# PAAMS 13
Practical Applications of Agents and Multi-Agent Systems

## PROGRAMME

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### General SCHEDULE

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### PLENARY SPEAKERS

| Plenary Speakers                                                     | 14   |
SOCIAL EVENTS & LUNCHES

Wednesday - 21:30h - Palacio Anaya
Reception dinner

Wednesday - 23:30h - Berlin Theatre
We are pleased to invite you to enjoy a concert at Fashion Pub at Salamanca, Berlin Theatre Pub at 23:30h.

Thursday - 9:00h - Salamanca Tour
The meeting point for the guided visit will be the principal entrance of the “Palacio de Congresos” (Venue).

Thursday - 21:30 h - Alameda Palace
Gala dinner

Thursday - 24:00h - Torero Café Bar
We are pleased to invite you to Fashion Pub Café Torero Bar at 24:00h. Requied Conferences ID.

Lunches of Wednesday, Thursday and Friday takes place in Palacio de Congresos at 13:30h

Alameda Palace
Paseo de la Estación, 1,

Berlin Theatre Bar
Calle de la Correhuela, 9,

Cafe Torero Bar
Plaza del Corrillo, 19

Palacio Anaya
Plaza Anaya S/N

CONGRESS HALL - PALACIO DE CONGRESOS
MAPS AND VENUE

WI-FI Connection

In your accreditation you can find the user and password for the wi-fi connection inside the Conference Venue.

The name of wi-fi network is: **PalacioCongresos**

Once you are connected you have to fill the following form with you user and password:
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<td>10:00-10:30</td>
<td>Registration (starting at 09:00)</td>
<td>Guided Visit (09:00-10:30)</td>
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<td>Opening (10:15) - Sala Menor</td>
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<td>Coffee break + Demo Session</td>
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<td>17:30-18:00</td>
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<td>PAAMS 6 CONTEXTS MASE  DCAl ISAMI PACBB</td>
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PAAMS 2013 Sessions

PAAMS - Main track

PAAMS 1 - Crowds Modelling and Analysis
WEDNESDAY 22 MAY, 2013 (11:30-13:30) - Sala menor
Chair: Jaroslaw Kozlak - Uni. of Science and Tech. in Krakow (Poland)
Agent Perception Modeling for Movement in Crowds - Kadayoun Farahal, Kashiif Zia, Alexei Sharpsanskykh, Alois Ferscha and Lev Muchnik. (Short+Demo: 25mn)
MakkSim: MAS-based Crowd Simulations for Designer's Decision Support - Luca Crociani, Lorenza Manenti and Giuseppe Vizzari. (Short+Demo: 25mn)
Multi-Agent Systems Platform for Mobile Robots Collision Avoidance - Angel Soriano, Enrique J Bernabeu, Angel Valera and Marina Vallés (Demo: 20mn)
IMOSHION: a simulation framework using virtual intelligent agents for workplace evacuation in case of emergency situation - Stéphane Maruejous and Caroline Chopinnaud (Demo: 20mn)
An agent-based analyses of F-formations - Kavin Preethi Narasimhan and Graham White. (Full: 30mn)

PAAMS 2 - (Multi-)Agent Design Technology
WEDNESDAY 22 MAY, 2013 (15:30-17:30) - Sala menor
Chair: Philippe Mathieu - University of Lille (France)
How to Build the Best Macroscopic Description of your Multi-agent System? - Robin Lamarche-Perrin, Yves Demazeau and Jean-Marc Vincent. (Full+Demo: 35mn)
Decentralized intelligent real world embedded systems: a tool to tune design and deployment - Jean-Paul Jamont, Michel Ocello and Eduardo Mendes. (Full+Demo: 35mn)
A Brownian Agent Model for Analyzing Changes in Product Space Structure in China - Bin Jiang, Chao Yang and Takao Terano (Demo: 20mn)
Reverse Engineering of Multi-Agent Systems - Ricardo Perez-Castillo, Juan Pavón, Jorge J. Gómez-Sanz and Mario Piattini. (Full: 30mn)

PAAMS 3 - Simulation and Organization
WEDNESDAY 22 MAY, 2013 (19:00-21:00) - Sala menor
Chair: Rainer Unland - University of Duisburg-Essen, ICB
A Security Response Approach based on the Deployment of Mobile Agents - Roberto Magán Carrión, José Camacho Páez and Pedro García Teodoro. (Full+Demo: 35mn)
Demonstration of the Multi-Agent Simulator of Competitive Electricity Markets - Tiago Pinto, Isabel Pracça, Gabriel Santos and Zita Vale. (Demo: 20mn)
GAMA: a spatially explicit, multi-level, agent-based modeling and simulation platform - Alexis Drogoü, Edouard Amouroux, Philippe Caillou, Benoît Gaudou, Arnaud Grignard… (Demo: 20mn)
Dynamic organisation of the household activities for power management simulation - Edouard Amouroux and François Sempé. (Full: 30mn)

PAAMS 4 - Interaction with Artificial Agents
THURSDAY 23 MAY, 2013 (11:30-13:30) - Sala menor
Chair: Jorge Gomez-Sanz - University Computense de Madrid (Spain)
ArgCBR-CallCentre: A Call Centre based on CBR Argumentative Agents - Jaume Jordán, Stella Heras, Soledad Valero and Vicente Julian (Demo: 20mn)
Automatic Deployment of a Consensus Networks MAS - Y. Gómez, A. Palomares, C. Carrascosa and M. Rebollo (Demo: 20mn)
The Galaxian Project: A 3D Interaction-Based Animation Engine - Philippe Mathieu and Sebastien Picault (Demo: 20mn)
Automated Conflict Resolution - Nicó Rotstein, Pietro Marinelli and Sindhu Joseph. (Demo: 20mn)
Modeling dependence networks for agent based simulation of online and offline communities - Francesca Marzo, Stefano Za and Paolo Spagnolletti. (Short: 20mn)
Empirical Specification of Dialogue Games for an Interactive Agent - Guillaume Dubuisson Duplessis, Nathalie Chaignaud, Jean-Philippe Kotowicz, … (Short: 20mn)

