

IADIS International Intelligent Systems and Agents 2007

PRELIMINARY CONFERENCE PROGRAM

Tuesday 3rd, July 2007

10:30-20:00 Welcome Desk

**11:30-12:00 Session O – Opening Session
(Room: Castelo I)**

OPENING SESSION

Prof. Antonio Palma dos Reis and Prof. Pedro Isaias

**12:00-13:00 Session KL1 – Keynote Presentation
(Room: Castelo I)**

MULTI-AGENT COORDINATION IN LARGE SCALE, OPEN AND DYNAMIC ENVIRONMENTS

Professor Katia Sycara, Director of the Intelligent Software Agents Lab, Carnegie Mellon University, USA

13:00-14:30 Lunch Break

**14:30-16:20 Session FP 3.1
Agent Models and Architectures // Simulation
(Room: Castelo I)**

EXPERIENCES IN AUTOMATED WORKFLOWS USING DIALECTICAL ARGUMENTATION (F_094)

Visara Urovi, Stefano Bromuri, Jarred McGinnis, Kostas Stathis and Andrea Omicini

DYNAMIC ANALYSIS OF AGENT FRAMEWORKS IN SUPPORT OF A MULTIAGENT SYSTEMS REFERENCE MODEL (F_073)

William M. Mongan, Christopher J. Dugan, Robert N. Lass, Andrew K. Hight, Jeff Salvage, William C. Regli and Pragnesh J. Modi

GAINING UNDERSTANDING OF ACTIVATED SLUDGE MODEL NO. 1 (F_020)

Iván Machón, Hilario López and Antonio Robles

EXTENDING GOAL SEMANTIC FOR BDI AGENTS (S_081)

Duong Nguyen and Simon Thompson

**14:30-16:40 Session FSP 3.2
Intelligent Systems // Simulation // Intelligent Internet Systems
(Room: Castelo III)**

HIERARCHICALLY DISTRIBUTED AGENTS FOR THE PROACTIVE MANAGEMENT OF NETWORKS (F_099)

Luis Cesar Dias Morais, Celso de Renna e Souza and Sérgio Roberto Matiello Pellegrino

INTEGRATING MULTIAGENT BASED KNOWLEDGE AND INFORMATION DISTRIBUTION SYSTEMS AND TEMPORAL REASONING FOR DETECTION OF TEMPORAL DISCREPANCIES IN PROJECT ACTIVITIES (S_054)

Sara Elena Garza Villarreal and José Luis Aguirre Cervantes

RE-CONFIGURABLE AVIONICS ARCHITECTURE ALGORITHM FOR EMBEDDED APPLICATIONS (S_085)

CM Ananda

A PSO-BASED MECHANISM FOR ADAPTIVE CONTROL IN MANUFACTURING SYSTEMS (S_102)

Dania Adnan El-Kebbe and Nils Kretzschmar

A DISTRIBUTED AGENT SYSTEM FOR DYNAMIC OPTICAL PATH PROVISIONING (S_061)

R. Voicu, I. Legrand, H. Newman, C. Dobre and N. Tapus

INTERNET POWERED INTELLIGENT NAVIGATION AND ASSISTANCE: AN INDIAN PERSPECTIVE (S_080)

S. Maji, Abhishek Agarwal, Siddharth Arora and Sparsh Gupta

16:30-17:00 Coffee Break

**17:00-18:00 Session KL2 – Keynote Presentation
(Room: Castelo I)**

SENSOR NETWORKS

Professor Alex Rogers, Intelligence, Agents, Multimedia Group School of Electronics and Computer Science, University of Southampton, UK

18:00-19:10 Session FSP 3.3

Agent Ontologies

(Room: Castelo I)

DEFAULT REASONING WITH ONTOLOGIES (F_022)

