An Incremental Approach To Teach Mechatronics Design at the Sophomore Level of Mechatronics Engineering Education

Session 16 - New Technologies, Courses and Teaching Methods in Mechatronics

An Incremental Approach To Teach Mechatronics Design at the Sophomore Level of Mechatronics Engineering Education

Session 18 - Projects in Mechatronics

Supported by

12th International Workshop on  "Research and Education in Mechatronics"

REM2011

Kocaeli University, Kocaeli, Turkey

Session 22 - Industrial Applications of Mechatronics, Medicine and Robotics

Removing Analog Links In Structural Control

Object Oriented Modelling And Simulation of Mechatronic Systems using Bond Graphs

Bernstein, T. & Kittler, K. & Hübner H. W.

Impedance Spectroscopy as a Battery State Of Health Indicator

Tjus, M. & Berg, M. & Stentenbach, N.

Session 2B - Automotive Industry

New Mechatronic Standards and Implementation in Applied Science University Education by Hayrettin Karcı

On the Impact of Software Architecture for Mechatronic Systems

Meyer, D.

Programme for Day 1, Thursday, September 15, 2011

Welcome Speech by Professor Muharrem Yilmaz, Chairman of Mechatronics Engineering Dept., Kocaeli University

Programme for Day 2, Friday, September 16, 2011

Session 2A - Projects in Mechatronics

Comparison of Kinect and Bumblebee2 in Indoor Environments

Ocak, O. & Aydın, M.

Programme for Day 3, Saturday, September 17, 2011

Session 4A - Mechatronics Components and Systems

Automatic Storage and Retrieval System (AS/RS) Based On Cartesian Robot For Liquid Food Industry

Toz, M. & Küçük, S.

Session 4B - Mechatronics Components and Systems

Modeling and Control of A Rigid-Link Flexible Joint Robot Manipulator

Fenercioğlu, A. & Soyaslan, M. & Közkurt, C.

Session 3A - Projects in Mechatronics, Robotics

Rotation and translation of rigid bodies with joint limitations using the bondspace in bond graphs

Bartsch, T. & Biesenbach, R. & Koch, A. & Weinert, A.

Polimodular Mechatronic Orthotic System for Recovery of Lower Limbs in Paediatric Orthopaedics

Burnei, Gh. & Gavriliu, S. & Lata, I. & Lung, I. & Moldavanu, A.

Programme for Day 1

Coffee Break

Programme for Day 2

Session 5A - New Technologies, Courses and Teaching Methods in Mechatronics

Trends in Applied Mechatronics by Fikret Kemal Akyüz

Keynote Presentation by Professor Metin Sitti

Session 6A - Mechatronics System Design

Implementation of Walking Gaits On Robot Walking Test Bench: Use Of Central Pattern Generators

Ayçiçek, E. & Darcin, N. & Aydın, M. A.

Session 7A - Mechatronics System Design

Realtime Simulation Based Control Development of Machine Tool Controls

Heidingsfelder, P. & Gao, J. & Ott, P.

Session 1A - New Technologies, Courses and Teaching Methods in Mechatronics

Realtime Simulation Based Control Development of Machine Tool Controls

Heidingsfelder, P. & Gao, J. & Ott, P.

Internationalization of Mechatronics Engineering Study Courses – Experiences with China, Korea and Singapore

Room Akdeniz , Prof. Dr. Baki Komsuoğlu Congress Center

Programme for Day 3

Coffee Break

Coffee Break

Coffee Break

Coffee Break

Session 3B - New Technologies, Courses and Teaching Methods in Mechatronics

Analysis of State of the Art in Remote Control Applied on a KUKA KRC2 Robot Control

Nguyen, N. & Kadima, H.

Session 4A - Mechatronics Components and Systems

Comparison of TVP and ERIP Motor Types in 3-Phase Induction Motors

Baer, G. & Charlier, B. & Barba, J. & Salamon, A.

Session 4B - Mechatronics Components and Systems

Comparison of TVP and ERIP Motor Types in 3-Phase Induction Motors

Baer, G. & Charlier, B. & Barba, J. & Salamon, A.

Session 3A - Projects in Mechatronics, Robotics

Analysis of State of the Art in Remote Control Applied on a KUKA KRC2 Robot Control

Nguyen, N. & Kadima, H.

Session 4A - Mechatronics Components and Systems

Comparison of TVP and ERIP Motor Types in 3-Phase Induction Motors

Baer, G. & Charlier, B. & Barba, J. & Salamon, A.

Session 4B - Mechatronics Components and Systems

Comparison of TVP and ERIP Motor Types in 3-Phase Induction Motors

Baer, G. & Charlier, B. & Barba, J. & Salamon, A.

Session 3A - Projects in Mechatronics, Robotics

Analysis of State of the Art in Remote Control Applied on a KUKA KRC2 Robot Control

Nguyen, N. & Kadima, H.

Session 4A - Mechatronics Components and Systems

Comparison of TVP and ERIP Motor Types in 3-Phase Induction Motors

Baer, G. & Charlier, B. & Barba, J. & Salamon, A.