

Wednesday, August 4, 2010

10:00 – 18:00

Hall E

**Symposium on Multiagent Systems, Robotics and Cybernetics:
Theory and Practice - Part I.**

Moderator: Professor Jochen Pfalzgraf, University of Salzburg, Austria

<http://www.cosy.sbg.ac.at/~jpfalz/InterSymp-2010.html>

Time for Talks: 30 Minutes (25 + 5: 5 min. for Discussion)

Morning Session 10:00 – 12:00

Welcome and Opening Talk

Reflections on the Elementary Importance of the Arrow Notation.

Some Illustrating Examples from Category Theory, Relations, Deductive Systems, Multiagent Systems, Geometry and Networks

Jochen Pfalzgraf (Symposium Organizer and Chairman), University of Salzburg, Austria

Towards a Software Architecture for a Communicative Robot Agent

Jim Cunningham, Department of Computing, Imperial College London, UK

**Interacting Legal Agents: Law and Medicine – Legal Structure in Medical Cases
(Joint Presentation)**

Beatrice Scharer, University of Köln, Germany

Julien Höfer, University of Freiburg, Germany

Lunch Break 12:00 – 14:30

Afternoon Session 14:30 – 17:30

Is Flexibility in a Professional Career Being Rewarded? An Agent-Based Simulation

Stefan Pickl, Universität der Bundeswehr, München, Germany

Where Abstract Mathematics Rescues Consistency Representations by the Mean of Projective Algebraic Action Planning Groups

Olivier Barthelemy, CREC St-Cyr, France

Coffee Break 16:00 – 16:30

Model Transformation of Constraints Between Business & IT-Models

Hanna Schölzel, Technical University of Berlin, Berlin, Germany

Transformation of Petri Nets and their Processes with Applications to Google Wave

Karsten Gabriel, Technical University of Berlin, Berlin, Germany

Thursday, August 5, 2010

10:30 – 16:00

Hall E

**Symposium on Multiagent Systems, Robotics and Cybernetics:
Theory and Practice - Part II.**

Moderator: Professor Jochen Pfalzgraf, University of Salzburg, Austria

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Time for Talks: 30 Minutes (25 + 5: 5 min. for Discussion)

Morning Session 10:30 – 12:00

Logical Fibering as Datastructure

Jacques Calmet, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

Huzita's Origami Axioms Revisited

Tetsuo Ida, Tsukuba University, Japan

Lunch Break 12:00 – 14:30

Afternoon Session 14:30 – 16:00

**Computer-Assisted Proving and Discovery: Selected Examples from Combinatorics,
Number Theory, and Special Functions**

Peter Paule, Research Institute for Symbolic Computation (RISC), Johannes Kepler University
Linz, Austria

Algebraic Stability Analysis for Biological and Control Systems

Dongming Wang, UPMC-CNRS, France and Beihang University, China

**Flexible Automation and Control Systems Based on Qualitative Models
and Software Agents**

Stephan Pech, Institute of Industrial Automation and Software Engineering,
University of Stuttgart, Stuttgart, Germany

CONCLUDING the Symposium