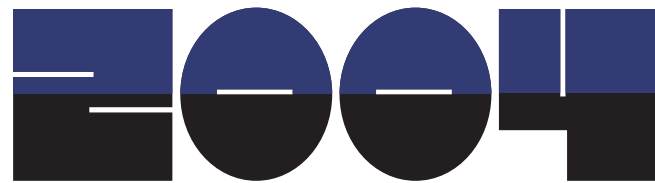




Valencia



16th European Conference on Artificial Intelligence (2004)

22 - 27 August

© ECAI 2004 - 16th European Conference on
Artificial Intelligence
Universidad Politécnica de Valencia
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16th European Conference on

Artificial Intelligence (2004)

ECCAI President WELCOME

I believe we are entering another Golden Age for Artificial intelligence. And I hope that after you have seen the state of the AI field here at ECAI-04, you will agree. With the world becoming increasingly automated and wired together, the opportunities for AI to help people and commerce are rapidly increasing. Almost every sub field of AI has now been used in substantial applications.

To mention just a few areas: Agents are searching the web for us and negotiating on our behalf. CBR technology is personalising mobile phone menus and playlists of music. Model Based Systems are generating diagnostics for automobiles. Data Mining is being used for fraud prevention and customer care. Natural Language techniques are being used for voice recognition, speech and text generation and translation.



Telecoms networks are supported by AI diagnostics. Constraint based systems are now widely used. Consumers are buying autonomous intelligent vacuum cleaners and AI techniques are being used in space and on Mars. The applications of AI are just accelerating.

At ECAI-04, the international AI community gathers together and it is an ideal time to see the activities, capabilities and accomplishments of the sub fields beyond your own. Take time to learn about what is happening across the field as a whole, since the greatest innovations happen when two areas cross over.

On behalf of the European Coordinating Committee for Artificial Intelligence, I welcome you to this gathering of the field. And finally, remember you are part of not only a sub-field of AI, but the whole field of Artificial Intelligence as it starts another Golden Era.

Dr Rob Milne
Sermatech Intelligent Applications
ECCAI President

Conference Chairman WELCOME



Welcome to the hottest European AI event of the year! not only because we are in Valencia in August but, specially, because of the high quality of the scientific programme: 181 papers (including PAIS) and 88 posters, selected from 653 submissions. This high number of submissions represents

a very significant increase with respect to previous ECAIs and clearly shows the very good health of our field. As usual, the main conference also includes 4 invited talks by leading scientists covering the following topics: Spatial Cognition, Personal Media Making, Virtual Reality, and the Semantic Grid.

Besides the main conference, we also have close to 30 workshops and 10 tutorials, covering very important AI topics, and the co-located STAIRS Symposium. All these, together with the 59 sessions for oral presentation of the accepted papers, and the 2 poster sessions, makes this ECAI more dense than ever and, therefore, will require an extra effort that, I am sure, you all will invest in order to make it a very successful event.

Thanks in advance for this effort!

Ramon López de Mántaras
Conference Chairman



ECAI Programme Chair

Continuing a more than trentennial tradition, ECAI 2004 has something to offer to a large variety of attendees: high quality methodological papers for scientists, advanced solutions to problems for potential users, synergies and insights to people from outside the field.

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ECAI 2004 is articulated into five tracks, plus a special one devoted to PAIS, the conference on Prestigious Applications of Intelligent Systems. Moreover, ECAI 2004 is co-located with STAIRS, the symposium presenting works by young AI researchers. This year, ECAI 2004 has also a novelty: given the substantial increase in the number of submitted papers, two poster sessions have been included in the programme.

Well known invited speakers will cover both issues at the frontier of AI research and innovative applications projected toward the future. A consistent number of workshops and tutorials complete the landscape.

An interesting aspect to be mentioned is the remarkable widening of the geographic distribution of the papers' origin: apparently, AI is not only gaining strength in countries where there already is a long tradition, but also tends to spread in the world, attracting fresh forces and stimulating new perspectives.

See you in Valencia, then !

Lorenza Saitta
ECAI Programme Chair

ECAI PAIS Chairman **WELCOME**

PAIS is a subconference within ECAI that showcases applications of Artificial Intelligence. PAIS 2004 is the third in the series and presents 13 papers that show useful and innovative applications of Artificial Intelligence. There is currently considerable interest in applications of AI on the Web and this is evident in the papers presented here. However, the range of papers is broader than that and includes applications in wider areas of industry and medicine. It is important for a mature research discipline such as AI to show that



it delivers technology that is of practical use. This is important to ensure the continued funding of the discipline but is also important in assuring researchers that their work can be of practical use. The PAIS 2004 programme shows that AI research is in a healthy state and is delivering real benefits to business and the community.

Pádraig Cunningham
Trinity College Dublin, Ireland



ECAI Local Chair

It is a great honor for me to welcome you to ECAI 2004 in Valencia. The organising committee is very happy to welcome you to this sixteenth European Conference on Artificial Intelligence, hosted by the Universidad Politécnica de Valencia and the Grupo de Investigación de Tecnología Informática –Inteligencia Artificial (GTI-IA), on the Campus of Vera. With almost 33,000 students, 14 faculties, 45 departments and 32 research laboratories, and more than 290 R+D+I groups comprising approximately 2.500 researchers, this scientific campus offers important research initiatives and it is a place of technologically intensive activities and an important centre of regional development.

We hope that you will get the best out of our programme: the twenty seven workshops, the eleven tutorials, the STAIRS Symposium, the PAIS sessions and, of course, the sessions of the conference.

We also invite you to enjoy the social events that we have organised; they will give you the opportunity to socialise during the reception party in the UPV gardens, where you will be able to taste typical valencian food, including 'paella, and during the dinner at 'El Huerto de Santa María' a nice restaurant inside the irrigated region of Valencia.

Finally, I want to thank all GTI members for their effort and dedication: they made it possible to successfully carry out this event.

We wish you a pleasant stay in Valencia.

Vicente J. Botti Navarro
Univ. Politécnica Valencia, DSIC



Tutorials

Tutorial Chair

Marie-Christine Rousset

It is my pleasure to invite you to join the ECAI 2004 Tutorial Programme in Valencia. It offers 1 full-day and 9 half-day tutorials that have been selected among 20 proposals.

These are high quality tutorials on important and appealing modern AI techniques. New developments in Knowledge Representation, Reasoning, Information Extraction, Multi-Agents and Robotics are covered.

All tutorials will be presented by established experts guaranteeing for state-of-the-art lectures. Both AI researchers and practitioners should find interesting topics to enhance their background.

I hope that you will enjoy this varied programme and find interesting subjects on which to learn about new challenges, concepts and techniques.

Programme of Tutorials

Schedules	Sunday, August 22nd
09.00 – 13.30	T10 Semantic Web: Vision, Tools and Applications <i>Andreas Abecker, Raphael Volz</i> Room 004
	T02 Qualitative Spatial and Temporal Reasoning: from theory to applications <i>Frank Anger, Hans Guesgen, Gerard Ligozat</i> Room 012
	T08 DataMining: From rule learning to relational subgroup discovery <i>Nada Lavrac</i> Room 001
15.30 – 19.30	T11 Action Programming Languages and Cognitive Robotics <i>Michael Thielscher</i> Room 012
Monday, August 23rd	
09.00 – 13.30	T03 Argumentation and Dialogue in AI <i>Trevor Bench-Capon, Paul Dunne</i> Room 205
	T04 Specification and verification of epistemic properties in multi-agent systems <i>Alessio Lomuscio, Wiebe van der Hoek</i> Room 203
	T09 Information Extraction: Theory and Practice <i>Ronen Feldman</i> Room 305
15.30 – 19.30	T04 Specification and verification of epistemic properties in multi-agent systems <i>Alessio Lomuscio, Wiebe van der Hoek</i> Room 203
	T05 Ontological Engineering <i>Asunción Gómez-Pérez, Mariano Fernández-López, Oscar Corcho</i> Room 304
Tuesday, August 24th	
09.00 – 13.30	T01 Inference by Local Computation <i>Jürg Kohlas, Jérôme Mengin, Nic Wilson</i> Room 203
	T06 Constraint Processing <i>Pedro Meseguer, Thomas Schiex</i> Room 204



Workshops

Workshop Chair

Jose Miguel Benedí

The ECAI-2004 workshop program takes place from 22 to 24 August 2004, at the Universidad Politécnica de Valencia. This program includes a series of workshops which cover a wide range of topics, all of them of major interest for AI researchers at present. The program offers a total of 27 workshops of different duration: 1 half-day workshop; 24 one-day workshops and 2 one-day-and-a-Half workshops.

The topics suggested by the workshop organizers provide a fascinating opportunity to explore the new trends in AI. We hope that the ECAI-2004 workshop program gives those present an excellent opportunity to both meet other people in the field, and discuss and exchange ideas in a genuinely interactive manner.

Finally, we would like to thank the workshop organizers since their effort, interest and collaboration have been of invaluable importance for the ECAI-2004 workshop program to be possible.

Programme of Workshops

Sunday, August 22nd

09.00 – 13.30

W08 Agents in dynamic and real-time environments
Room 005

W05 Symbolic Networks
Room 204

W14 Modelling and Solving Problems with Constraints
Room 003

W19 ROC Analysis in AI
Room 013

|19

15.30 – 19.30

W08 Agents in dynamic and real-time environments
Room 005

W05 Symbolic Networks
Room 204

W14 Modelling and Solving Problems with Constraints
Room 003

W19 ROC Analysis in AI
Room 013

W18 Ontology Learning and Population
Room 011

W23 Binding Environmental Sciences and Artificial Intelligence
Room 302

W27 Agent-Mediated Knowledge Management
Room 201

W28 Model-Based Systems
Room 202

W09 Hybrid Metaheuristics
Room 001

W11 Multi-Agent Markov Decision Processes: Theories and Models
Room 304

W16 Planning and Scheduling: Bridging Theory to Practice
Room 004

Monday, August 23rd

09.00 – 13.30

W01 Data Mining in Functional Genomics and Proteomics
Room 204

W02 Configuration Workshop
Room 013

W03 Cognitive Robotics Workshop
Room 003

W26 Application of Semantic Web technologies to Web Communities
Room 307

W20 Constraint Satisfaction Techniques for Planning and Scheduling Problems
Room 012

W21 Artificial Intelligence in Computer Supported Collaborative Learning
Room 301

W22 Local computation for logics and uncertainty
Room 303

W18 Ontology Learning and Population
Room 011

W10 International Workshop on Semantic Intelligence Middleware for the Web and the Grid
Room 010

W23 Binding Environmental Sciences and Artificial Intelligence
Room 302

W27 Agent-Mediated Knowledge Management
Room 201

W28 Model-Based Systems
Room 202

W09 Hybrid Metaheuristics
Room 001

W11 Multi-Agent Markov Decision Processes: Theories and Models
Room 304

W16 Planning and Scheduling: Bridging Theory to Practice
Room 004

15.30 – 19.30**W01 Data Mining in Functional Genomics and Proteomics**

Room 204

W02 Configuration Workshop

Room 013

W03 Cognitive Robotics Workshop

Room 003

W26 Application of Semantic Web technologies to Web Communities

Room 307

W20 Constraint Satisfaction Techniques for Planning and Scheduling Problems

Room 012

W21 Artificial Intelligence in Computer Supported Collaborative Learning

Room 301

W22 Local computation for logics and uncertainty

Room 303

W04 Chance Discovery

Room 011

W06 Knowledge Management and Organizational Memories

Room 205

W07 Agents Applied in Health Care

Room 202

W10 International Workshop on Semantic Intelligence Middleware for the Web and the Grid

Room 010

W25 Coordination in Emergent Agent Societies

Room 201

W12 Computational Models of Natural Argument

Room 001

W13 Adaptive Multimedia Retrieval

Room 302

W15 Spatial and Temporal Reasoning

Room 004

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Tuesday, August 24th

09.00 – 13.30

W02 Configuration Workshop

Room 013

W03 Cognitive Robotics Workshop

Room 003

W04 Chance Discovery

Room 011

W06 Knowledge Management and

Organizational Memories

Room 205

W07 Agents Applied in Health Care

Room 202

W25 Coordination in Emergent Agent Societies

Room 201

W12 Computational Models of Natural Argument

Room 001

W13 Adaptive Multimedia Retrieval

Room 302

W15 Spatial and Temporal Reasoning

Room 004

W17 Applications of Software Agents in Engineering

Room 012

Programme Committee Chairs

STAIRS

Monday & Tuesday
STAIRS 2004
Room: 005

Programme Committee Chairs

Steffen Staab and Eva Onaindia

STAIRS 2004 is the second European Starting AI Researcher Symposium to be held for the second time in August 2004 in Valencia, Spain. STAIRS 2004 is an international meeting aimed at AI researchers, from all countries, at the beginning of their career: PhD students or people holding a PhD for less than one year. It is held jointly with ECAI 2004 on August 23rd and 24th. STAIRS 2004 offers doctoral students and young post-doctoral AI students a



first experience on submitting and presenting a paper in an international forum with a broad scope and thorough selection process, and on the other hand the opportunity to gather knowledge and exchange ideas related to their research problems and approaches.