PAAMS 5 - Decision Making and Discovery
THURSDAY 23 MAY, 2013 (15:30-17:30) - Sala menor
Chair: Vicente Julian - Polytechnic University of Valencia (Spain)
Multi-layered Satisficing Decision-Making in Oil and Gas Production Systems - Lars Lindegaard Mikkelson, Yves Demazeau and Bo Noerregaard Joergensen. (Full+Demo: 35mn)
SerenA: A multi-site pervasive agent environment that supports serendipitous discovery in research - Jamie Forth, Geraint Wiggins, Robert Stewart, Diana Benton, Ruth Aylett, … (Full+Demo: 35mn)
Preventing Elderly from Falls: The Agent Perspective in EPRs - Sebastian Ahrndt and Johannes Fähndrich. (Short+Demo: 25mn)
Towards a Multi-Avatar Macroeconomic System - Gianfranco Giuliani, Edgardo Bucciarelli, Marcello Silvestri and Paola D'Orazio. (Short: 20mn)

PAAMS 6 - Mobility, Ubiquity and Clouds
THURSDAY 23 MAY, 2013 (19:00-21:00) - Sala menor
Chair: Sascha Ossowski - University Rey Juan Carlos (Spain)
Self-organizing MAS by dynamic filtering of useless data: evaluation in the ambient domain - Valérian Guivarch, Valérie Camps, André Peninou and Simon Stucker. (Full: 30mn)
A multigagent system for resource distribution into a Cloud Computing environment - Fernando De La Prieta, Sara Rodriguez, Javier Bajo and Juan Corchado. (Full: 30mn)
X-CAMPUS: a proactive agent for ubiquitous services - Hajer Sassi and José Rouillard. (Short: 20mn)
ARMAN: Agent-based Reputation for Mobile Ad hoc Networks - Guy Guemkam, Jdamel Khadraoui, Benjamín Gáteau and Zahia Guessoum. (Full: 30mn)

PAAMS 7 - Agents for Real World Problems
FRIDAY 24 MAY, 2013 (11:30-13:30) - Sala menor
Chair: Javier Carbo - University Carlos III of Madrid (Spain)
From Real Purchase to Realistic Populations of Simulated Customers - Philippe Mathieu and Sebastien Picault.

Multi-agent models for transportation problems with different strategies of environment information propagation - Jaroslaw Kozlak, Sebastian Pisarski and Malgorzata Zabinska.

Improving classifier agents with order books information - Philippe Mathieu and Matthis Gaciarz.

MAS-BPM: Multi-Agent System Bomber Problem Model - Zina Elguedria and Boutheina Jlifi.

In addition to the short presentations of demos during sessions, demos should be demonstrated during the one of two afternoon breaks.

WEDNESDAY 22 MAY, 2013 (17:30-18:00)


MakkSim: MAS-based Crowd Simulations for Designer’s Decision Support - Luca Crociani, Lorenza Manenti and Giuseppe Vizzari.

Multi-Agent Systems Platform for Mobile Robots Collision Avoidance - Angel Soriano, Enrique J Bernabeu, Angel Valera and Marina Vallés.

IMOSHION: a simulation framework using virtual intelligent agents for workplace evacuation in case of emergency situation - Stéphane Maruejouls and Caroline Chopinaud.

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GAMA: a spatially explicit, multi-level, agent-based modeling and simulation platform - Alexis Drogoul, Edouard Amouroux, Philippe Caillou, Benoît Gaudou, Arnaud Grignard…

Demonstration of the Multi-Agent Simulator of Competitive Electricity Markets - Tiago Pinto, Isabel Praça, Gabriel Santos and Zita Vale.

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Multi-layered Satisficing Decision-Making in Oil and Gas Production Systems - Lars Lindegaard Mikkelsen, Yves Demazeau and Bo Noerregaard Joergensen.

SerenA: A multi-site pervasive agent environment that supports serendipitous discovery in research - Jamie Forth, Geraint Wiggins, Robert Stewart, Diana Bentall, Ruth Aylett, …

Preventing Elderly from Falls: The Agent Perspective in EPRs - Sebastian Ahrndt and Johannes Fähndrich.

WEDNESDAY 22 MAY, 2013 (11:30-12:30) - Aula 3

Towards Self-Explaining Agents - Johannes Fähndrich, Sebastian Ahrndt, and Sahin Albayrak

Semi-Automated Generation of Semantic Service Descriptions - Nils Masuch, Philipp Brock and Sahin Albayrak

Patience in group decision-making with emotional agents - Denis Mušić

WEDNESDAY 22 MAY, 2013 (12:30-13:30) - Aula 3

A stylized software model to explore the free market equality/efficiency tradeoff - Hugues Bersini and Nicolas van Zeebroeck

Towards a dynamic negotiation mechanism for QoS-aware service markets - Claudia Di Napoli, Paolo Pisa and Silvia Rossi

WEDNESDAY 22 MAY, 2013 (15:30-17:30) - Aula 3

Analysis of Web Usage Data for Clustering Based Recommender System - Shafiq Alam, Gillian Dobbie, Patricia Riddle, and Yun Sing Koh

Multi-label classification for recommender systems - Dolly Carrillo, Vivian F. López and María N. Moreno

If it’s on web it’s yours! - Abdul Mateen Rajput

User assistance tool for a WebService ERP - Israel Carlos Rebollo and Manuel Grana

TV-SeriesRec: A recommender system based on fuzzy associative classification and semantic information - Diego Sánchez, Ana Belén Gil and María N. Moreno

THURSDAY 23 MAY, 2013 (11:30-12:30) - Aula 3

Dynamically Maintaining Standards using Incentives - Ramon Hermoso and Henrique Lopes Cardoso

