

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 ¹³¹I 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