The papers presented here underwent a rigorous anonymous reviewing process leading to 17 long and 12 short papers from 78 submissions overall. Particular care has been given to foster the inclusion of new ideas, to give authors valuable feedback for their future work and to create a hospitable atmosphere for stimulating out-of-the-box thinking.

A wide range of topics are covered, including Multi-agent Systems, Data Mining, Intelligent User Interfaces, Machine Learning, Ontology and Constraint Programming. The technical programme includes one invited talk by Prof. Boi Faltings and a panel session around the topic of perspective, careers and pitfalls of



Artificial Intelligence research in Europe with participants Frank von Harmelen, Patrick Olivier, Marie-Christine Rousset and Antonio Krüger.

STAIRS 2004 follows the success of the first edition of this symposium in Lyon, STAIRS 2002. The successful joint organization with ECAI foresees a long term and fruitful continuation of STAIRS in the future.

STAIRS

Schedule

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Monday, August 23rd	
09.00 – 09.15	Opening remarks
09.15 – 10.00	Invited talk by Prof. Boi Faltings How to write a review?
10.00 – 10.30	Genetic Algorithms Updating the probability vector using MRF technique for an Univariate EDA. <i>S.K. Shakya, J.A.W. McCall, D.F. Brown</i>
10.30 – 11.00	 Poster Session
11.00 – 12.00	Multi-agent systems Data-oriented Belief Revision: Towards a Unified Theory of Epistemic Processing <i>Fabio Paglieri</i> A Connective Stability Analysis of Complex System Simulation and Control via Multiagent Systems <i>Nicola Gatti</i>
12.00 – 12.30	Poster Session
12.30 – 13.30	Data Mining I Discriminative Closed Fragment Mining and Perfect Extensions in MoFa <i>Thorsten Meinl, Christian Borgelt, Michael R. Berthold</i> Rewriting Queries Using Views with Value Integrity Constraints <i>Helene Jaudoin</i>
13.30 – 14.00	Information Retrieval (1) A Case-Based Approach to Managing and Retrieving Geospatial Imagery Tasks <i>Dympna O’Sullivan, Eoin McLoughlin</i>
14.00 – 15.30	

15.30 – 16.30 Knowledge Representation and Reasoning**Inference in Credal Networks using Multilinear Programming***Cassio P. de Campos, Fabio G. Cozman***IPE and L2U: Approximate Algorithms for Credal Networks***Jaime Shinsuke Ide, Fabio Gagliardi Cozman***16.30 – 17.30 Constraints****Dynamic Symmetry Breaking in Constraint Programming and Linear Programming Hybrids***Karen E. Petrie, Barbara M. Smith, Neil Yorke-Smith***A study of backtracking based informed algorithms***Jlifi Boutheina, Khaled Ghédira***17.30 – 18.00****| Poster Session****18.00 – 19.00****Robotics****A Computational Model for Simulation of Human Navigation Behaviour***Phillip Larkin***Qualitative modelling of Kinematic Robots for Fault Detection and Diagnosis***Honghai Liu, George M. Coghill***19.00 Social event**Visit to downtown
STAIRS dinner

Tuesday, August 24th

- 09.00 – 10.30** **Panel: AI Research in Europe - perspectives, careers and pitfalls**
 Participants:
Frank von Harmelen, Patrick Olivier, Marie-Christine Rousset and Antonio Krüger.
- 10.30 – 11.00** 
- 11.00 – 12.00** **Data Mining II**
- Stream-Based Learning through Data Selection in a Road Safety Application**
Nicolas Saunier, Sophie Midenet, Alain Grumbach
- PREVENT: An Algorithm for Mining Inter-transactional Patterns for the Prediction of Rare Events**
Christos BERBERIDIS, Lefteris Angelis, Ioannis Vlahavas
- 12.00 – 12.30** **Break**
- 12.30 – 13.30** **Case-based Reasoning**
- A CPG-based CBR model to offer the best available medical therapy**
John A. Bohada, David Riano
- Dynamic update of experience for a Case-Based Reasoning system**
Maria Salamó, Elisabet Golobardes
- 13.30 – 14.00** **Information Retrieval (2)**
- Predicting the Relevance of Web Search Results**
Peter Briggs, Barry Smith
- 14.00 – 14.10** **Concluding remarks**
- 14.10 – 15.30** 



ECAI Sessions

SESSIONS

Agents 1 (Agent-1)

Tuesday, 24th. 18:00-19:30

Room 012

Diagnosability analysis of distributed discrete event systems

Yannick Pencolé

Emergence of Complex Networks through Local Optimization

Josep M. Pujol, Andreas Flache, Ramon Sangüesa, Jordi Delgado

Algorithms for Distributed Exploration

Thomas Walker, Daniel Kudenko, Malcolm Strens

Agents 2 (Agent-2)

Wednesday, 25th. 12:00-13:30

Room 012

Automatic verification of deontic interpreted systems by model checking via OBDD's

Franco Raimondi,

Alessio Lomuscio

SERSE: searching for semantic web content

Valentina Tamma, Ian Blacoe,

Ben Lithgow Smith, Michael Wooldridge

A Risk-Based Bidding Strategy for Continuous Double Auctions

Perukrishnen Vytelingum, Rajdeep K. Dash, Esther David, Nicholas R.

Jennings

Agents 3 (Agent-3)

Wednesday, 25th. 15:30-17:30

Room 012

Negotiation in State-Oriented Domains with Incomplete Information over Goals

Shlomit Bergman, Elan Pavlov, Jeffrey S. Rosenschein

Negotiating the Distribution of Obligations with Sanctions among Autonomous Agents

Guido Boella, Leendert van der Torre

Agent Planning, Negotiation and Control of Operation*Antonis Kakas, Paolo Torroni, Neophytos Demetriou***Negotiation Strategies for Autonomous Computational Agents***Fernando Lopes, Nuno Mamede, A. Q. Novais, Helder Coelho***Agents 4 (Agent-4)**

Wednesday, 25th. 18:00-19:30

Room 012

Game-Theoretic Agent Programming in Golog*Alberto Finzi, Thomas Lukasiewicz***Passive Threats among Agents in State Oriented Domains***Yair B. Weinberger, Jeffrey S. Rosenschein***Agents 5 (Agent-5)**

Thursday, 26th. 15:30-17:30

Room 013

FIRE: An Integrated Trust and Reputation Model for Open Multi-Agent Systems*Trung Dong Huynh, Nicholas R. Jennings, Nigel R. Shadbolt***The KGP Model of Agency***Antonis Kakas, Paolo Mancarella Fariba Sadri, Kostas Stathis, Francesca Toni***Many Hands Make Light Work: Localized Satisfiability For Multi-Context Systems***Floris Roelofsen, Luciano Serafini, Alessandro Cimatti***Balancing coordination and synchronization cost in Cooperative Situated Multi-agent Systems with Imperfect Communication***Andrea I. Tavares, Mario F. M. Campos***Agents 6 (Agent-6)**

Thursday, 26th. 18:00-19:30

Room 013

Agreements without disagreements*Samir Aknine, Philippe Caillou***Expectation Reasoning using Regret and Disappointment***Bình Vu Trân, James Harland, Margaret Hamilton***Case-Based Reasoning (CBR)**

Wednesday, 25th. 18:00-19:30

Room 011

Instance-Based Prediction with Guaranteed Confidence*Eyke Hüllermeier*

Instance-Based Learning Techniques of Unsupervised Feature Weighting do not perform so badly!

Héctor Núñez, Miquel Sánchez-Marrè

Cognitive Modelling 1 (Cognit-1)

Friday, 27th. 09:00-10:30

Room 012

Exchanging Emotions - SOM Approach

Heikki Hyötyniemi, Juha Hemànus, Vuokko Lantz

Reasoning about Emotional Agents

John-Jules Meyer

Focusing Reasoning Through Emotional Mechanisms

Luis Morgado, Graça Gaspar

Cognitive Modelling 2 (Cognit-2)

Friday, 27th. 12:30-14:00

Room 012

Applying Affective Tactics for a Better Learning

Patricia Augustin Jaques, Rosa Maria Vicari, Sylvie Pesty, Jean-François Bonneville

Forming Odour Categories using an Electronic Nose

Amy Loutfi, Silvia Coradeschi

A Formal Tutoring Process Model for Intelligent Tutoring Systems

Alke Martens, Adelinde M. Uhrmacher

Constraint Satisfaction, Search, Games 1 (CSP-1)

Tuesday, 24th. 18:00-19:30

Room 013

Improving Asynchronous Backtracking for Dealing with Complex Local Problems

Arnold Maestre, Christian Bessière

Encoding Quantified CSPs as Quantified Boolean Formulae

Ian Gent, Peter Nightingale, Andrew Rowley

Using Constraints with Memory to Implement Variable Elimination

Martí Sánchez, Pedro Meseguer, Javier Larrosa

Constraint Satisfaction, Search, Games 2 (CSP-2)

Wednesday, 25th. 09:00-10:30

Room 013

Symmetry-breaking as a Prelude to Implied Constraints: A Constraint Modelling Pattern

Alan M. Frisch, Christopher Jefferson, Ian Miguel

Tractable symmetry breaking using restricted search trees

Colva M. Roney-Dougal, Ian P. Gent, Tom Kelsey, Steve Linton

Complete and Incomplete Algorithms for the Queen Graph Coloring Problem

Michel Vasquez, Djamel Habet

Constraint Satisfaction, Search, Games 3 (CSP-3)

Wednesday, 25th. 12:00-13:30

Room 013

Robust Solutions for Constraint Satisfaction and Optimization

Emmanuel Hebrard, Brahim Hnich, Toby Walsh

Guiding a Theorem Prover with Soft Constraints

John Slaney, Arnold Binas, David Price

Uncertain Linear Constraints

Nic Wilson

Constraint Satisfaction, Search, Games 4 (CSP-4)

Wednesday, 25th. 15:30-17:30

Room 013

A Case Study of Revisiting Best-First vs. Depth-First Search

Andreas Auer, Hermann Kaindl

Boosting systematic search by weighting constraints

Frédéric Boussemart, Fred Hemery, Christophe Lecoutre, Lakhdar Sais

How to use the scuba diving metaphor to solve problem with neutrality?