J.L. Castro, M. Navarro, J.M. Sanchez and J.M. Zurita

TOLOGY NEGOTIATION IN AN INTELLIGENT AGENTS DYNAMIC SYSTEM FOR MILITARY RESOURCES AND CAPABILITIES PLANNING (S_038)

Marc Rabaey, Céline Van Damme, Koenraad Vandenborre, Eddy Vandijck and Martin Timmerman

LEARNING SERVICES BASED ON FORMAL CONCEPT REASONING (S_036)

Gonzalo A. Aranda-Corral, Joaquín Borrego-Díaz and Antonia M. Chávez-González

Wednesday 4th, July 2007

08:30-13:00 Welcome Desk

09:00-10:00 Session FP 4.1

Algorithms

(Room: Castelo I)

ADAPTIVE WEIGHTED AVERAGE SENSOR FUSION ALGORITHMS FOR MOBILE ROBOTS (F_083)

Keren Kapach and Yael Edan

CALCULATING THE NORMALIZED MAXIMUM LIKELIHOOD DISTRIBUTION FOR BAYESIAN FORESTS (F_092)

Hannes Wettig, Petri Kontkanen and Petri Myllymäki

**10:00-11:00 Session KL3 – Keynote Presentation
(Room: Castelo I)**

TRUST IN INTELLIGENT AGENTS

Professor Fatemeh (Mariam) Zahedi, Wisconsin Distinguished Professor, University of Wisconsin-Milwaukee, USA

11:00-11:30 Coffee Break

11:30-13:10 Session FSP 4.2

Multi-Agent Systems

(Room: Castelo I)

RATING THE CREDIBILITY OF INFORMATION IN KMS THROUGH A MULTI-AGENT ARCHITECTURE (F_033)

Juan Pablo Soto, Aurora Vizcaino, Javier Portillo-Rodríguez and Mario Piattini

MAGR: INTEGRATING MOBILITY OF AGENTS WITH ORGANIZATIONS (F_021)

M.Saber and J.Ferber

STABILISATION OF AGGRESSIVE POPULATION IN SIMULATION ENVIRONMENT (S_032)

Stanislav Vassiljev and Jaak Tepandi

MULTI-AGENT ARCHITECTURES FOR FAULT TOLERANT NETWORKED CONTROL SYSTEMS (S_069)

Mário J. G. C. Mendes, Bruno M. S. Santos and José Sá da Costa

11:30-12:45 Session FRP 4.3

Agent Applications // Agent Technologies

(Room: Castelo III)

DEVELOPMENT OF AN AGENT-BASED PATIENT SCHEDULING SYSTEM PROTOTYPE (F_060)

Even Åby Larsen and Einar Jakob Hovland

EATS: AN AGENT-BASED AIR TRAFFIC SIMULATOR (F_105)

Jose M. Canino Rodríguez, Jesús García Herrero, Juan Besada Portas and Luis Gómez Déniz

DEVELOPMENT AND INHIBITION OF LEARNING ABILITIES IN AGENTS AND INTELLIGENT SYSTEMS (R_058)

Alexander Poddiakov

11:30-13:00 Poster Session

(Hall)

FRAME BASED INFORMATION DESIGN FOR AN ARTIFICIAL ACCOMMODATION SYSTEM (P_028)

K. P. Scherer

INTELLIGENT WEARABLE SYSTEM FOR CONTINUOUSLY MONITORING THE HEARTBEAT (P_039)

Ricardo José Teodoro Seromenho, Gil Manuel Magalhães de Andrade Gonçalves and João Paulo Marques Tavares Correia

EXPLORING COMPLEX NETWORKS USING MULTI-AGENT APPROACH (P_046)

Kamila Olševičová

ADAPTIVE PERSONAL TRAIT MODEL FOR VIRTUAL INHABITANT (P_066)

Jeong-Woo Kwon, Se-Jin Ji and Jong-Hee Park

AN APPLICATION ALLOCATION ALGORITHM FOR PERVASIVE ENVIRONMENTS (P_067)