Self-organizing Prediction in Smart Grids through
Delegate Multi-agent Systems - Leo Rutten and Paul Valckeniers
Holonic Recursiveness with Multi-Agent System Technologies - Sonia Suárez, Paulo Leitao and Emmanuel Adam

SS4-ICP (Intelligent components producing and consuming knowledge and data) + SS5-BioMAS (Bio-Inspired and Multi-Agents Systems: Applications to Language) THURSDAY 23 MAY, 2013 (12:30-13:30) - Aula 3 Chair: Mari Carmen Suárez
Adding sense to patent ontologies: A representation of concepts and reasoning - María Bermúdez-Edo, Manuel Noguera, Nuria Hurtado-Torres, María Visitación Hurtado and José Luis Garrido
Representation of Clinical Practice Guideline Components in OWL - Tiago Oliveira, Paulo Novais and Jose Neves

SS7-MASMAI (Multi-Agent Systems for Safety and Security) THURSDAY 23 MAY, 2013 (15:30-17:30) - Aula 3 Chair: Antonio Fernández-Caballero and Elena Navarro
Intelligent Energy Management System for the Optimization of Power Consumption - Vicente Botón-Fernández, Máximo Pérez Romero, Adolfo Lozano-Tello and Enrique Romero Cadaval
Find It - An Assistant Home Agent - Ángelo Costa, Ester Martinez-Martín, Angel P. Del Pobil, Ricardo Simoes and Paulo Novais
Efficient People Counting from Indoor Overhead Video Camera - Juan Serrano-Cuerda, José Carlos Castillo, Marina V. Sokolova and Antonio Fernández-Caballero
Modeling Intelligent Agents to Integrate a Patient Monitoring System - Gabriel Pontes, Carlos Filipe Portela, Rui Rodrigues, Manuel Filipe Santos, José Neves, António Abelha and José Machado

SS3-AM (Agents and Mobility) FRIDAY 24 MAY, 2013 (11:30-13:30) - Aula 3 Chair: Andrew Campbell and Javier Bajo
D3S – A Distributed Storage Service - Rui Lopes and Pedro Sernadela
Evaluation of the color-based image segmentation capabilities of a compact mobile robot agent based on Google Android Smartphone - Dani Martínez, Javier Moreno, Davinia Font, Marcel Tresanchez, Tomás Pallejà, Mercè Teixidó and Jordi Palacin
Distributed and Specialized Agent Communities - Jesús Ángel Román, Sara Rodríguez and Juan Manuel Corchado
The gateway protocol based on FIPA-ACL for the new agent platform PANGEA - Alejandro Sánchez, Gabriel Villarrubia, Carolina Zato, Sara Rodríguez and Pablo Chamoso
Applying classifiers in indoor location system - Gabriel Villarrubia, Francisco Rubio, Juan F. De Paz, Javier Bajo and Carolina Zato
Geo-localization System for People with Cognitive Disabilities - João Ramos, Ricardo Anacleto, Paulo Novais, Lino Figueiredo, Ana Almeida and José Neves

Workshops

MASSES (Workshop on Multi-agent based Applications for Sustainable Energy Systems) WEDNESDAY 22 MAY, 2013 (11:30–13:30) - Aula 2 Chair: Rainer Unland
Social Control of Power System Demand Based on Local Collaborative Preferences (Invited talk) - Michael N. Huhns
Agent-Based Applications for the Smart Grid: A Play-ground for Agreement Technologies - Sascha Ossowski and Matteo Vasirani
An Agent-Based Approach for Efficient Energy Management in the Context of Smart Houses - Dima El Nabouch, Natalie Matta, Rana Rahim-Amoud, and Leila Merghem-Boulahia

AMSC (Workshop on Agent-Based Solutions for Manufacturing and Supply Chain) WEDNESDAY 22 MAY, 2013 (19:00–21:00) - Aula 2 Chair: Pawel Pawlewski
G. Bocewicz, P. Nielsen, Z. Banaszak, and Q.V. Dang - Multimodal Processes Cyclic Steady States Scheduling
Pawel Pawlewski - Situated MAS Approach for Freight Trains Assembly
Quang-Vinh Dang and Izabela Nielsen - Simultaneous Scheduling of Machines and Mobile Robots

COREDEMA (Workshop on Conflict Resolution in Decision Making) WEDNESDAY 22 MAY, 2013 (19:00–21:00) - Aula 3 Chair: Vicente Julián
Juan M. Alberola, Vicente Julián, and Ana García-Fornes - A Self-configurable Agent-Based System for Intelligent Storage in Smart Grid
E. del Val, M. Rebollo, and V. Botti - Strategies for Cooper-
AATMO (Workshop on Agent-based Approaches for the Transportation Modeling and Optimization)
THURSDAY 23 MAY, 2013 (11:30-13:30) - Aula 2
Chair: Jaroslaw Kozlak
C. David Emele, Nir Oren, Cheng Zeng, Steve Wright, Nagendra Velaga, John Nelson, Timothy J. Norman, and John Farrington - Agent-Driven Variable Pricing in Flexible Rural Transport Services
Bin Jiang, Xiao Xu, Chao Yang, Renfa Li, and Takaо Terano - Solving Road-Network Congestion Problems by A Multi-objective
Maksims Fiosins, Jorg P. Muller, and Michaela Huhn - Optimization Algorithm with Brownian Agent Model A Norm-Based Probabilistic Decision-Making Model for Autonomic Traffic Networks
Mohamed Tlig, Olivier Buffet, and Olivier Simonin - Reactive Coordination Rules for Traffic Optimization in Road Sharing Problems

