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Organized by: Levent Guvenc, Istanbul Technical University, Turkey

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Organized by: Petr Korba, ABB Corporate Research, Switzerland

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¹TU Hamburg-Harburg, Germany, ²ALSTOM Power Systems Ltd., UK

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Organized by: Levent Guvenc, Istanbul Technical University, Turkey

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Organized by: Antonios Tsudros and John Economou, Cranfield University-RMCS, UK

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Chawki Mahfoudi¹, Karim Djouani², S. Rechak¹, M. Bouaziz¹
¹Ecole Polytechnique Algiers, Algeria, ²University Paris 12/LIIA Lab, France

Optimal Gaits Generation of a 4-Legged Walking Robot
Aria Alasty, Bayandor Sadeghian Borujeni
Sharif University of Technology, Iran

A Fuzzy System for Gait Adaptation of Biped Walking Robots
Ozkan Bebek, Kemalettin Erbatur
Sabancı University, Turkey

A Novel Intelligent Technique for Mobile Robot Navigation
X. Yang, M. Moallem, R.V. Patel
University of Western Ontario, Canada

Internet-based Teleoperation of a Mobile Robot with Force-reflection
Jae-Nam Lim, Jae-Pyung Ko, JangMyung Lee
Pusan National University, Korea
An Adaptive PID Learning Controller for Periodic Robot Motion
Mirela Trusca, Gheorghe Lazea
Technical University of Cluj-Napoca, ROMANIA

TuA1-1: Special Session on Control of Underactuated Systems

Organized by: Ravi Banavar, I.I.T. Bombay, India

A Switched Finite-time Point-to-point Control Strategy for an Underactuated Underwater Vehicle
V. Sankaranarayanan, Arun Mahindrakar, Ravi Banavar
I.I.T. Bombay, India

Maneuvering Control Problems for a Spacecraft with Unactuated Fuel Slosh Dynamics
Mahmut Reyhanoglu
Embry Riddle Aeronautical University, USA

Motion Control of an Underactuated Manipulator without Feedback Control
Hiroshi Yabuno, Takashi Matsuda, Nobuharu Aoshima
University of Tsukuba, JAPAN

Energy Based Swing-up of the Acrobot and Time-optimal Motions
Ravi Banavar, Arun Mahindrakar
I.I.T. Bombay, India

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Real Time Optimization of an Extrusion Cooking Process using a First Principles Model
Dominique Pomerleau¹, André Desbiens², Geoff W. Barton³
¹Swabey Ogilvy Renault, Canada, ²Laval University, Canada, ³University of Sydney, Australia

CRHPC using Volterra Models and Orthonormal Basis Functions: An Application to CSTR Plants
Gustavo Oliveira¹, Wagner Amaral², Krzysztof Latawiec³
¹PPGEPS/CCET/PUCPR, Brazil, ²DCA/FEEC/UNICAMP, Brazil, ³DEEAC/TOU, Poland

Partial Stability for Specific Growth Rate Control in Biotechnological Fed-batch Processes
Enric Pico-Marco, Jesus Pico
Technical University of Valencia, Spain

A Model Based Approach for Estimation and Control for Polymer Compounding (April 2003)
Aditya Kumar, S. Alper Eker, Paul Houpt
GE Global Research, USA

A Comparative Study on Modeling of a Raw Material Blending Process in Cement Industry Using Conventional and Intelligent Techniques
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