Philippe Collard, Sébastien Verel, Manuel Clergue

A Study of the Accuracy of Heuristic Functions

Carlos Linares López

Constraint Satisfaction, Search, Games 5 (CSP-5)

Wednesday, 25th. 18:00-19:30

Room 013

Adversarial Constraint Satisfaction by Game-tree Search

Kenneth N. Brown, James Little, Paidi J. Creed, Eugene C. Freuder

Generalized Widening

Tristan Cazenave

Constrained Pure Nash Equilibria in Graphical Games

Gianluigi Greco, Francesco Scarcello

Constraint Satisfaction, Search, Games 6 (CSP-6)

Thursday, 26th. 09:00-10:30

Room 013

An Effective Branch-and-Bound Algorithm to Solve the k-Longest Common Subsequence Problem

Gaofeng Huang, Andrew Lim

Decomposition and good recording for solving Max-CSPs

Philippe Jégou, Cyril Terrioux

Quantified Constraint Satisfaction and Bounded Treewidth

Hubie Chen

Genetic Algorithms/Emergence/Philosophical Foundations (GA/E/Philo)

Thursday, 26th. 15:30-17:30

Room 011

A Genetic Algorithm with Feminine Selection

Josué Pereira de Castro, Adriana Postal, Guilherme Bittencourt

Generation of desired emergent behavior in swarm of microrobots

Sergey Kornienko, Olga Kornienko, Paul Levi

Artificial agents - personhood in law and philosophy

Samir Chopra, Laurence White

Simplicity in solving the Frame Problem

Victor Jauregui, Maurice Pagnucco, Norman Foo

Knowledge Engineering (KE)

Friday, 27th. 12:30-14:00

Room 013

Control of a Hydroforming Press with Bayesian Networks

Rainer Deventer, Heinrich Niemann, Martino Celeghini

Knowledge-Based Cinematography and Its Applications

Doron Friedman, Yishai Feldman

Knowledge Representation 1 (KR-1)

Tuesday, 24th. 18:00-19:30

Room 004

Reasoning in Description Logics with a Concrete Domain in the Framework of Resolution

Ullrich Hustadt, Boris Motik, Ulrike Sattler

Polynomial Time Reasoning in a Description Logic with Existential Restrictions, GCI Axioms, and---What Else?

Sebastian Brandt

Description Logics with Concrete Domains and Functional Dependencies

Carsten Lutz, Maja Milicic

Knowledge Representation 2 (KR-2)

Wednesday, 25th. 09:00-10:30

Room 004

Improving Web Search through Collaborative Query Recommendation

Evelyn Balfe, Barry Smyth

Efficient and Secure Collaborative Filtering through Intelligent Neighbour Selection

Michael P. O'Mahony, Neil J. Hurley, Guenole C. M. Silvestre

DILIGENT: Towards a fine-grained methodology for Distributed, Loosely-controlled and evolving Engineering of ontologies

Sofia Pinto, Steffen Staab, Christoph Tempich

Knowledge Representation 3 (KR-3)

Wednesday, 25th. 12:00-13:30

Room 004

Synonymous Theories in Answer Set Programming and Equilibrium Logic

David Pearce, Agustín Valverde

Fundamental Issues of Aesthetic Knowledge Representation

Matteo Cristani, Francesco Bellomi

Representing Natural Kinds by Spatial Inclusion and Containment

Stefan Schulz, Udo Hahn

Knowledge Representation 4 (KR-4)

Wednesday, 25th. 15:30-17:30

Room 004

An Investigation into the Expressive Power of PDDL2.1

Maria Fox, Derek Long, Keith Halsey

Goal specification in presence of non-deterministic actions

Chitta Baral, Jicheng Zhao

Analysis of Design Process Dynamics

Tibor Bosse, Catholijn Jonker, Jan Treur

Domain descriptions should be modular

Andreas Herzig, Ivan Varzinczak

Knowledge Representation 5 (KR-5)

Wednesday, 25th. 18:00-19:30

Room 004

A Rank Based Description Language for Qualitative Preferences

Gerhard Brewka

From knowledge-based programs to graded belief-based programs, Part I: On-line reasoning

Noel Laverny, Jerome Lang

Type Checking in Open-Domain Question Answering

Stefan Schlobach, Marius Olsthoorn, Maarten de Rijke



Knowledge Representation 6 (KR-6)

Thursday, 26th. 09:00-10:30

Room 004

New Advances in Compiling CNF into Decomposable Negation Normal Form

Adnan Darwiche

Representing Normal Programs with Clauses

Tomi Janhunen

Representing Knowledge about Norms

Daniel Kayser, Farid Nouioua

Knowledge Representation 7 (KR-7)

Thursday, 26th. 12:00-13:30

Room 004

Generating Random Bayesian Networks with Constraints on Induced Width

Jaime Ide, Fabio Cozman, Fabio Ramos

Determining the direction of causal influence in large probabilistic networks: a constraint-based approach

Liviu Badea

Gene Network Modelling through Semi-Fixed Bayesian Network

Tie-Fei Liu, Wing-Kin Sung, Ankush Mittal

Knowledge Representation 8 (KR-8)

Thursday, 26th. 15:30-17:30

Room 004

Extending a Lexicon Ontology for Intelligent Information Integration

Roberta Benassi, Sonia Bergamaschi, Alain Fergnani, Daniele Miselli

An ontology based visual tool for query formulation support

Tiziana Catarci, Paolo Dongilli, Tania Di Mascio, Enrico Franconi, Giuseppe Santucci, Sergio Tessaris

Operationalization domain ontologies: a method and a tool

Frédéric Fürst, Michel Leclère, Francky Trichet

Similarity-based ontology alignment in OWL-Lite

Jérôme Euzenat, Petko Valtchev

Knowledge Representation 9 (KR-9)

Friday, 27th. 09:00-10:30

Room 004

A semantics for abstraction

Chiara Ghidini, Fausto Giunchiglia

Abduction over unbounded domains via ASP

Piero A. Bonatti

The mereology of stages and persistent entities*Thomas Bittner, Maureen Donnelly***Machine Learning, Data Mining 1 (ML-1)**

Tuesday, 24th. 18:00-19:30

Room 003

Exploiting Association and Correlation Rules Parameters for Improving the K2 Algorithm*Evelina Lamma, Fabrizio Riguzzi, Sergio Storari***Visual Learning by Set Covering Machine with Efficient Feature Selection***Hiroki Nomiya, Kuniaki Uehara***Piece-Wise Model Fitting Using Local Data Patterns***Ricardo Vilalta, Muralikrishna Achari, Christoph Eick*

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Machine Learning, Data Mining 2 (ML-2)

Wednesday, 25th. 09:00-10:30

Room 003

Comparing Conceptual, Divisive and Agglomerative Clustering for Learning Taxonomies from Text*Philipp Cimiano, Andreas Hotho, Steffen Staab***PoBOC: an Overlapping Clustering Algorithm. Application to Rule-Based Classification and Textual Data***Guillaume Cleuziou, Lionel Martin, Christel Vrain***AntTree: A web document clustering using artificial ants***Azzag Hanene, Christianne Guinot, Gilles Venturini***Machine Learning, Data Mining 3 (ML-3)**

Wednesday, 25th. 12:00-13:30

Room 003

Voted Co-training for Bootstrapping Sense Classifiers*Rada Mihalcea***Combining Multiple Answers for Learning Mathematical Structures from Visual Observation***Paulo Santos, Derek Magee, Anthony Cohn, David Hogg***Stacked generalization for information extraction***Georgios Sigletos, Georgios Paliouras, Constantine Spyropoulos, Takis Stamatopoulos***Machine Learning, Data Mining 4 (ML-4)**

Wednesday, 25th. 15:30-17:30

Room 003

Outlier Detection using Disjunctive Logic Programming*Fabrizio Angiulli, Rachel Ben-Eliyahu - Zohary, Luigi Palopoli*

BiasWindowing for Relational Learning

Frédéric Koriche

Ideal Refinement of Datalog Clauses using Primary Keys

Siegfried Nijssen, Joost N. Kok

On-line search for solving Markov Decision Processes via heuristic sampling

Laurent Péret, Frédérick Garcia

Machine Learning, Data Mining 5 (ML-5)

Wednesday, 25th. 18:00-19:30

Room 003

Face Recognition Using Novel LDA-Based Algorithms

GuangDai, Yun Tao Qian

Adaptive Discriminative Generative Model for Object Tracking

Ruei-sung Lin, Ming-hsuan Yang, Stephen Levinson

Avatars That Learn How To Behave

Adam Szarowicz, Paolo Remagnino

Machine Learning, Data Mining 6 (ML-6)

Thursday, 26th. 09:00-10:30

Room 003

Statistical Strategies for Pruning All the Uninteresting Association Rules

Gemma Casas-Garriga

Knowledge-based Selection of Association Rules for Text Mining

Dietmar Janetzko, Hacène Cherfi, Roman Kennke, Amedeo Napoli, Yannick Toussaint

Finding Social Network for Trust Calculation

Yutaka Matsuo, Hironori Tomobe, Kôiti Hasida, Mitsuru Ishizuka

Machine Learning, Data Mining 7 (ML-7)

Thursday, 26th. 12:00-13:30

Room 003

Incremental Augmented Naive Bayes Classifiers

Josep Roure Alcobé

A Backtracking strategy for Order-Independent Incremental Learning

Nicola Di Mauro, Floriana Esposito, Stefano Ferilli, Teresa M.A. Basile

Learning qualitative metabolic models

George M. Coghill, Simon M. Garrett, Ross D. King

Machine Learning, Data Mining 8 (ML-8)

Thursday, 26th. 15:30-17:30

Room 003

A model-based approach to sequence clustering*Henri Binsztok, Thierry Artières, Patrick Gallinari***Learning Complex and Sparse Events in Long Sequences***Marco Botta, Ugo Galassi, Attilio Giordana***M-SOM-ART: Growing self organizing map for sequences clustering and classification***Farida Zehraoui, Younès Bennani***Yet more efficient EM learning for parameterized logic programs by inter-goal, sharing***Yoshitaka Kameya, Taisuke Sato, Neng-Fa Zhou*

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Machine Learning, Data Mining 9 (ML-9)

Thursday, 26th. 18:00-19:30

Room 003

Explaining the result of a decision tree to the end-user*Isabelle Alvarez***Time-Independent Rule-Based Guideline Induction***David Riaño***Learning techniques for Automatic Algorithm Portfolio Selection***Alessio Guerri, Michela Milano***Machine Learning, Data Mining 10 (ML-10)**

Friday, 27th. 09:00-10:30

Room 003

Pushing "Underfitting" to the Limit: Learning in Bidimensional Text, Categorization*Giorgia Maria Di Nunzio, Alessandro Micarelli***Avoiding data overfitting in scientific discovery: Experiments in functional, genomics***Dragan Gamberger, Nada Lavrac***Inference Attacks in Peer-to-Peer Homogeneous Distributed Data Mining***Josenildo Costa da Silva, Matthias Klusch, Stefano Lodi, Gianluca Moro***Natural Language Processing 1 (NLP-1)**

Wednesday, 25th. 15:30-17:30

Room 005

Automatic discovery of translation collocations from bilingual corpora*Sergio Barrachina, Juan Miguel Vilar*

Improvements on Automatic Word Codification for Connectionist Machine Translation

