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**   
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**   
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**   
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: A Practical Guide to Design and Applications**   
Stanislaw 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**   
Pu Li, Institute of Automation and Systems Engineering, Technical University of Ilmenau  
09:00 - 17:30, Room 317, Conference Center, 3rd Floor

Saturday, July 5

**Identification & Control of Unstable Systems**   
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**
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**
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 Tranè, 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**
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*
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**
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**
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**
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**
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