Oleg Davidyuk, Jukka Riekkki and Josu Ceberio

DEVELOPING AN INTELLIGENT TABLE TENNIS UMPIRING SYSTEM (P_086)

Patrick K. C. Wong

13:00-14:30 Lunch Break

15:00 Tour and Conference Dinner

We visit the city of Lisbon, driving along the Avenida da Liberdade, considered the most important avenue in the city, which lead us to the downtown. Passing the Rossio and the Commerce Square, along the river Tejo we reach the quarter of Belém, where we will see the most important monuments of the city. This was the place where Portuguese navigators started their voyages throughout the seas and discovered new routes and lands, which made the 15th and 16th centuries the “golden age” of Portuguese history. The Belém Tower was the fortress which defended the entrance of the harbour of Lisbon and, along with the Jeronimos Monastery, is World Heritage of UNESCO, masterpieces of the Portuguese manueiline style.

We continue to the mouth of the river heading to the coastal glamorous places Estoril and Cascais, once residence of European nobles.

Along the coast of Guincho, we will reach Cabo da Roca, westernmost point of continental Europe, “where the land ends and the sea begins”.

Our next highlight will be the romantic town of Sintra, we drive along the mountain range, World Heritage of UNESCO, as “cultural landscape”, due to the lush vegetation and the magnificent monuments built along the centuries and the history of Portugal. Lord Byron named it “the glorious eden”.

After the visit of the town, once summer residence of Portuguese royalty, we proceed to a typical restaurant, where our dinner will take place.

Tickets for this can be bought at the welcome desk.

Thursday 5th, July 2007

08:30-17:00 Welcome Desk

09:20-11:00 Session FSP 5.1

Artificial Intelligence // Computational Intelligence

(Room: Castelo I)

CAPTURING IMMEDIATE INTERESTS IN AMBIENT INTELLIGENCE ENVIRONMENTS (F_019)

Anton Nijholt

NEGLECTING SEMANTIC RELATIONS: CONSEQUENCES AND PROPOSALS (F_068)

Francisco Alvarez Montero, Antonio Vaquero Sánchez, Fernando Sáenz Pérez and Manuel de Buenaga Rodríguez

AN AUTOMATIC SUMMARIZATION SYSTEM USED AS A DECISION MAKING TOOL (S_100)

Paulo C F de Oliveira, Edson Wilson Torrens and Sidney Schossland

OPTIMUM FINITE IMPULSE RESPONSE DIGITAL FILTER DESIGN USING COMPUTATIONAL INTELLIGENCE BASED OPTIMIZATION ALGORITHMS (S_034)

Flávio C. A. Teixeira

11:00-11:30 Coffee Break

11:30-13:30 Session FR 5.2

Agent Applications and Technologies

(Room: Castelo I)

USING LEARNING OBJECTS FOR INTELLIGENT AGENTS IN EDUCATION (F_072)

Dorian Stoilescu

A DYNAMIC BINDING TECHNOLOGY FOR AGENT-BASED GEO-INFORMATION SYSTEMS (F_091)

Abdullah Al-Zakwani, Haralambos Mouratidis and Allan Brimicombe

SOCIAL AND SPATIAL ORGANISATIONS IN MULTI-AGENT SYSTEMS (F_070)

Maya Rupert, Salima Hassas, Carlos Li and Richard Paweska

INTELLIGENT AGENTS AS A MECHANISM OF THE SYNCHRONIZATION OF WEB AND HUMAN SERVICES (R_056)

Boris Peltsverger, Alexander Yemelyanov, Yi Chen and Ben Zhou

MULTI-AGENT TRAFFIC SIMULATION USING GIS (R_052)

Pavel Dergel, Petr Fuks and Lucie Hrubá

13:30 Best Paper Awards Ceremony and Closing Session (Castelo IV)

Prof. Antonio Palma dos Reis and Prof. Pedro Isaias