Gustavo A. Casañ, M. Asunción Castaño

Finite-state models for computer assisted translation

Elsa Cubel, Jorge Civera, Juan M. Vilar, Antonio L. Lagarda, Francisco Casacuberta, Enrique Vidal, David Picó, Jorge González, Luis Rodríguez

An Application of Lexicalized Grammars in English-Persian Translation

Heshaam Feili, Gholamreza Ghassem Sani

Natural Language Processing 2 (NLP-2)

Thursday, 26th. 15:30-17:30

Room 005

An Argumentative Approach to Assessing Natural Language Usage based on the Web Corpus

Carlos Chesñevar, Ana Maguitman

Parsing Languages with a Configurator

Mathieu Estratat, Laurent Henocque

A Comparative Analysis of Extracted Grammars

Alessandro Mazzei, Vincenzo Lombardo

WordNet sits the S.A.T. A Knowledge-Based Approach to Lexical Analogy

Tony Veale

Neural Nets (NN)

Thursday, 26th. 18:00-19:30

Room 011

Likely-admissible and sub-symbolic heuristics

Marco Ernandes, Marco Gori

Towards Efficient Learning of Neural Network Ensembles from Arbitrarily Large Datasets

Kang Peng, Zoran Obradovic, Slobodan Vucetic

Neural Nets / Kernel Machines (NN/KM)

Friday, 27th. 12:30-14:00

Room 003

Dynamic Selection of Model Parameters in Principal Components Analysis Neural Networks

Ezequiel Lopez-Rubio, Juan Miguel Ortiz-de-Lazcano-Lobato, María del Carmen Vargas-González, José Miguel Lopez-Rubio

A generalized quadratic loss for Support Vector Machines

Filippo Portera, Alessandro Sperduti

PAIS 1 (PAIS-1)

Thursday, 26th. 09:00-10:30
Room 012

Querying the Semantic Web with the CORESE search engine

Olivier Corby, Rose Dieng-Kuntz, Catherine Faron-Zucker

A Portal for Publishing Museum Collections on the Semantic Web

Eero Hyvönen, Samppa Saarela, Kim Viljane, Eetu Mäkelä, Arttu Valo, Mirva Salminen, Suvi Kettula, Miikka Junnila

A Platform for Cross-lingual, Domain and User Adaptive Web Information Extraction

Vangelis Karkaletsis, Constantine D. Spyropoulos, Claire Grover, Maria-Teresa Pazienza, Jose Coch, Dimitris Souflis

PAIS 2 (PAIS-2)

Thursday, 26th. 12:00-13:30
Room 012

Model and Heuristics for the Shortest Road Layout Problem

Lorenzo Mandow, José Luis Pérez-de-la-Cruz

A Soft Computing Technique applied to industrial catalysis

Soledad Valero, Estefania Argente, Jose Manuel Serra, P. Serna, Vicente Botti, Avelino Corma

APPROACH: Decentralised Rotation Planning for Container Barges

M.C. Schut, M. Kentrop, M. Leenaarts, M. Melis, I. Miller

PAIS 3 (PAIS-3)

Thursday, 26th. 15:30-17:30
Room 012

Lessons from Deploying NLG Technology for Marine Weather Forecast Text Generation

Somayajulu G. Sripada, Ehud Reiter, Ian Davy, Kristian Nilssen

ADVISOR SUITE A knowledge-based sales advisory system

Dietmar Jannach

MASFIT: Multi-Agent System for Fish Trading

Guifre Cuni, Marc Esteva, Pere Garcia, Eloi Puertas, Carles Sierra, Teresa Solchaga

An Interactive System for Hiring and Managing Graduate Teaching Assistants

Ryan Lim, Venkata Praveen Guddeti, Berthe Y. Choueiry

PAIS 4 (PAIS-4)

Thursday, 26th. 18:00-19:30
Room 012

A System for Pacemaker Treatment Advice

Peter Lucas, Ruud Kuipers, Frederick Feith

SmartCare(TM) - Automated Clinical Guidelines in Critical Care

Stefan Mersmann, Michel Dojat

AUTAS: a tool for supporting FMECA generation in aeronautic systems

Claudia Picardi, Luca Console, Frederic Berger, Jan Breeman, Tony Kanakis, Jeroen Moelands, Stephan Collas, Emmanuel Arbaretier, Nino De Domenico, Ermanno Girardelli, Oskar Dressler, Peter Struss, Benjamin Zilbermann

Planning, Scheduling 1 (Plann-1)

Wednesday, 25th. 09:00-10:30

Room 012

Job Shop Scheduling with Probabilistic Durations

J. Christopher Beck, Nic Wilson

Improving the Initialization and Repair Heuristics to Effectively Solve the Pickup and Delivery Problems with Time Windows

Vincent Tam, M.C. Kwan

Flexible Demand Assignment Problem

Fan Wang, Andrew Lim, Hong Chen

Planning, Scheduling 2 (Plann-2)

Thursday, 26th. 12:00-13:30

Room 013

Utilizing Volatile External Information During Planning

Tsz-Chiu Au, Dana Nau, V.S. Subrahmanian

Interleaving Execution and Planning for Nondeterministic, Partially Observable Domains

Piergiorgio Bertoli, Alessandro Cimatti, Paolo Traverso

When Are Behaviour Networks Well-Behaved?

Bernhard Nebel, Yuliya Babovich-Lierler

Planning, Scheduling 3 (Plann-3)

Thursday, 26th. 18:00-19:30

Room 004

Assessing the Bias of Classical Planning Strategies on Makespan-Optimizing Scheduling

Federico Pecora, Riccardo Rasconi, Amedeo Cesta

Evaluation Strategies for Planning as Satisfiability

Jussi Rintanen

Lazy Adaptive Multicriteria Planning

Grigorios Tsoumakas, Dimitris Vrakas, Nick Bassiliades, Ioannis Vlahavas

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Planning, Scheduling 4 (Plann-4)

Friday, 27th. 09:00-10:30

Room 013

Planning with Numeric Variables in Multiobjective Planning*Antonio Garrido, Derek Long***Planning with Numerical Expressions in LPG***Alfonso Gerevini, Alessandro Saetti, Ivan Serina***Reasoning 1 (Reas-1)**

Tuesday, 24th. 18:00-19:30

Room 005

A unifying semantics for belief change*Richard Booth, Samir Chopra, Thomas Meyer, Aditya Ghose***Iterated Belief Change and Exogenous Actions in the Situation Calculus***Steven Shapiro, Maurice Pagnucco***Representing Beliefs in the Fluent Calculus***Yi Jin, Michael Thielscher***Reasoning 2 (Reas-2)**

Wednesday, 25th. 09:00-10:30

Room 005

A Syntactical Approach to Revision*Guilherme Bittencourt, Laurent Perrussel, Jerusa Marchi***Geographic information revision based on constraints***Mahat Khelfallah, Belaïd Benhamou***An Algorithm for Knowledge Base Extraction***Alexander Nittka***Reasoning 3 (Reas-3)**

Wednesday, 25th. 12:00-13:30

Room 005

On Line Monitoring and Diagnosis of Multi-Agent Systems: a Model-Based, Approach*Roberto Micalizio, Pietro Torasso, Gianluca Torta***Diagnosis as Semiring-based Constraint Optimization***Martin Sachenbacher, Brian Williams***Models of Behavior Deviations in Model-based Systems***Peter Struss*

Reasoning 4 (Reas-4)

Wednesday, 25th. 18:00-19:30

Room 005

A Fuzzy Approach to Temporal Model-Based Diagnosis for Intensive Care Units

José Palma, José M. Juárez, Manuel Campos, Roque Marín

Introducing Alias Information into Model-Based Debugging

Daniel Köb, Franz Wotawa

Debugging Program Loops using Approximate Modeling

Wolfgang Mayer, Markus Stumptner

Reasoning 5 (Reas-5)

Thursday, 26th. 09:00-10:30

Room 005

Paraconsistent Preferential Reasoning by Signed Quantified Boolean Formulae

Ofer Arieli

A Unit Resolution-Based Approach to Tractable and Paraconsistent Reasoning

Sylvie Coste-Marquis, Pierre Marquis

A tabulation proof procedure for residuated logic programming

Carlos V. Damásio, Jesus Medina, Manuel Ojeda-Aciego

Reasoning 6 (Reas-6)

Thursday, 26th. 12:00-13:30

Room 005

New insights on the intuitionistic interpretation of Default Logic

Pedro Cabalar, David Lorenzo

Plausibility structures for default reasoning

Yves Moinard

Elimination of spurious explanations

Gerhard Friedrich

Reasoning 7 (Reas-7)

Friday, 27th. 09:00-10:30

Room 005

Consistency and Constrained Optimisation for Conditional Preferences

Nic Wilson

A Qualitative Theory for Shape Representation and Matching for Design

Lledó Museros, M. Teresa Escrig

Reasoning about Actions with Sensing under Qualitative and Probabilistic, Uncertainty*Luca Iocchi, Thomas Lukasiewicz, Daniele Nardi, Riccardo Rosati***Reasoning 8 (Reas-8)**

Friday, 27th. 12:30-14:00

Room 005

A General Recursive Schema for Argumentation Semantics*Pietro Baroni, Massimiliano Giacomin***The Use of Temporal Reasoning and Management of Complex Events in Smart Homes***Juan Carlos Augusto, Chris Nugent***Diagnosis of discrete-event systems by separation of concerns, knowledge compilation, and reuse***Gianfranco Lamperti, Marina Zanella***Robotics (Robot)**

Wednesday, 25th. 15:30-17:30

Room 011.

A Robot Task Planner that Merges Symbolic and Geometric Reasoning*Stéphane Cambon, Fabien Gravot, Rachid Alami***Indirect and Conditional Sensing in the Event Calculus***Jeremy Forth, Murray Shanahan***Active learning for robot manipulation***Antonio Morales, Eris Chinellato, Andrew H. Fagg, Angel P. del Pobil***Adaptive Robot Coordination using Interference Metrics***Avi Rosenfeld, Gal A. Kaminka, Sarit Kraus***Vision, Perception 1 (Vision-1)**

Thursday, 26th. 18:00-19:30

Room 005

Attention-Driven Parts-Based Object Detection*Ilkka Autio, J.T. Lindgren***A context-based model of attention***Niek Bergboer, Eric Postma, Jaap van den Herik***Learning to focus attention on discriminative regions for object detection***Gerald Fritz, Christin Seifert, Lucas Paletta, Horst Bischof*

Vision, Perception 2 (Vision-2)

Friday, 27th. 12:30-14:00

Room 004

Using Spatio-Temporal Continuity Constraints to Enhance Visual Tracking of Moving Objects

Brandon Bennett, Derek R. Magee, Anthony G. Cohn, David C. Hogg

Vision-Language Integration in AI: a reality check

Katerina Pastra, Yorick Wilks

POSTERS

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SESSION A

Poster area

Wednesday 25th., 19:30 – 20:30

Distributed Reasoning in a Peer to Peer Setting*Philippe Adjiman, Philippe Chatalic, Francois Goasdoué, Marie-Christine Rousset, Laurent Simon (France)***A Characterization of Linearly Compensated Hybrid Connectives Used in Fuzzy Classifications***Mónica Sánchez, Francesc Prats, Núria Agell, Joseph Aguilar-Martin (Spain)***Learning Model Free Motor Control***Alejandro Agostini, Enric Celaya (Spain)***A Declarative Characterisation of Disjunctive Paraconsistent Answer Sets***Joao Alcântara, Carlos Damásio, Luis Moniz Pereira (Portugal)***Transmission Expansion Planning Based on Tabu Search Algorithm***Zakariya M. Al-Hamouz, A. H. Mantawy, Hussain Al-Duwaish, Ibrahim El-Amin, Ali Al-Faraj (Saudi Arabia)***Automatic Generation of Macro-Operators from Static Domain Analysis***Giuliano Armano, Giancarlo Cherchi, Eloisa Vargiu (Italy)***Optimal Brain Surgeon Variants For Optimization***Mohammed Attik, Laurent Bougrain, Frédéric Alexandre (France)***Failing-First: An Update***J. Christopher Beck, Patrick Prosser, Richard Wallace (Ireland)***Handling Conflicts in Access Control Models***Salem BENFERHAT, Rania El BAIDA (France)***Preferences on Queries in a Mediator Approach***Alain Bidault, Sarah Cohen Boulakia, Christine Froidevaux (France)*

