

Wednesday, August 5, 2009

9:00 – 13:00

Hall D

## **Symposium on Computer Science, AI, Logic & Mathematics**

Chairs: Prof. Vladimír Mařík, Czech Technical University of Prague, Czech Republic  
Docent Dr. Ladislav Lukaš, Univ. of West Bohemia in Pilsen, Czech Republic.

**Historical Perspective on the Evolution Towards a “Smart” Electric Grid (Keynote Address)**  
by Prof. Don Koval, University of Alberta, Edmonton, Alberta, Canada

**Higher Order Representation of Logic Functions Revisited (Keynote Address)**  
by Prof. Youichi Kobuchi, Faculty of Science & Technology, Ryukoku University, Seta, Japan

**Efficiency of Use of Fixed Points Theory in Banach Space  
in the study of Economic Phenomena**  
by Dr. Svetlana Kërënxi, University “A. Xhuvani” Elbasan, Albania

**Some Generalization of VRA algorithm for Time-series Analysis**  
by Docent Dr. Ladislav Lukaš, University of West Bohemia in Pilsen, Czech Republic.

**A Semantic Formulation of Gödel’s Incompleteness Theorem**  
Prof. Jorge Carrera Bolaños, National University of Mexico (UNAM), Mexico City, Mexico.

**Coffee Break 12:00-14:00**

**Can Computers Understand “Natural” Language?**  
by Freddie B. Kato & Prof. K. Winfried K. Rudloff, Governors State University, Univ. Park, IL, USA,

**Semantic Information in Industrial Agent-based Systems – (Keynote Address)**  
by Prof. Vladimír Mařík & Dr. Pavel Vrba, Czech Technical University of Prague  
and Rockwell Automation, Prague, Czech Republic

**Generalized Inventory Models of EOQ Type and their Numerical Solution in Java**  
by Docent Dr. Ladislav Lukaš, University of West Bohemia in Pilsen, Czech Republic.

**Analysis of a Hybrid-Electric Bus Using a Flywheel Energy Storage System**  
by Chenyang Wang, Prof. Don Koval, Xingjian Liang, Chris Chapelsky, Andy Knight,  
University of Alberta, Edmonton, Alberta, Canada

**Estimating and Generating Order Diversity in Intra-Logistics Simulation**  
by Prof. Alexander Lavrov and Prof. Tatiana Likhovozova, National Technical University of  
Ukraine and University of Kaiserslautern, Germany.