

Congress Events

Pre-Congress Tutorials & Workshops

Tutorials and workshops are presented at the COEX Conference Center in Seoul on July 5 - 6, 2008 by renowned professors and engineers in conjunction with the 17th IFAC World Congress as a Pre-Congress program on eighteen selected topics. The topics include well-established techniques, and new and emerging issues in control and related areas that will draw keen interests in industries and academia.

Pre-Congress Tutorials & Workshops Schedule

Saturday, July 5 & Sunday, July 6

Advances in Three Term Control

TT1

L.H. Keel, Center of Excellence in Information Systems, Tennessee State University
Y.C. Kim, Chungbuk National University
S.P. Bhattacharyya, Texas A&M University

09:00 - 17:30, Room 314, Conference Center, 3rd floor

Complex Embedded and Networked Control Systems

WS1

Alexander Fradkov, Laboratory of Control of Complex Systems, IPME, Russian Academy of Science
Francoise Lamnabhi-Lagarrigue, CNRS and European Embedded Control Institute

09:00 - 17:30, Room 313, Conference Center, 3rd Floor

Saturday, July 5

Modeling and Control of Roll-to-Roll Material Processing Systems

TT4

Prabhakar R. Pagilla, Mechanical & Aerospace Engineering, Oklahoma State University
Dominique Knittel, Department of Mechatronics & Systems Design, University of Strasbourg and INSA
Kee-Hyun Shin, Department of Mechanical Engineering, Konkuk University

09:00 - 17:30, Room 315, Conference Center, 3rd Floor

Observers for Systems with Unknown Inputs:

TT5

A Practical Guide to Design and Applications

Stanisław H. Żak, School of Electrical and Computer Engineering, Purdue University

09:00 - 17:30, Room 318, Conference Center, 3rd Floor

Chance Constrained Process Optimization and Control under Uncertainty

TT6

Pu Li, Institute of Automation and Systems Engineering, Technical University of Ilmenau

09:00 - 17:30, Room 317, Conference Center, 3rd Floor

Identification & Control of Unstable Systems

WS2

M. Chidambaram and A. Seshagiri Rao, Department of Chemical Engineering, National Institute of Technology
R. Padma Sree, Andhra University

09:00 - 17:30, Room 319, Conference Center, 3rd Floor

Sunday, July 6***Convex Optimization*****TT2**

Stephen Boyd, Information Systems Laboratory, Department of Electrical Engineering, Stanford University
 Lieven Vandenberghe, University of California, Los Angeles
 Michael Grant, Stanford University

09:00 - 17:30, Room 304B, Conference Center, 3rd Floor***Robustness in Systems Biology: Methods and Applications*****TT7**

Eric Bullinger, Industrial Control Centre, University of Strathclyde
 Hong Yue, Industrial Control Centre, University of Strathclyde
 Frank Allgöwer, Institute for Systems Theory and Automatic Control, University of Stuttgart
 Rolf Findeisen, Institute for Systems Theory and Automatic Control, University of Stuttgart
 Pablo A. Iglesias, Department of Electrical Engineering, The Johns Hopkins University
 Elling Jacobsen and Camilla Trané, Department of Electrical Engineering, KTH Sweden
 Rick Middleton and Oliver Mason, The Hamilton Institute, National University of Ireland Maynooth
 Jongrae Kim and Declan Bates, Department of Engineering, University of Leicester

09:00 - 17:30, Room 305, Conference Center, 3rd Floor***Biological Control Systems*****TT8**

Babatunde A. Ogunnaike, Department of Chemical Engineering, University of Delaware

09:00 - 17:30, Room 309, Conference Center, 3rd Floor***Emerging Networked Sensing and Actuation Technologies:
State of the Art, System Design and Applications*****TT9**

Elena Gaura, Cogent Computing Applied Research Centre, Faculty of Engineering and Computing, Coventry University
 James Brusey, Cogent Computing Applied Research Centre, Faculty of Engineering and Computing, Coventry University

09:00 - 17:30, Room 306, Conference Center, 3rd Floor***Variable Structure Systems with Sliding Modes and Their Applications*****TT12**

Xinghuo Yu, Platform Technologies Institute, RMIT University
 Jian-Xin Xu, Department of Electrical and Computer Engineering, National University of Singapore

09:00 - 17:30, Room 312, Conference Center, 3rd Floor***Analysis and Design of Distributed Adaptive Networks*****WS3**

Ali H. Sayed, Department of Electrical Engineering, University of California, Los Angeles

09:00 - 17:30, Room 315, Conference Center, 3rd Floor***Embedded Control Systems: From Design to Implementation*****WS4**

Pedro Albertos, Systems Engineering and Control, Institute of Industrial Control and Informatics, Polytechnic University of Valencia
 Karl-Erik Arzen & Anton Cervin, Lund University
 Martin Törngren, KTH - Royal Institute of Technology Stockholm
 Alfons Crespo & José Simó, Instituto de Automática e Informática Industrial, UPV
 Zdenek Hanzalek, Czech Technical University

09:00 - 17:30, Room 319, Conference Center, 3rd Floor***Cooperative Control of Multiple Autonomous Vehicles*****WS5**

Pedro Aguiar, Institute for Systems and Robotics, Instituto Superior Técnico, Technical University of Lisbon

Antonio M. Pascoal, Institute for Systems and Robotics, Instituto Superior Técnico, Technical University of Lisbon

João P. Hespanha, Department of Electrical and Computer Engineering, University of California, Santa Barbara

Isaac Kaminer, Department of Mechanical and Astronautical Engineering, Naval Postgraduate School

Wei Ren, Department of Electrical and Computer Engineering, Utah State University

09:00 - 17:30, Room 308, Conference Center, 3rd Floor

Continuous-time Model Identification from Sampled Data

WS6

Liuping Wang, School of Electrical and Computer Engineering, RMIT University

Hugues Garnier, Centre de Recherche en Automatique de Nancy, Nancy-University, CNRS, Faculté des Sciences et Techniques

09:00 - 17:30, Room 318, Conference Center, 3rd Floor

*Delays, Feedbacks and Interconnections:
From Simple Structures to Complex Networks*

WS7

Silviu-Iulian Niculescu, Laboratory of Signals and Systems, CNRS-Supelec

Joono Cheong, Department of Control and Instrumentation Engineering, Korea University

09:00 - 17:30, Room 317, Conference Center, 3rd Floor

Stochastic Model Predictive Control

WS8

Mark Cannon and Basil Kouvaritakis, Department of Engineering Science, University of Oxford

09:00 - 17:30, Room 307, Conference Center, 3rd Floor

Self-Optimizing Control: Theory and Applications

WS9

Vinay Kariwala, Division of Chemical & Biomedical Engineering, Nanyang Technological University

Sigurd Skogestad, Department of Chemical Engineering, Norwegian University of Science and Technology

09:00 - 17:30, Room 316, Conference Center, 3rd Floor