An Abstraction from Power to Coalition Structures

Guido Boella, Luigi Sauro, Leendert van der Torre (Italy)

ACLANalyser: a Tool for Debugging Multi-agent Systems

Juan A. Botia, Alberto Lopez, Antonio Skarmeta (Spain)

On Multiclass Active Learning with Support Vector Machines

Klaus Brinker (Germany)

Local search heuristics: Fitness Cloud versus Fitness Landscape

Philippe Collard, Sébastien Verel, Manuel Clergue (France)

A Uniform Tableaux-based Method for Abduction and Contraction in Description Logics

Simona Colucci, Tommaso Di Noia, Eugenio Di Sciascio, Francesco M Donini, Marina Mongiello (Italy)

Lakatos-style Automated Theorem Modification

Simon Colton, Alison Pease (UK)

Different Strokes for Different Folks: an analysis of similarity and diversity in Web search

Maurice Coyle, Barry Smyth (Ireland)

Axiomatizing Noisy-OR

Fabio Cozman (Brasil)

Adapting LPGP to Plan with Deadlines

Stephen Cresswell, Alexandra Coddington (UK)

Compilation of LTL goal formulas into PDDL

Stephen Cresswell, Alexandra Coddington (UK)

Towards a Connectionist Argumentation Framework

Artur d'Avila Garcez, Dov M. Gabbay, Luis C. Lamb (UK)

Dynamical Teams of Genetic Predictors

Michael Defoin-Platel, Manuel Clergue, Philippe Collard (France)

From belief change to obligation change in the Situation Calculus

Robert Demolombe (France)

Discovering relevancies in very difficult regression problems: applications to sensory data analysis

Jorge Díez, Gustavo Bayón, José R. Quevedo, Juan José del Coz, Oscar Luaces, Jaime Alonso, Antonio Bahamonde (Spain)

Miss Scarlett in the Ballroom with the Lead Piping

Clare Dixon (UK)

Towards a Logical Analysis of Biochemical Pathways

Patrick Doherty, Steve Kertes, Martin Magnusson, Andrzej Szalas (Sweden)

A New MDL-based Function for Feature Selection for Bayesian Network Classifiers*Madalina M. Drugan, Linda C. van der Gaag (The Netherlands)***Context Dependence in Multiagent Resource Allocation***Paul Dunne (UK)***Tractability Results for Automatic Contracting***Paul E. Dunne, Michael Laurence, Michael Wooldridge (UK)***Evolution of Communication between Genetic Agents***Gilles Éné, Cathy Escazut, Michaël Defoin-Platel (France)***Induction and Revision of Terminologies***Floriana Esposito, Nicola Fanizzi, Luigi Iannone, Ignazio Palmisano, Giovanni Semeraro (Italy)***Empirical Evaluation of the Effects of Concept Complexity on Generalization Error***Roberto Esposito (Italy)***Automatic Induction of Domain-related Information: Learning Descriptors Type Domains***Stefano Ferilli, Floriana Esposito, Teresa M.A. Basile, Nicola Di Mauro (Italy)***Appropriateness of the Case-Based Approach in an application domain with multiple conflicts among Goals***Ricardo L. Freitas , G. Nakamiti, Carlos M. Tobar, D. Piva Jr. (Brasil)***Interactive Task Planning through Multiple Abstraction: Application to Assistant Robotics***Cipriano Galindo, Javier Gonzalez, Juan-Antonio Fernandez-Madrigal (Spain)***Qualitative Interpolation for Environmental Knowledge Representation***Antony Galton, James Hood (UK)***Swarm Intelligence: Agents for Adaptive Web Search***Fabio Gasparetti, Alessandro Micarelli (Italy)***A Spatial Logic of Betweenness***Mehmet Giritli (Germany)***Using the Implication/Realization Model for Measuring Melodic Similarity***Maarten Grachten, Josep Lluís Arcos (Spain)***Model-based monitoring of software components***Irène Grosclaude (France)***Dynamic skeleton-based wayfinding***Hans Guesgen, Paul Shotbolt (New Zealand)*

Using Multiple Relaxations in Temporal Planning

Keith Halsey, Derek Long, Maria Fox (UK)

Improving Heuristics through Search

Patrik Haslum (Sweden)

Utilizing Structured Representations and CSPs in Conformant Probabilistic Planning

Nathanael Hyafil, Fahiem Bacchus (Canada)

SESSION B

Poster area.

Thursday 26th., 19:30 – 20:30

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Converting Texts of Road Accidents into 3D Scenes

Richard Johansson, David Williams, Pierre Nugues (Sweden)

Parameter Estimation in Large Causal Models

Rasa Jurgelenaite, Peter Lucas (The Netherlands)

Temporal Plan Interdependencies

Katharina Kaiser, Silvia Miksch (Austria)

A Troubleshooting Approach with Dependent Actions

Eylem Koca, Taner Bilgic (Turkey)

Qualitative Reasoning Feeding Back into Quantitative Model-based Tracking

Christian Köhler, Artur Ottlik, Hans-Hellmut Nagel, Bernhard Nebel (Germany)

Estimating confidence values of individual predictions by their typicalness and reliability

Matjaz Kukar (Slovenia)

Problems with Local Consistency for Qualitative Calculi

Gerard Ligozat, Jochen Renz (France)

A Critical-Shaking Neighborhood Search for the Yard Allocation Problem

Andrew Lim, Zhou Xu (Hong Kong)

Qualitative Modelling of Planar Robots

Honghai Liu, George M. Coghill (UK)

Modelling the interpretation of novel compounds

Dermot Lynott, Mark T. Keane (Ireland)

Role Swapping in Multi-Agent Sensor Webs

Ronan Mac Ruairí, Mark T. Keane (Ireland)

Embodied Conversational Agent and Influences

Vincent Maya, Myriam Lamolle, Catherine Pelachaud (France)

Hig-Level Observations in Java Debugging*Wolfgang Mayer, Markus Stumptner (Australia)***A 3D Free Form Object Localization Using Skeletons: Application to teleoperation***Djamel Merad, Narjes Khézami, Samir Otmame, Malik Mallem (France)***Mapping clinical guidelines representation primitives to decision theory concepts***Stefania Montani, Paolo Terenziani (Italy)***Robel : Synthesizing and Controlling Complex Robust Robot Behaviors***Benoit Morisset, Guillaume Infantes, Malik Ghallab, Felix Ingrand (France)***Local Search for Heuristic Guidance in Tree Search***Alexander Nareyek, Stephen F. Smith, Christian M. Ohler (Ireland)***IPSS: An Hybrid Reasoner for Planning and Scheduling***Maria Dolores R-Moreno, Angelo Oddi, Daniel Borrajo, Amedeo Cesta, Daniel Meziat (Spain)***A Speech Architecture for Personal Assistants Applied in a Knowledge Management Context***Emerson Cabrera Paraiso, Jean-Paul Barthes, Cesar Tacla (France)***Identifying relational concept lexicalisations by using general linguistic knowledge***Maria Teresa Pazienza, Marco Pennacchiotti, Fabio Massimo Zanzotto (Italy)***Adaptive, Multilingual Named Entity Recognition in Web Pages***Georgios Petasis, Vangelis Karkaletsis, Claire Grover, Benjamin Hachey, Maria-Teresa Pazienza, Michele Vindigni, Jose Coch (Greece)***Extending Defeasible Logic and Defeasible Prolog***Ahti-Veikko Pietarinen (Finland)***Context Aware Personalised Service Delivery***Edoardo Pignotti, Peter Edwards, Gunnar A Grimnes (UK)***Cooperation based on communication: An approach for an autonomous driving system***Ralf Regele, Paul Levi (Germany)***Iterated Algorithm for the Optimal Winner Determination In Combined Negotiations***Aknine Samir (France)***Equilibrium Strategies for Task Allocation in Dynamic Multi-Agent System***David Sarne, Meirav Hadad, Sarit Kraus (Israel)***Symbolic Models for Diagnosing Discrete-Event Systems***Anika Schumann, Yannick Pencolé, Sylvie Thiébaux (Australia)*

Concurrent Planning by Decomposition

Laura Sebastia, Eva Onaindia, Eliseo Marzal (Spain)

An Intrinsic Information Content Metric for Semantic Similarity in WordNet

Nuno Seco, Tony Veale, Jer Hayes (Ireland)

An Ant Colony Genetic Algorithm

Shao Xiaowei, Shao Changsheng, Zhao Changan (China)

Kernel Machine Based Feature Extraction Algorithms for Regression Problems

Csaba Szepesvári, András Kocsor, Kornél Kovács (Hungary)

Variants of A* for Planning

Minh Tang, Amol Mali (USA)

Configuration of web-services as parametric design

Annette ten Teije, Frank van Harmelen, Bob Wielinga (The Netherlands)

A Spanish-Catalan Translator Using Statistical Methods

Jesús Tomás, Jaime Lloret, Francisco Casacuberta (Spain)

Defining Equivalence Classes for the Elicitation of Probability Constraints for Bayesian Networks

Linda C. van der Gaag, Eveline M. Helsen (The Netherlands)

A Qualitative Representation of Trajectory Pairs

Nico Van de Weghe, Anthony G. Cohn, Philippe De Maeyer (Belgium)

Postponing Branching Decisions

Willem Jan van Hoeve, Michela Milano (The Netherlands)

Contextualized Abstraction for Assertion-Level Theorem Proving

Quoc Bao Vo (Germany)

Automatic Recognition of Famous Artists by Machine

Gerhard Widmer, Patrick Zanon (Austria)

Soft Constraints with Partially Ordered Preferences

Nic Wilson (Ireland)

NGP: Numerical Graph Planning

Joseph Zalaket, Guy Camilleri (France)

Topological Localization using Decentralized Concept Lattices

Emmanuel ZENOU, Malik GHALLAB, Manuel SAMUELIDES (France)

Domain Representation Assisting Cognitive Analysis

Antoaneta Sergueeva, Tariq Khan (United Kingdom)

Autonomous Cache-Provision Agreement for Scalability of Directory Facilitator in MAS

Abdul Ghafoor, Bilal Mustafa, H. Farooq Ahmad, Arshad Ali, Hiroki Suguri, Zaheer Abbas

INVITED TALKS

Christian Freksa Univ. Bremen, Germany

Spatial Cognition-An AI Perspective



Christian Freksa holds the chair of Cognitive Systems at the Informatics Department of Universität Bremen. He is the coordinator of the Transregional Collaborative Research Center and of the International Quality Network on Spatial Cognition at the Universities Bremen and Freiburg. Freksa received his B.S. in computer science from University of San Francisco in 1974 and his M.S. (1976) and Ph.D. (1981) in computer science from the University of California, Berkeley. His general research interests include knowledge representation and reasoning, specifically temporal and spatial reasoning and reasoning with incomplete, imprecise, fuzzy, and conflicting knowledge. He is particularly interested in approaches of qualitative and neighborhood-based reasoning.