CONTEXTS (Workshop on User-Centric Technologies and Applications)
THURSDAY 23 MAY, 2013 (15:30-17:30) - Aula 2
Chair: José M. Molina
María Jesús Algar, Iván González, Lorena Lozano, and Felipe Cátedra - Characterization of the Radio Propagation Channel in a Real Scenario
María Jesús Algar, Iván González, Lorena Lozano, María Fernández, Gabriel Caballero, and Felipe Cátedra - Dynamic Propagation Analysis in Urban Environments
Gonzalo Blázquez Gil, Antonio Berlanga de Jesús, and José M. Molina López - Combining Machine Learning Techniques and Natural Language Processing to Infer Emotions Using Spanish Twitter Corpus
Javier Carbo, Nayat Sanchez-Pi, David Grisol, and Jose M. Molina - Comparing Agent Interactions of Distributed and Centralized Multi-Agent Systems for Context-Aware Domains
Hernani Costa, Barbara Furtado, Durval Pires, Luis Macedo, and Amilcar Cardoso - Recommending POIs Based on the User’s Context and Intentions
Hernani Costa and Luis Macedo - Emotion-Based Recommender System for Overcoming the Problem of Information Overload

THURSDAY 23 MAY, 2013 (19:00-21:00) - Aula 2
Chair: Jesús García
David Gómez, Ana M.Bernardos, Javier I. Portillo, Paula Tarrió, and José R. Casar - A Review on Mobile Applications for Citizen Emergency Management
David Gómez, Paula Tarrió, Juan Li, Ana M. Bernardos, and José R. Casar - Indoor Augmented Reality Based on Ultrasound Localization Systems
Ram P. Krish, Julian Fierrez, Javier Galbally, and Marcos Martinez-Diaz - Dynamic Signature Verification on Smart Phones
Pedro Tome, Ruben Vera-Rodriguez, and Julian Fierrez - Analysing Facial Regions for Face Recognition Using Forensic Protocols
Ruben Vera-Rodriguez, S. Gabriel-Sanz, Julian Fierrez, Pedro Tome, and J. Ortega-Garcia - Analysis of Gait Recognition on Constrained Scenarios with Limited Data Information

MASLE (Workshop on Multi-Agent System Based Learning Environments)
THURSDAY 23 MAY, 2013 (19:00-21:00) - Aula 3
Chair: Ricardo Silveira
Cecilia E. Giuffra P., Ricardo Azambuja Silveira, and Mariana Keiko Nakayama - An Intelligent Tutoring Systems Integrated with Learning Management Systems
Ronaldo Lima Rocha Campos, Rafaela Lunardi Comarella, and Ricardo Azambuja Silveira - Multiagent Based Recommendation System Model for Indexing and Retrieving Learning Objects
Tiago Thompsen Primo, André Behr, and Rosa María Vicari - A Semantic Web Approach to Recommend Learning Objects
Valentina Tabares, Néstor Duque, Demetrio Ovalle, Paula Rodríguez, and Julián Moreno - Learning Objects Repository Management Using an Adaptive Quality Evaluation Multi-Agent System
Alejandro Valencia, Oscar Salazar, and Demetrio Ovalle - Improving the Entrepreneur’s Market Research Strategies Learning Process Using the MaREMAS Environment

A-HEALTH (Workshop on Agents and multi-agent Systems for AAL and e-HEALTH)
FRIDAY 24 MAY, 2013 (11:30-13:30) - Aula 2
Chair: Ricardo Silveira
Ricardo S. Alonso, Dante I. Tapia, Gabriel Villarrubia, and Juan F. De Paz - Agent Technology and Wireless Sensor Networks for Monitoring Patients in Residences and Their Homes
Santiago Álvarez, Oscar Salazar, and Demetrio Ovalle - User-Centered Ubiquitous Multi-Agent Model for e-Health Web-Based Recommender Applications Development
Millán Arroyo, Lucila Finkel, and Jorge J. Gomez-Sanz - Requirements for an Intelligent Ambient Assisted Living Application for Parkinson Patients
Raul Igun, Carlos Medrano, Lourdes Martin, and Inmaculada Plaza - Mobile Phone-Based Fall Detectors: Ready for Real-World Scenarios?
Iván García-Magarito - Defining and Transforming Models of Parkinson Patients in the Development of Assisted-Living Multi-agent Systems with INGENIAS
IS-MiS 2013 Sessions

IS-MiS 1
THURSDAY 23, 2013, (12.30-13.30) - Room 0.
Chair: Giovanni De Gasperis - University of L’Aquila (Italy)
Amine Chemchem and Habiba Drias - Multilevel Clustering on Very Large Scale of Web Data
Benamer Ziani, Ahmed Benmlouka and Youcef Ouinten - Improving Index Selection Accuracy for Star Join Queries Processing: An Association Rules Based Approach
Charalampos Saridakis, Stelios Tsafarakis, George Baltas and Nikolaos Matsatsinis - Advances in market segmentation through nature-inspired intelligence methods: An empirical evaluation

IS-MiS 2
THURSDAY 23, 2013 (16.30-17.30) - Room 0.
Chair: Charalampos Saridakis - Leeds University (UK)
Paula Odete Fernandes, João Paulo Teixeira, João Ferreira and Susana Azevedo - Training Neural Networks by Resilient Backpropagation Algorithm for Tourism Forecasting
R. Alejo, V. García, A. I. Marquês, J. S. Sánchez and J. A. Antonio-Velázquez - Making Accurate Credit Risk Predictions with Cost-Sensitive MLP Neural Networks
Jelena Fiosina, Maksims Fiosins and Jörg P. Müller - Mining the Traffic Cloud: Data Analysis and Optimization Strategies for Cloud-Based Cooperative Mobility Management

IS-MiS 3
THURSDAY 23, 2013 (19.00-20.00) - Room 0.
Chair: José Salvador Sánchez Garreta - Universitat Jaume I (Spain)
Stefania Costantini and Giovanni De Gasperis - Memory, Experience and Adaptation in Logical Agents
Laia Subirats, Luigi Ceccaroni, Cristina Gómez-Pérez, Ruth Caballero, Raquel Lopez-Blazquez and Felip Miralles - On semantic, rule-based reasoning in the management of functional rehabilitation processes
Gianfranco Giulioni, Edgardo Bucciarelli, Marcello Silvestri and Paola D’Orazio - A Web-based Software Model to Investigate Entrepreneurial Management

ebTEL 2013 Sessions

ebTEL - Session 1
WEDNESDAY 22 MAY, 2013 (11:30-13:30) - Room 4
TEL case studies (11.45-12.15)
Chair: Rosella Gennari - Free University of Bozen · Bolzano
Di Giacomo D., Palmiero M., Passafiume D. - Technology and Elaboration of information in Aging: preliminary data of verbal vs visual performance (15 minutes)
Maria Cinque and Maria Bortoluzzi - Promoting Digital Skills and Critical Awareness through Online Search and Personal Knowledge Management: A Case Study (15 minutes)

