

## **FINAL PROGRAMME**

All lectures are given in *Room 3* that is accessible from the entrance hall of the Institute.

Posters and computer demonstrations are presented in *Room 203*. This room is located on the 2nd floor of the Institute.

Posters and computer software can be installed at any time during Wednesday and Thursday morning. The participants seeking help are encouraged to contact the Workshop organizers at the Registration desk.

The poster and computer sessions start with short presentations on Thursday 15:00 in *Room 3*. The following discussions continue in *Room 203*.

### **Tuesday Afternoon May 11, 2004**

**17:00-19:00** REGISTRATION

**Wednesday Morning May 12, 2004**

SESSION CHAIRMAN: F. RUGGERI

**8:00 - 8:55** REGISTRATION

**9:00 - 9:15** M. Mareš (Czech Republic)

**Opening Address**

**9:15 - 10:10** D.R. Insua (Spain), coauthors: J. Rios, J. Moguerza, J. Martin

**Negotiations over Influence Diagrams**

**10:10 - 10:30** BREAK

**10:30 - 11:25** M.C. Campi (Italy), coauthor: G. Calafiore

**Decision Making in an Uncertain Environment: the  
Scenario-Based Optimization Approach**

**11:25 - 11:45** BREAK

**11:45 - 12:10** M. Kárný (Czech Republic), coauthor: T.V. Guy

**On Dynamic Decision-Making Scenarios with Multiple  
Participants**

**12:10 - 12:35** V. Koshebutskyy (Ukraine)

**HDM Module of Rodos System**

**12:35 - 13:00** J. Kratochvílová (Czech Republic), coauthor: I. Nagy

**Local Traffic Control of a Microregion**

**13:00 - 14:50** LUNCH

**Wednesday Afternoon May 12, 2004**

SESSION CHAIRMAN: D.R. INSUA

**14:50 - 15:45** P. Vojtáš (Slovak Republic)  
**Flexible Querying and Combination of Imperfect Information**

**15:45 - 16:05** BREAK

**16:05 - 16:30** J. Duník (Czech Republic), coauthors: M. Šimandl, O. Straka, M. Flídr, J. Švácha  
**Nonlinear Filtering Methods: Basic Approaches and Software Package**

**16:30 - 16:55** I. Nagy (Czech Republic), coauthors: M. Kárný, A. Quinn  
**Point Estimation with Hard Constraints**

**16:55 - 17:20** J. Andryšek (Czech Republic)  
**Approximate Recursive Bayesian Estimation of Dynamic Probabilistic Mixtures**

**17:20 - 17:40** BREAK

**17:40 - 18:05** R. Seri (Italy), coauthor: C. Choirat  
**Analytic Hierarchy Process, a Psychometric Approach**

**19:00 - 23:00** WELCOME DINNER

**Thursday Morning May 13, 2004**

SESSION CHAIRMAN: K. WARWICK

**9:00 - 9:55** A. Guez (USA), coauthors: R.E. Cochran, I. Rusnak  
**A Multiple Objectives Optimization Approach to Distributed System Design and Control**

**9:55 - 10:15** BREAK

**10:15 - 11:10** F. Ruggeri (Italy), coauthors: J. Palomo, D.R. Insua  
**On Combining Expertise in Dynamic Linear Models**

**11:10 - 11:30** BREAK

**11:30 - 11:55** P. Pecha (Czech Republic), coauthor: M. Janoušek  
**Mathematical Modelling as a Tool for Decision Support Management**

**11:55 - 12:20** V. Šmídl (Czech Republic)  
**Bayesian Approximations for Complex Models**

**12:20 - 12:45** K. Hlaváčková-Schindler (Austria)  
**Some Comparisons of the Complexity of Neural-Network Models and Linear Methods by Means of Metric Entropy**

**12:45 - 14:35** LUNCH

**Thursday Afternoon May 13, 2004**

SESSION CHAIRMAN: R. JIROUŠEK

**14:35 - 14:50** SHORT PRESENTATION OF POSTERS

**14:50 - 15:00** BREAK

**15:00 - 16:30** POSTER & COMPUTER SESSION

P. Nedoma (Czech Republic), coauthor: J. Andryšek  
**Benchmarks in Mixture Processing**

L. Jirsa (Czech Republic), coauthor: F. Varga  
**Decision Making Support for <sup>131</sup>I Therapy of Thyroid Gland Cancer**

P. Němcová (Czech Republic)  
**Filtration of Outliers on the Basis Mixture Model**

F. Kraffer (Czech Republic)  
**An Example of the Use of Polynomial Matrix Equations in the Design of a Quadratically Optimal Tracker**

K. Belda (Czech Republic)  
**Model-Based Control versus Classical Control for Parallel Robots**

P. Arias (Spain), coauthor: C. Péres  
**Multiparticipant Decision Making under Incomplete Group Preference Information**

**19:30 - 23:00** CONFERENCE DINNER

**Friday Morning May 14, 2004**

SESSION CHAIRMAN: A. GUEZ

**9:00 - 9:55** R. Jiroušek (Czech Republic)  
**Knowledge-Based Decision-Making Supported by Compositional Models**

**9:55 - 10:15** BREAK

**10:15 - 11:10** D. Veit (Germany), coauthors: W. Fichtner, M. Ragwitz  
**Agent-Based Computational Economics in Power Markets - Multi-agent Based Simulation as a Tool for Decision Support**

**11:10 - 11:30** BREAK

**11:30 11:55** J. Kracík (Czech Republic)  
**On Composition of Probability Density Functions**

**11:55 - 12:20** A. Balbás (Spain), coauthor: S. Mayoral  
**Arbitrage Absence with Non-Homogeneous Beliefs**

**12:20 - 12:45** M. Novák (Czech Republic), coauthors: L. Pavelková, J. Böhm  
**Optimization of Controller Design Using Monte-Carlo Simulation**

**12:45 - 14:35** LUNCH

**Friday Afternoon May 14, 2004**

SESSION CHAIRMAN: M. KÁRNÝ

**14:35 - 15:00** L. Tesar (Czech Republic)

**Computationally Intensive Methods in Bayesian Model-  
Structure Identification**

**15:00 - 15:25** A. Mármol (Spain), coauthors: M.A. Hinojosa, L. Monroy, V.  
Rubiales

**Compromise Maxmin Solutions for Multiple Criteria  
Bargaining**

**15:25 - 15:45** BREAK

**15:45 - 16:10** T.V. Guy (Czech Republic), coauthors: J. Böhm, M. Kárný

**Probabilistic Mixture Control with Multi-Modal Tar-  
get**

**16:10 - 16:35** K. Warwick (UK), coauthors: M. Kárný, T.V. Guy, J. Kracík,  
I. Goodhew

**Framework for Multisensory Convergence**

**16:35 - 16:45** CLOSING