Tuesday, 24th.
16:30 – 17:30
Assembly room

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After a decade of temporal reasoning in Artificial Intelligence (AI) in the 1980s and 1990s, spatial reasoning and spatial cognition have moved into the focus of interest in concentrated research enterprises since the mid 1990s. This paper describes the interdisciplinary research area of spatial cognition from an artificial intelligence perspective and motivates the interest in the field and the challenges from a cognitive perspective. It argues that all themes of cognitive science surface in spatial cognition and that spatial cognition is particularly suitable to investigate these themes. The particular significance of spatial structures for knowledge acquisition and knowledge processing by cognitive agents is described; it is shown why spatial structures are instrumental in making sense of physical environments and abstract worlds. Basic approaches to computationally process spatial knowledge are sketched out; the role of qualitative reasoning in AI is compared to the role of qualitative approaches in other disciplines. The relative merits of intrinsically spatial and of more abstract, non-spatial ways of dealing with spatial knowledge are discussed. The role of schematic representation of spatial knowledge is addressed.

Gloriana Davenport MIT, USA

Media Fabrics: the problem of time in personal media making

Wednesday, 25th.
11:00 – 12:00
Assembly room



Storytelling is an activity of intelligent play generated by humans for the benefit of humans. Qualities of intelligent play reflect the intentions, processes and tools that are available to humans for the purpose of story construction. Personal media collections speak to intention and can serve as a tool to help us better communicate who we are and who we would like to become. Augmented by computer readable meta-data, computers can help us navigate these collections. However, if computers are to become collaborators and provocateurs, they need to better “understand” story mechanisms. In particular, the computer needs a model that allows it to reconfigure the temporality of the narrative. In this paper we focus on mental models used by the observational filmmaker in image capture and editing, and propose an approach to temporal representation of media segments that could serve future interactions with the media fabric.

Glorianna Davenport is a founding member of the MIT Media Lab where she serves as principal research associate and heads the Interactive Cinema Group. She is co-founder of Media Lab Europe where she heads the Story Networks Group. Trained as a documentary filmmaker, her research focuses on technological and aesthetic innovation that supports the creation of customizable, personalizable media stories, that enables genuine understanding of multiple points of view, and that supports creation and sharing of media stories by all people. Over the past 20 years, she has pioneered new methods in digital media including "Evolving Documentary" and "Very Distributed Storytelling." Her most recent collaborative work, "Flights of Fantasy," was premiered at Boston's CyberArts festival 2001. She has published, taught and exhibited. She is a recipient of M.I.T.'s Gyorgy Kepes prize for excellence in the arts.



Seppo Laukkanen

Sensitrix, Finland

Adding intelligence to virtual reality

Thursday, 26th
11:00 – 12:00
Assembly room

Virtual reality systems have reached a certain level of maturity in terms of visual and aural quality, but the sense of presence also requires believably behaving environment. A new field of adding intelligence into virtual environments is emerging. We describe shortly the field of virtual reality, and how AI can be applied there. We outline the possibilities of using AI to enhance existing applications, like a training environment for astronauts.

Seppo Laukkanen is a founder and managing director of company SenseTrix. SenseTrix is a Finnish company focused on virtual reality business. Seppo has also been giving lectures on many fields at IT-business at Lahti Polytechnic, Espoo-Vantaa Institute of Technology and Helsinki University. He is also a founder of VR-lab at Lahti Polytechnic. Seppo has been working with virtual reality since 1995, within institutes like VTT and Fraunhofer Institut before his

own company on the field. He is respected partner across Europe. One of the latest projects he has been involved with was VIEW of The Future. Seppo holds degree of Engineering at Information Technology.

Seppo's work on virtual reality has been focused mostly on PC/Windows based virtual reality, although has done some work also on Linux and Unix-platforms. He's goal is to bring very good quality, but low cost virtual reality to reachable distance for everyone. Among this, he has recently also been concentrating little bit to augmented reality, trying to bring these two worlds together for a product family. During his career he has done multiple publications, and he has been interviewed by his work for Finnish national TV news and radio. There have also been some articles about his work at Finnish magazines.

Carole Goble

Fri day, 26th.
11:00 – 12:00
Assembly room



Manchester Univ., UK

The Semantic Grid: Myth Busting and Bridge Building

The Semantic Grid is an extension of the current Grid in which information and services are given well-defined meaning, better enabling computers and people to work in cooperation. The full richness of the Grid ambition depends upon realizing the Semantic Grid, but it is still, to many, a mysterious hybrid of the Semantic Web and the Grid, both of which are subject to myths and misunderstandings. In this paper we explain the changing landscape of the Grid, and describe the bridge-building and myth busting needed to achieve the Semantic Grid.

Carole Goble is Professor in the Department of Computer Science in the University of Manchester, where she is the co-Director of the Information Management Group and. Her research interests are centred on knowledge based information systems, particularly on the use of ontologies for the representation and classification of metadata. She works in many application areas, but primarily in Life Sciences. She currently has a leading role in two major international initiatives: the Semantic

Web and the Grid, combined into the Semantic Grid. She plays a significant role in the UK e-Science programme where she sits on the national Steering Committee; co-directs of the E-Science North West regional e-Science Centre; and is Director of a \$5million e-Science pilot project that uses Semantic Web technologies and Grid middleware to build a platform for bioinformatics. Carole is co-chair of the Semantic Grid Research Group of the Global Grid Forum standards organisation, chaired the first Semantic Web track of the World Wide Web Conference in 2002, serves on many committees including the international Semantic Web Science Association and the EU/NSF joint ad hoc committee Semantic Web Services Initiative and the management board of the EU FP6 NoE KnowledgeWeb, of which she is the research co-director. She is an Editor-in-Chief of the Elsevier Journal of Web Semantics and is a founder of a start up company, Network Inference, specialising in technologies for the Semantic Web.

Schedule

Sunday 22th, August

09.00-10.30 T02 | T08 | T10 | W05 | W08 | W14 | W19

10.30-11.00 

11.00-13.30 T02 | T08 | T10 | W05 | W08 | W14 | W19

13.30-15.30 

15.30-17.30 T11 | W05 | W08 | W14 | W19 | W09 | W16 | W18
W27 | W28 | W23 | W11

17.30-18.00 

18.00-19.30 T11 | W05 | W08 | W14 | W19 | W09 | W16 | W18
W27 | W28 | W23 | W11

Monday 23th, August

09.00-10.30 T03 | T04 | T09 | W09 | W16 | W18 | W27 | W28 | W23
W11 | W03 | W02 | W20 | W01 | W21 | W22 | W26 | W10

STAIRS | Room 005

10.30-11.00 

11.00-13.30 T03 | T04 | T09 | W09 | W16 | W18 | W27 | W28 | W23
W11 | W03 | W02 | W20 | W01 | W21 | W22 | W26 | W10

STAIRS | Room 005

13.30-15.30 

15.30-17.30 T04 | T05 | W03 | W02 | W20 | W01 | W21 | W22
W26 | W12 | W15 | W04 | W06 | W25 | W07
W13 | W10

STAIRS | Room 005

17.30-18.00 

18.00-19.30 T04 | T05 | W03 | W02 | W20 | W01 | W21 | W22
W26 | W12 | W15 | W04 | W06 | W25 | W07
W13 | W10

STAIRS | Room 005

Tuesday 24th, August

09.00-10.30 T06 | T01 | W12 | W03 | W15 | W02 | W04
W06 | W25 | W07 | W13 | W17

STAIRS | Room 005

10.30-11.00 

11.00-13.30 T06 | T01 | W12 | W03 | W15 | W02 | W04
W06 | W25 | W07 | W13 | W17

STAIRS | Room 005

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13.30-15.30 

15.30-16.30 **Official Opening**
Assembly Room

16.30-17.30 **Invited Talk**
Spatial Cognition - An AI perspective
Christian Freksa
Assembly Room




17.30-18.00 

18.00-19.30 ML-1 | Room 003
KR-1 | Room 004
Reas-1 | Room 005
CSP-1 | Room 013
Agent-1 | Room 012

20.30 **Reception Party**

Wednesday 25th, August

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09.00-10.30	ML-2 Room 003 KR-2 Room 004 Reas-2 Room 005 CSP-2 Room 013 Plann-1 Room 012
10.30-11.00	
11.00-12.00	Invited Talk Media Fabrics: The problem of time in personal media making <i>Glorianna Davenport</i> Assembly Room
12.00-13.30	ML-3 Room 003 KR-3 Room 004 Reas-3 Room 005 CSP-3 Room 013 Agent-2 Room 012
13.30-15.30	
15.30-17.30	ML-4 Room 003 KR-4 Room 004 NLP-1 Room 005 CSP-4 Room 013 Agent-3 Room 012 Robot Room 011
17.30-18.00	
18.00-19.30	ML-5 Room 003 KR-5 Room 004 Reas-4 Room 005 CSP-5 Room 013 Agent-4 Room 012 CBR Room 011
19.30-20.30	Poster Session A ECCAI General Assembly Room 001
20.30-21.30	Concert Assembly Room

Thursday 26th, August

09.00-10.30 ML-6 | Room 003
 KR-6 | Room 004
 Reas-5 | Room 005
 CSP-6 | Room 013
 PAIS-1 | Room 012

10.30-11.00 

11.00-12.00 **Invited Talk**
Adding intelligence to virtual reality
Seppo Laukkane
 Assembly Room

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12.00-13.30 ML-7 | Room 003
 KR-7 | Room 004
 Reas-6 | Room 005
 Plann-2 | Room 013
 PAIS-2 | Room 012

13.30-15.30 

15.30-17.30 ML-8 | Room 003
 KR-8 | Room 004
 NLP-2 | Room 005
 Agent-5 | Room 013
 PAIS-3 | Room 012
 GA/E/Philo | Room 011

17.30-18.00 

18.00-19.30 ML-9 | Room 003
 Plann-3 | Room 004
 Vision-1 | Room 005
 Agent-6 | Room 013
 PAIS-4 | Room 012
 NN | Room 011

19.30-20.30 Poster Session B

21.30 **Banquet**

Friday 27th, August

09.00-10.30 ML-10 | Room 003
KR-9 | Room 004
Reas-7 | Room 005
Plann-4 | Room 013
Cognit-1 | Room 012

10.30-11.00 

11.00-12.00 **Invited Talk**
**The Semantic Grid: Myth Busting
and Bridge Building**
Carole Goble
Assembly Room