Evidence-based design in TEL (12.15-13.15)
Chair: Maria Cinque - Università degli Studi di Udine
Alessandra Melonio and Rosella Gennari - How to Design Games for Deaf Children: Evidence-based Guideline
Luigi Romano- How to get a good job and improve your career - with a PLE (20 minutes)
Diego Domínguez, Debi López and Jesús Gonzalo - Use of Flight Simulators in a Flight Mechanics Course: Potentials and Weaknesses

ebTEL - Session 2
WEDNESDAY 22 MAY, 2013 (15:30-17:30) - Room 4
Smart Games in the TERENCE Project (15.30-16.15)
Chair: Chair: Fernando De la Prieta - University of Salamanca
Fernando De La Prieta, Tania Di Mascio, Ivana Marenzi and Pierpaolo Vittorini - Pedagogy-driven Smart Games for Primary School Children
Vincenza Cofini, Tania Di Mascio, Rosella Gennari and Pierpaolo Vittorini - The TERENCE smart games revision guidelines and software tool (10 minutes)
Vincenza Cofini, Rosella Gennari and Pierpaolo Vittorini - The manual revision of the TERENCE Italian smart games (10 minutes)
Maria Rosita Cecilia, Tania Di Mascio and Alessandra Melonio - The 1st Release of the TERENCE Learner GUI: the User-based Usability Evaluation (10 minutes)

Evidence-based TEL tools (16.15-17.25)
Chair: Besim Mustafa
Gianfranco Giulioni, Edgardo Bucciarelli, Marcello Silvestri and Paola D’Orazio - Learning to be an Entrepreneur: Evidence From a Technology Enhanced Learning tool
Óscar García, Ricardo S. Alonso, Dante Tapia and Juan Corchado - Supporting context-aware collaborative learning activities by CAFCLA
Emiliana Pizarro Lucas, Juan Cruz Benito and Oscar Gil Gonzalo - USALSIM: Learning and Professional Practicing in a 3D Virtual World
Besim Mustafa - Simulation Still Rules: Modern Computer Systems Architecture Visualized and Laid Bare
Arto Vihavainen, Matti Luukkainen and Martin Pärtel - Test My Code: an Automatic Assessment Service for the Extreme Apprenticeship Method (14 minutes)
DCAI 2013 Sessions

DCAI 1 – MAS (Multi-agent System) I
WEDNESDAY 22 MAY, 2013 (11:30-13:30) - Sala de ensayos
Chair: José Luis Poza Luján - Universidad Politécnica de Valencia (Spain)
Omar Rihawi, Yann Secq and Philippe Mathieu - Synchronization policies impact in distributed agent-based simulations
Jose A. Maestro-Prieto, Ma Aránzazu Simón-Hurtado, Juan F. de-Paz-Santana, Gabriel Villarrubia-González - A MAS for teaching Computational Logic
Eiman Saleh, Maha Zabata and Omar Sallabi - DPS: Overview of Design Pattern Selection Based on MAS Technology
Nuno Magessi and Luis Antunes - Modeling of Agent’s Risk Perception

DCAI 2 – Bioinformatics, Biomedical Systems, e-health, Ambient Assisting Living
WEDNESDAY 22 MAY, 2013 (11:30-13:30) - Room 1
Chair: Sara Rodríguez - Universidad de Salamanca (Spain)
Xiomara Patricia Blanco Valencia, Sara Rodríguez, Juan M. Corchado and Carolina Zato - Case-based reasoning applied to medical diagnosis and treatment
João Fernandes, João Laranjeira, Paulo Novais, Goreti Marreiros and José Neves - A context aware architecture to support people with visual impairments
João Ferreira, Rafaela Rosário, Ângelo Costa and Paulo Novais - Monitoring Weight and Physical Activity using an AmI setting
Nadia Alam, Munira Sultana, M.S. Alam, M A Al-Mamun, M A Hossain - Periodic Chemotherapy Dose Schedule Optimization Using Genetic Algorithm
Silvia González, José R. Villar, Javier Sedano, and Camelia Chira - A preliminary study on early diagnosis of illnesses based on activity disturbances
Rafael Pereira and Rui Mendes - Current trends in bio-ontologies and data integration
Sérgio Matos, Hugo Araújo and José Luís Oliveira - Structuring and Exploring the Biomedical Literature Using Latent Semantics

DCAI 3 – MAS (Multi-agent System) II
WEDNESDAY 22 MAY, 2013 (15:30-17:30) - Sala de ensayos
Chair: Javier Bajo Pérez - Universidad Politécnica de Madrid (Spain)
Friederike Wall - Comparing Basic Design Options for Management Accounting Systems with an Agent-Based Simulation
Moamin A. Mahmoud, Aida Mustapha, Mohd Sharifuddin Ahmad, Azhana Ahmad, Mohd Zaliman M. Yusoff, Nurzulatul Hamimah Abdul Hamid - Potential Norms Detection in Social Agent Societies
Egons Lavendelis - Multi-Agent Architecture for Intelligent Insurance Systems
Bruno Veloso Luis Sousa and Benedita Malheiro - Personalised Advertising Supported by Agents
Artur M. eski, Bozena Wozna-Szczesniak, Agnieszka M. Zbrzezny, and Andrzej Zbrzezny - Two Approaches to Bounded Model Checking for a Soft Real-Time Epistemic Computation Tree Logic
Rula Al-Azawi, Aladdin Ayesh, Khalfan Abdullah - AL-Masruri, and Ian Kenny - Towards an AOSE: Game Development Methodology

