

Wednesday, August 5, 2015

9:00 – 13:00

Hall F

Plenary Session and Symposium on
Engineering Cybernetics and Systems Research

Chairs:

Prof. Vladimír Mařík, Czech Technical University of Prague, Czech Republic
Prof. Alexander Lavrov, University of Applied Sciences - FH, Kaiserslautern, Germany

**Hyperincursive Discrete Harmonic Oscillator with Conservation of Energy
Separable into Two Incursive Discrete Harmonic Oscillators with
Conservation of FORWARD and BACKWARD ENERGIES – Keynote Address**
by Prof. Daniel M Dubois, CHAOS ASBL Institute of Mathematics, and
HEC Management School NI, University of Liege, Belgium

Exact Optimization of Real-World Cutting Stock problems with GAMS
by Ersan Banbal and Prof. Julia Kallrath,
Darmstadt University of Applied Sciences, Darmstadt, Germany

**Distributed and Centralized Control Schemes for
Multicar Material Handling Systems - Keynote Address**
by Prof. Alexander Lavrov
University of Applied Sciences - FH, Kaiserslautern, Germany

**Towards Industry 4.0: ARUM Production Planning and
Scheduling Architecture - Keynote Address**
by Prof. Vladimír Mařík, Czech Technical University of Prague,
and CERTICON a. s., Prague, Czech Republic

Coffee Break 10:30-10:50

A Retrofit Study of Tower Blocks under ECO – Keynote Address
by Dr. Matthew Gibson¹ and Prof. Stephen Todd²
¹Energy Council, UK; ²University of Salford, UK

**Embedded Tutorials and Demo Models
in Manufacturing and Logistics Simulation Tools:
Taxonomy and Application Issues**
by Damir Koischubajew and Rüdiger Weber
University of Applied Sciences - FH, Kaiserslautern, Germany

**Use of Multimedia and Information Technologies in
the Hybrid Classroom – V. - Keynote Address**
by Prof. K. Winfried K. Rudloff, Governors State University, Univ. Park, IL, USA,

Syntax Structure in Poetry Retrieval: Some Research Issues – Invited Address

by Ms. Magdalena Granos, Ph.D. Candidate, Institute of Informatics,
Wroclaw University of Technology, Wroclaw, Poland