12.00-12.30 **ECCAI Dissertation Award**
Assembly Room

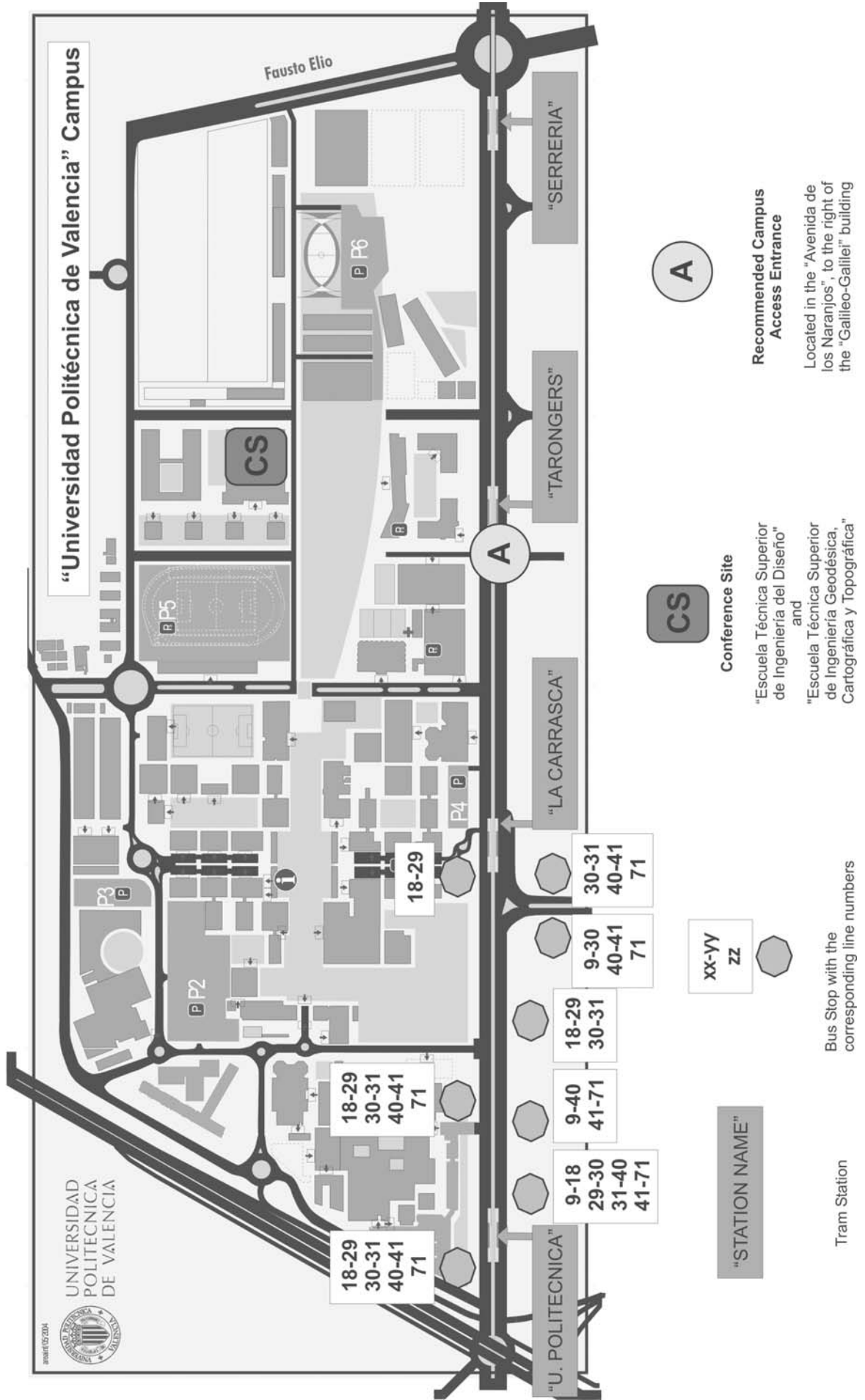
12.30-14.00 NN/KM | Room 003
VISION-2 | Room 004
Reas-8 | Room 005
KE | Room 013
Cognit-2 | Room 012