DCAI 4 - Distributed Computing, Grid Computing, Cloud Computing
WEDNESDAY 22 MAY, 2013 (15:30-17:30) - Room 1
Chair: Daniel González Peña - Universidad de Vigo (Spain)
Miguel Ángel Rodríguez-García, Rafael Valencia-García, Francisco García-Sánchez, Jose Javier Samper-Zapater and Isidoro Gil-Leiva - Semantic annotation and retrieval of services in the Cloud.
Yesnier Bravo, Gabriel Luque and Enrique Alba - Migrants Selection and Replacement in Distributed Evolusionary Algorithms for Dynamic Optimization
José-Luis Poza-Luján, Juan-Luis Posadas-Yague and José-Enrique Simó-Ten - Event Management Proposal for Distribution Data Service Standard
Roberto González Ramos, Daniel Hernández Alfageme, Fernando De La Prieta and Ana Belén Gil González - +Cloud: An agent-based Cloud Computing platform
Amparo Jiménez, Amparo Casado, Javier Bajo Fernando De La Prieta and Juan F. De Paz - Cloud-based platform to labor integration of deaf people
Daniel Garrote-Hildebrand, José-Luis Poza-Luján, Juan-Luis Posadas-Yague and José-Enrique Simó-Ten - Mobile-Based Distributed System for Managing Abandoned or Lost Pets
Jelena Fiosina and Maksims Fiosins - Selecting the Shortest Itinerary in a Cloud-Based Distributed Mobility Network

DCAI 5 - Data mining, Information Extraction, Semantic, Knowledge Representation
WEDNESDAY 22 MAY, 2013 (19:00-21:00) - Sala de ensayos
Chair: Paulo Novais - Universidade do Minho (Portugal)
Piotr Cal and Michal Wozniak - Parallel Hoeffding Decision Tree for Streaming Data
Angelica Urrutia, Hector Valdes and José Galindo - Comparison of K-means and fuzzy c-means data mining algorithms for analysis of management information: an open source case
Andrzej Szwabe, Pawel Misiorek and Michal Ciesielczyk -
Representation of Propositional Data for Collaborative Filtering
Pedro Guldámez and Angélica González - Face Identification by Real-Time Connectionist System

Virginia Nascimento, Maria João Viamonte, Alda Canito and Nuno Silva - Agent Mediated Electronic Market Enhanced with Ontology Matching Services and Emergent Social Networks

José Javier Samper Zapater, Dolores Mª Llidó Escrivá, Juan José Martínez Durá and Ramon Cirilo - Semantic Multi-Agent Architecture to Road Traffic Information Retrieval on the Web of Data.

Cesar A. Mantilla, Victor Torres-Padrosa and Ramón Fabregat - Context- and Social-aware User Profiling for Audiovisual Recommender Systems

DCAI 6 - Artificial Intelligence Applications I
WEDNESDAY 22 MAY, 2013 (19:00-21:00) - Room 1
Chair: Fernando de la Prieta - Universidad de Salamanca (Spain)

María Navarro and Angélica González Arrieta - Automatic Prediction of Poisonous Mushrooms by Connectionist Systems

Tiago Pinto and Zita Vale - Adaptive Learning in Games: Defining Profiles of Competitor Players

Javier Calle, Leonardo Castaño, Elena Castro, Dolores Cuadra - Evaluation framework for statistical user models

Felicitas Mokom and Ziad Kobti - Suboptimal Restraint Use as an Emergent Norm via Social Influence

Roberto Amadini, Imane Seffioui, Jacopo Mauro and Maurizio Gabbrinelli - Fast Post-Disaster Emergency Vehicle Scheduling

João Laranjeira, Goreti Marreiros, João Carneiro and Paulo Novais - An emotional aware architecture to support facilitator in group idea generation process

Rubén Martínez-Vidal, Sergio Castillo-Pérez, Sergio Robles1, Adrián Sánchez-Carmona, Joan Borrell, Miguel Cordero, Antidio Viguria, Nicolás Giuditta - Mobile-Agent Based Delay-Tolerant Network Architecture for Non-Critical Aeronautical Data Communications

DCAI 7 - Image Processing, Tracking, Robotic, Control and Industrial Systems I
THURSDAY 23 MAY, 2013 (11:30-13:30) - Sala de ensayos
Chair: Dante I. Tapia - Universidad de Salamanca (Spain)

António Rebelo, Fábio Catalão, João Alves, Goreti Marreiros, Cesar Analide, Paulo Novais, José Neves - - Simulating a Team Behaviour of Affective Agents using Robocode

Sigeru Omatsu, Mitsuaki Yano and Toru Fujimaka - Odor Classification Based on Weakly Responding Sensors

Ester Martínez, Maria Teresa Escrig and Angel P. Del Pobil - Qualitative Acceleration Model: Representation, Reasoning and Application

Naoufel Khayati and Wided Lejoud-Charri - Agent and Knowledge Models for a Distributed Imaging System

William Raveane and Maria Angélica González Arrieta - Texture Classification with Neural Networks

Sergio Moreno, Manuel G. Bedia, Francisco J. Serón, Luis F. Castillo and Gustavo Isaza - Associative learning for enhancing autonomous bots in videogame design

Angel Soriano, Enrique J Bernabeu, Angel Valera and Marina Vallés - Collision Avoidance of Mobile Robots using Multi-Agent Systems

DCAI 8 – Artificial Intelligence Applications II
THURSDAY 23 MAY, 2013 (11:30-13:30) - Room 1
Chair: Carlos Carrascosa - Universidad Politécnica de Valencia (Spain)

Maksims Fiosins - Stochastic Decentralized Routing of Unsplittable Vehicle Flows based on Constraint Optimization

Maria De Lourdes Margain, Guadalupe Obdulia Gutierrez, Begoña García, Amaia Méndez, Alberto Ochoa, Alejandro de Luna and Gabriela Hernández - Ubiquitous computing to lower domestic violence rate based on emotional support social network (Redsiam).

