiro, Yusuke

Belikov, Juri
Kotta, Ülle
Tonso, Maris

09:50-10:10 FrA05.5
Controller Structure for Plants with Combined Saturation and Deadzone/backlash, pp. 1394-1399.
Rodriguez Liñan, Maria del Carmen
Heath, William Paul

Lin, Chun-Liang
Ping-Min, Hsu

FrA06
Predictive Control I (Regular CCA Session)
Chair: Spinu, Veaceslav
Co-Chair: Tabatabai, Mohammad

08:30-08:50 FrA06.1
A Parallel Algorithm for Implicit Model Predictive Control with Barrier Function, pp. 1405-1410.
Baccari, Silvio
Iannelli, Luigi
Vasca, Francesco

08:50-09:10 FrA06.2
A Differential Flatness Based Model Predictive Control Approach, pp. 1411-1416.
Kandler, Christoph
Ding, Steven X.
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Sumioka, Tadaashi
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**Chair:** Duncan, Tyrone E.  
**Co-Chair:** Petersen, Ian  
**Univ. of Kansas**  
**Univ. of New South Wales at the Australian Defence Force Acad.**

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<td>Duncan, Tyrone E. Pasik-Duncan, Bozenna</td>
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<td>Tchaikovsky, Michael Kurdyskov, A.P. Nikiforov, Vitalii M.</td>
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**Predicting Epileptic Episodes? a Systems & Information Theoretic Approach (Plenary Session)**

**Chair:** Rogers, Eric  
**Co-Chair:** Chesi, Graziano  
**Univ. of Southampton**  
**Univ. of Hong Kong**

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**Control of Molecular Purity, Crystal Structure, and Particle Size Distribution in Pharmaceutical Crystallization** (Plenary Session)

**Chair:** Zhang, Ji-Feng  
**Co-Chair:** Sauter, Dominique D.J.  
**Chinese Acad. of Sciences**  
**Lorraine Univ.**

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**Controller Design (Regular CCA Session)**

**Chair:** Paszke, Wojciech  
**Co-Chair:** Szabo, Zoltan  
**Univ. of Zielona Gora**  
**Hungarian Acad. of Sciences**

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Chair: Fekih, Afef
Co-Chair: Mutka, Alan

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Toyota Motor Corp.
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Univ. Novi Sad, Faculty of Tech. science

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Saijai, Jedsada  
Univ. of Duisburg - Essen  
Abdo, Ali  
Univ. of Duisburg - Essen  
Damlakhi, Waseem  
Duisburg-Essen Univ.  
Ding, Steven X.  
Univ. of Duisburg-Essen

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Tabatabaeipour, Seyed Mojtaba  
Aalborg Univ.  
Bak, Thomas  
Aalborg Univ.

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Jakovljevic, Boris  
Faculty of Tech. Sciences, Univ. of Novi Sad  
Kanovic, Zeljko  
Faculty of Tech. Sciences, Univ. of Novi Sad  
Jelicic, Zoran D.  
Univ. of Novi Sad

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Sid, Mohamed Amine  
Lorraine Univ. CRAN  
Aberkane, Samir  
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Sauter, Dominique D.J.  
Lorraine Univ.  
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16:40-17:00  
Marjanovic, Aleksandra  
School of Electrical Engineering  
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