14.00-16.00 

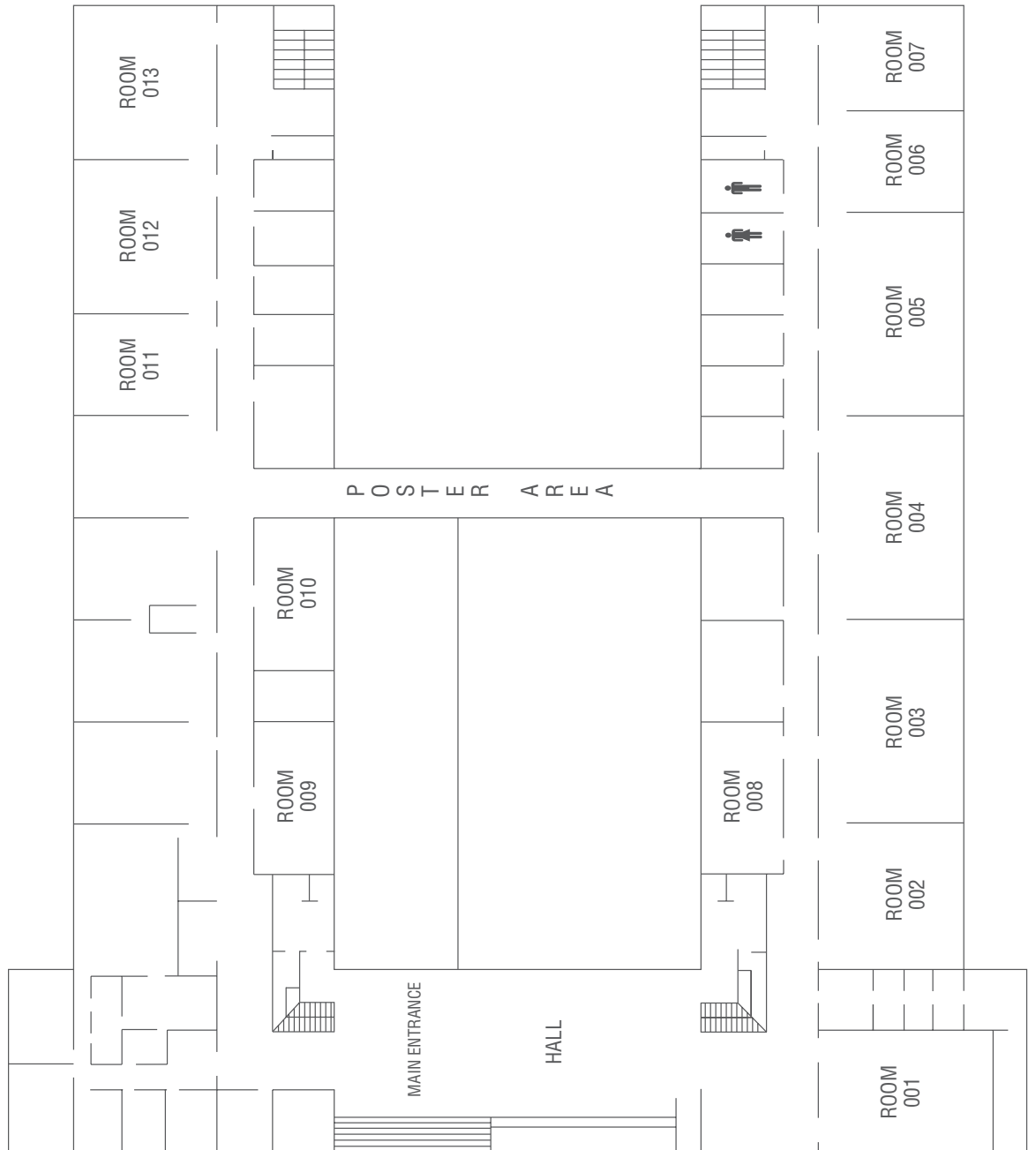
Maps¹⁶¹
UPV

Map of the Campus

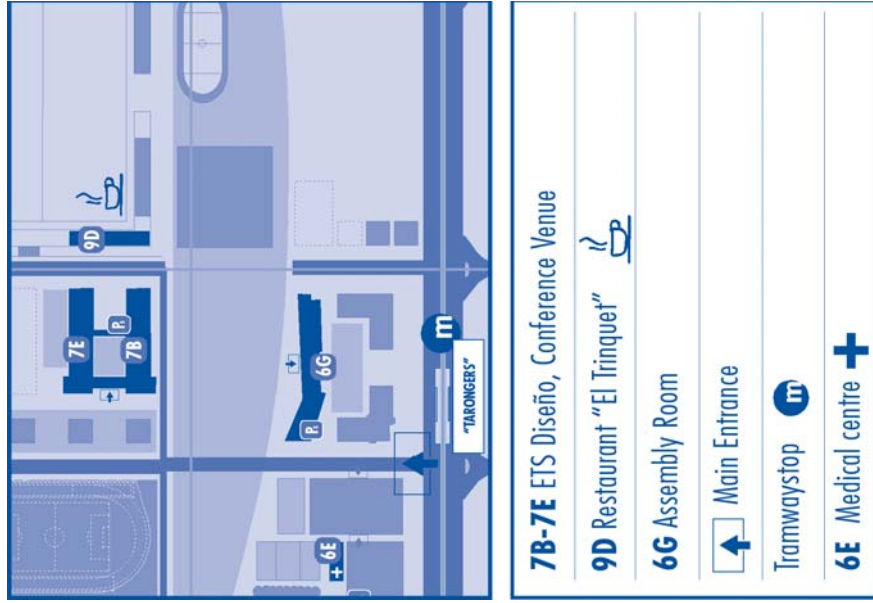
Access to the Conference Site



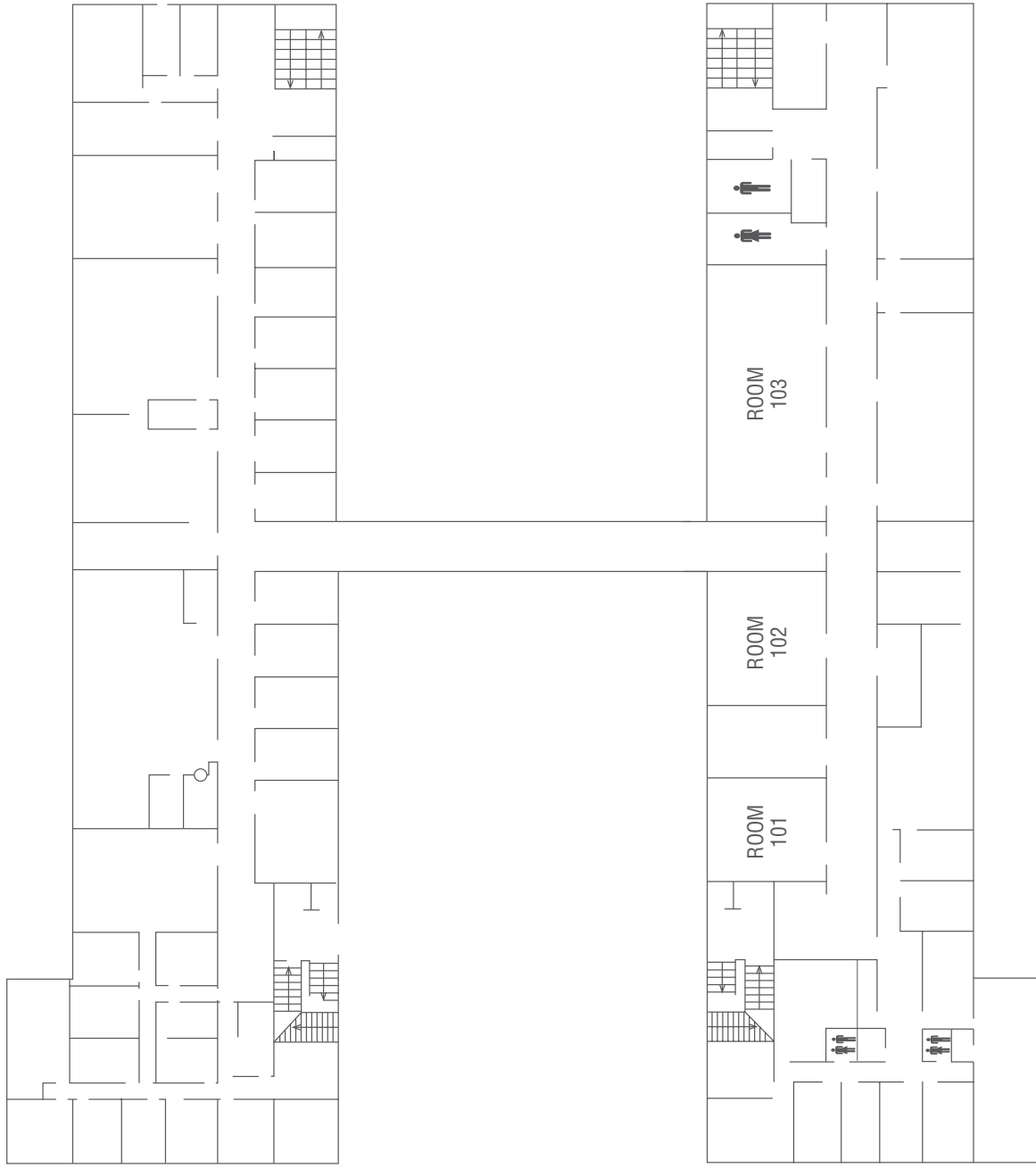
Ground Floor



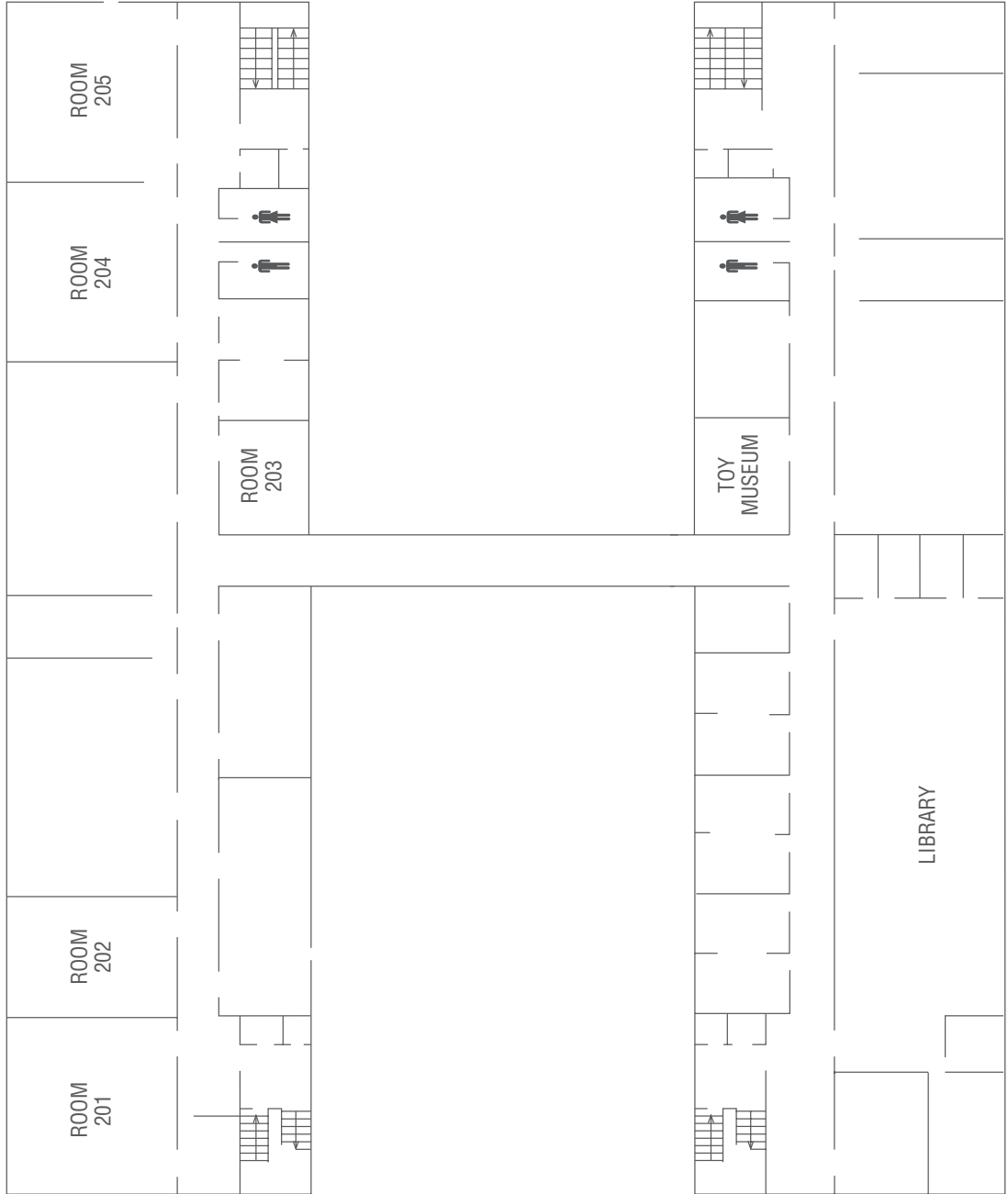
Situation of the Conference Venue inside the Campus



1st. Floor



2nd. Floor



3rd. Floor



Social Programme

Tuesday 24th, August

20.30 Reception Party

For the Reception Party we have prepared a special event we hope you all will enjoy. A giant paella will be



cooked in the gardens in front of the main building. You will have the opportunity to see and admire the art of cooking a paella-type rice. Also, you will be able to taste other typical valencian delicatessen.

This culinary event will be accompanied by the Railes band, a mixture of jazz and soul which will provide us an agreeable afternoon.

Giant-sized valencian paella



Railes band, led by guitarist Roberto Giménez, was formed in 1993 and several musicians have joined the group ever since. Railes style is a mixture of jazz and soul, they have evolved from an electric blues towards the rhythmic groove and

elegant midnight blues-jazz. They have four album Railes Blues (Subterráneo, 1995), Hold Your Fire (Big Band, 2000) - that received excellent criticism- and We Love That Groove! (Saimel, 2003) that got the sponsorship of the Instituto Valenciano de la Música in 2003. The last album is The Jazz & Blues Influence (EGT/UPV, 2004) published by the Universidad Politécnica de Valencia.

Wednesday 25th, August

20.30 **Concert**
Assembly Room

CUARTETO HISPANICO

Anabel G. del Castillo – violin

Concertino de la Orquesta de Valencia

Gumer Campos – violin

Profesora del Conservatorio

Superior Joaquín Rodrigo de Valencia

Stefan D. Pop – viola

Profesor de la Orquesta de Valencia

Elena Solanes – cello

Profesora del Conservatorio José Iturbi de Valencia

PROGRAMME

- | | |
|-------------------|---------------------------------------|
| H.Purcell | · <i>Trumpet Tune</i> |
| W.A.Mozart | · <i>Allelujah Kv 165</i> |
| J.Massenet | · <i>Meditación</i> |
| J.Strauss (padre) | · <i>Exeter-Polka op 249</i> |
| J.S.Bach | · <i>Aria</i> |
| W.A.Mozart | · <i>Cuarteto en Do major Kv. 157</i> |
| | · <i>Allegro</i> |
| | · <i>Andante</i> |
| | · <i>Presto</i> |
| J.Lanner | · <i>Steyriche Tänze op.165</i> |

BISES

- | | |
|----------------------|--------------------------------------|
| G.Gershwin | · <i>The man I love</i> |
| G.Gershwin | · <i>I got thym</i> |
| J. F. Lamb | · <i>Bohemia Rag</i> |
| Scott Joplin | · <i>The Easy Winners (rag time)</i> |
| David E. Stone | · <i>El Tordo (Tango)</i> |
| David E. Stone | · <i>El ruiseñor (Beguine)</i> |
| David E. Stone | · <i>El Mirlo (Tango Argentino)</i> |
| Christofepher Norton | · <i>Mambo</i> |



General INFORMATION

Registration office

The Registration office is located
in Room 002
Opening times
Sunday, 22 to Thursday, 26
August, 08.00-19.30
Friday, 27 August, 08.00-12.30

Internet/Mail Connections

Internet and mail terminals are
available in room 006 and room
007.

Coffee/Lunch

Coffee and lunch will be served in
the "Trinquet".

Opening Ceremony

The Opening Ceremony will take
place on Tuesday 24th, at 15:30,
at the Assembly Room.

Reception Party

The Reception Party will be held
on the outdoors garden, the
Tuesday 24th, at 20:30.
"Railes" jazz band will provide
entertainment for this party.
Meanwhile, the attendants will
enjoy themselves tasting a giant-
sized valencian paella.

Conference Banquet

The Conference banquet will be
held on Thursday, 26th august, at
"Huerto de Santa Maria", Camino
de Cebolla s/n, El Puig-Valencia,
and starts at 21:30.

Exhibition

The exhibition is located on the
hall of the ground floor of the
Conference Venue. It will be open
from Sunday-Friday, 22-27
august, 09:00-18:00.

ACIA (Spain)

Catalan Association for Artificial Intelligence
(*Associació Catalana d'Intelligència Artificial*)

ADUIS (Ukraine)

Association of Developers and Users of Intelligent Systems

AEPIA (Spain)

Spanish Association for Artificial Intelligence
(*Asociación Española para la Inteligencia Artificial*)

AFIA (France)

French Association for Artificial Intelligence
(*Association Française pour l'Intelligence Artificielle*)

ECCAI Member Societies

Currently, the following AI societies are members of ECCAI, the European Coordinating Committee for Artificial Intelligence

AIAI (Ireland)

Artificial Intelligence Association of Ireland

AIIA (Italy)

Italian Association for Artificial Intelligence
(*Associazione Italiana per l'Intelligenza Artificiale*)

AISB (United Kingdom)

Society for the Study of Artificial Intelligence and the Simulation of Behaviour

APPIA (Portugal)

Portuguese Association for Artificial Intelligence
(*Associação Portuguesa para a Inteligência Artificial*)

BAIA (Bulgaria)

Bulgarian Artificial Intelligence Association

BCS-SGES (United Kingdom)

British Computer Society Specialist Group on Knowledge Based Systems and Applied Artificial Intelligence

BNVKI (Belgium/Netherlands)

Belgian-Dutch Association for Artificial Intelligence
(*Belgisch- Nederlandse Vereniging voor Kunstmatige Intelligentie*)

CSKI (Czech Republic)

Czech Society for Cybernetics and Informatics
(*Ceská společnost pro kybernetiku a informatiku*)

IAAI (Israel)

Israeli Association for Artificial Intelligence

LANO (Latvia)

Latvian National Organisation of Automatics
(*Latvijas Automatikas Nacionāla Organizācija*)

LIKS-AIS (Lithuania)

Lithuanian Computer Society—Artificial Intelligence Section
(*Lietuvos Kompiuterininku Sąjunga*)

NAIS (Norway)

Norwegian Artificial Intelligence Society

NJSZT (Hungary)

John von Neumann Society for Computing Sciences
(*Neumann János Számítógéptudományi Társaság*)

ÖGAI (Austria)

Austrian Association for Artificial Intelligence
(*Österreichische Gesellschaft für AI*)

RAAI (Russia)

Russian Association for Artificial Intelligence

SAIS (Sweden)

Swedish Artificial Intelligence Society

SGAICO (Switzerland)

Swiss Group for Artificial Intelligence and Cognitive Science
(*Schweizer Informatiker Gesellschaft*)


SLAIS (Slovenia)

Slovenian Artificial Intelligence Society
(*Slovensko društvo za umetno inteligenco*)

SSKI SAV (Slovak Republic)

Slovak Society for Cybernetics and Informatics at Slovak Academy of Sciences
(*Slovenská spoločnosť pre kybernetiku a informatiku pri Slovenskej akadémii vied*)

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European Coordinatin Committee
for Artificial Intelligence



Asociación Española
de Inteligencia Artificial



Associació Catalana
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