Natalia Díaz Rodríguez, Johan Lilius, Manuel Pegalajar Cuellar and Miguel Delgado Calvo-Flores - Extending Semantic Web tools for improving Smart Spaces interoperability and usability

Natalia Kubiak and Agnieszka Stachowiak - Framework of optimization methodology with use of an intelligent hybrid transport management system based on Hopfield Network and Travelling Salesman Problem

Taras Ageykov, Jose L. Oliver, Leandro Tortosa and Jose F. Vicent - A model to visualize information in a complex streets’ network.

Fernando Maldonado, Alberto Ochoa, Julio Arreola, Daniel Azpeitia, Ariel De la Torre, Diego Canales and Saül González - Intelligent Application to reduce transit accidents in a city using Cultural Algorithms

DCAI 9 - Image Processing, Tracking, Robotic, Control and Industrial Systems I
THURSDAY 23 MAY, 2013 (15:30-17:30) - Sala de ensayos
Chair: Dante I. Tapia - Universidad de Salamanca (Spain)

Ichiro Sato - Multiagent-based MapReduce Processing

Isabel Laranjo, Joel Braga, Domingos Assunção, Andrea Silva, Carla Rolanda, Luís Lopes, Jorge Correia-Pinto - Glove-based Input for Reusing Everyday Objects as Interfaces in Smart Environments

Aleksiis Liekna, Egons Lavendelis and Agris Nikitenko - Challenges in Development of Real Time Multi-Robot System Using Behaviour Based Agents

Dani Martínez, Javier Moreno, Davinia Font, Marcel Tresánchez, Tomàs Pallejà, Mercé Teixidó, and Jordi Palacín - A Practical Mobile Robot Agent Implementation based on a Google Android Smartphone

Isabel Laranjo, Joel Braga, Domingos Assunção, Andrea Silva, Carla Rolanda, Luís Lopes, Jorge Correia-Pinto and Victor Alves - Web-based solution for acquisition, processing, archiving and diffusion of endoscopy studies

Pasquale Caianiello and Stefania Costantini and Giovanni De Gasperis and Niva Florio and Federico Gobbo - Application of Hybrid Agents to Smart Energy Management of a Prosumer Node

Fábio Silva, Cesar Analide, Luis Rosa, Gilberto Felgueiras and Cedric Pimenta - Social Networks Gamification for Sustainability Recommendation Systems

Vladimir Spitalský and Marian Grendar - OPTICS-based clustering of emails represented by quantitative profiles

Ana Lucía Casademunt and Irina Georgescu - Optimal saving and prudence in a possibilistic framework

Raúl Martínez-Moreno, José J. López-Espin, Juan Aparicio and Jesús T. Pastor - Application of genetic algorithms to determine closest targets in Data Envelopment Analysis

José L. Guerrero, Antonio Berlanga and José M. Molina - Multiobjective Local Search Techniques for Evolutionary Polygonal Approximation

Mariano Raboso Mateos and Juan Antonio Cotobal Robles - GSched: An Efficient Scheduler for Hybrid CPU-GPU HPC Systems

Vitor Pereira, Pedro Sousa, Paulo Cortez, Miguel Rio and Miguel Rocha - Robust optimization of intradomain routing using evolutionary algorithms

F.J. Glez-Cabrera, J.V. Álvarez-Bravo, Fernando Díaz - Representing Motion Patterns with the Qualitative Rectilinear Projection Calculus.

Karel Macek, Vladimír Bičík and Jiří Rojíček - “Trajectory Optimization under Changing Conditions through Evolutionary Approach and Black-Box Models with Refining”

Kyriaki Panagidi, Costas Kolomvatsos and Stathes Hadjiefthymiades - On the Use of PSO with Weights Adaptation in Concurrent Multi-Issue Negotiations

Mohammad Bashir Uddin Khan, Ghada Abaza and Peter Göhner. - Towards an Adaptable Mobile Agents’ Management System

Alberto Palomares, Carlos Carrascosa, Miguel Rebollo and Yolanda Gómez - Implementing MAS Agreement Processes Based on Consensus Networks

Fernanda Correia Barbosa, Joel P. Arrais
and José Luís Oliveira.

Analysing Relevant Diseases From Iberian Tweets - Victor M. Prieto, Sergio Matos, Manuel Álvarez Díaz, Fidel Cacheda and José Luís Oliveira.

Optimized Workflow for the healthcare logistic: Case of the Pediatric Emergency Department - Ines Ajmi, Hayfa Zgaya and Slim Hammadi.

Boosting the detection of Transposable Elements using machine learning - Rui Camacho, Tiago Loureiro, Nuno Fonseca and Jorge Vieira.

On an individual-based model for infectious disease outbreaks - Pierpaolo Vittorini and Ferdinando Di Orio.

**ISAmI 2013 Sessions**

**ISAmI - Session 1**
WEDNESDAY 22 MAY, 2013 (11:30-13:30) - Room 4
Chair: Paulo Novais

Jurriaan van Diggelen, Marc Grootjen, Emiel Ubink, Maarten van Zomeren and Nanja Smets - Content-based Design and Implementation of Ambient Intelligence Applications

Cattia Salgado, Luciana Cardoso, Pedro Gonçalves, António Abelha and José Machado - Tracking People and Equipment Simulation inside Healthcare Unit

Tomás Ruiz-López, Manuel Nogueira, Rodríguez Fórtiz, Maria José and José Luis Garrido - Requirements Systematization through Pattern Application in Ubiquitous Systems

Maria Rodríguez-Damián, Xosé Antón Vila Sobrino and Leandro Rodríguez Liñares - Indoor tracking persons using bluetooth: a real experiment with different fingerprinting-based algorithms

Davide Carneiro, Paulo Novais, Fábio Catalão, José Marques, André Pimenta and José Neves - Dynamically Improving Collective Environments through Mood Induction Procedures

Óscar García García, Ricardo S. Alonso, Dante I. Tapia and Juan M. Corchado - CAFCLA: an AmI-based framework to design and develop context-aware collaborative learning activities

**ISAmI - Session 2**
WEDNESDAY 22 MAY, 2013 (15:30-17:30) - Room 4
Chair: Angelo Costa

Víctor Corcoba Magaña and Mario Muñoz Organero - AndroWI: Collaborative system for fuel saving using Android Mobile Devices

Djalila Boughareb and Nadir Farah - A Query Expansion Approach Using the Context of the Search

Raul Igual, Inmaculada Plaza, Lourdes Martin,Montserrat Corbalan and Carlos Medrano - Guidelines to design smartphone applications for people with intellectual disability: a practical experience

Alexander Neumann and Thomas Hermann - A Verbal Interaction Measure Using Acoustic Signal Correlation for Dyadic Cooperation Support

Ricardo Anacleto, Lino Figueiredo, Ana Almeida and Paulo Novais - Server to Mobile Device Communication: A Case Study

Ángel Ruiz Zafra, Kawtar Benghazi, Manuel Nogueira and José Luis Garrido - Zappa: An Open Mobile Platform to Build Cloud-based m-Health Systems

**ISAmI - Session 4**
WEDNESDAY 22 MAY, 2013 (19:00-21:00) - Room 4
Chair: Katharina Kinder-Kurlanda

Davide Bacciu, Claudio Gallicchio, Alessandro Lenzi, Stefano Chessa, Alessio Micheli, Susanna Pelagatti and Claudio Vairo - Distributed Neural Computation over WSN in Ambient Intelligence

Iván Bernabé, Daniel Díaz-Sánchez and Mario
Muñoz-Organero - Optimizing OSGi Services on Gateways
Tanja Traxler, Louise Belzuneg Horvath and Julia Grillmayr - Extremely small and incredibly everywhere
Dipak Surie, Helena Lindgren and Arslan Qureshi - Kitchen AS-A-PAL: Exploring Smart Objects as Containers, Surfaces and Actuators
Fabio Silva, Cesar Analide, Luis Rosa, Gilberto Felgueiras and Cedric Pimenta - Ambient Sensorization for the Furtherance of Sustainability

iTEL 2013 Sessions

THURSDAY 23 MAY, 2013 (11:30-13:30) - Room 4

iTEL 1 - Learning Platforms and its applications
Chair: Javier Bajo Pérez
TANGO:H: Creating active educational games for hospitalized children - Carina Soledad González González, Pedro Toledo, Miguel Padrón, Elena Santos and Mariana Cairós
Technological platform to facilitate the labor integration of people with auditory impairments - Amparo Jiménez, Amparo Casado, Elena García, Juan F. De Paz and Javier Bajo.

iTEL 2 - Learning objects and recommendation systems
Chair: Demetrio Arturo Ovalle Carranza - National University of Colombia
Integral Multi-agent Model Recommendation of Learning Objects, for Students and Teachers - Paula Rodríguez, Néstor Duque, and Sara Rodríguez
A new generation of Learning Object Repositories based on Cloud Computing - Fernando De La Prieta, Javier Bajo, Paula Andrea Rodríguez Marín and Néstor Dario Duque Méndez
Providing Event Recommendations in Educational Scenarios - Agustín Cañas, Víctor Alonso, Juan Santos, Luis Anido and Manuel Fernández
Finding people who can contribute to learning activities: A first approach to enhance the information about experts available in a people directory - Víctor Alonso, Agustín Cañas, Juan Santos, Luis Anido and Manuel Fernández

ISAmI - Session 3
THURSDAY 23 MAY, 2013 (15:30-17:30) - Room 4
Chair: Ichiro Satoh
Aida Omerovic, Anders Kofod-Petersen, Bjørnar Solhaug and Ingrid Svagård - Elicitation of Quality Characteristics for AAL Systems and Services
Roni Ram, Francesco Furfari, Michele Girolami, Gema Ibañez Sanchez, JuanPablo Lázaro Ramos, Christopher Mayer, Barbara Prazak-Aram and Tom Zentek - universAAL: Provisioning Platform for AAL Services
Alejandro Martín Medrano Gil, Dario Salvi, Maria Teresa Arredondo Waldmayer, Patricia Abril Jimenez and Andrej Groric - Separating the content from the presentation in AAL: the universAAL UI framework and the Swing UI Handler
Martin Peters, Christopher Brink, Sabine Sachweh and Albert Zündorf - Performance Considerations in Ontology based Ambient Intelligence Architectures
Piedad Garrido, Angel Sanchez, Francisco J. Martinez, Sandra Baldassarri, Eva Cerezo and Francisco J. Seron - Using 3D Virtual Agents to Improve the Autonomy and Quality of Life of Elderly People
Andrei-Adnan Ismail and Adina Magda Florea - Multimodal Indoor Tracking of a Single Elder in an AAL Environment

ISAmI - Session 5
THURSDAY 23 MAY, 2013 (19:00-21:00) - Room 4
Chair: Dante I. Tapia
Christina Katsiimerou, Judith Redi and Ingrid Heynderickx - Face detection in intelligent ambiances with colored illumination
Ichiro Satoh - Easy Carbon Offsetting and Trading with Ambient Technologies
Aida Mustapha, Mohd Sharifuddin Ahmad and Azhana Ahmad - Conversational Agents as Full-Pledged BDI Agents for Ambient Intelligence
Stefan Rüther, Thomas Hermann, Malik Mracek, Stefan Kopf and Jochen Steil - Supporting Workers and Quality Management in Sterilization Departments
Joaquim Teixeira, Carlos Lima, Lino Figueiredo, Goreti Marreiros and Ricardo Costa - An Intelligent System to Setup Meetings, Capture, Organize and Record Information in Smart Offices
PLENARY SPEAKERS

Longbing Cao (Director, University of Technology Sydney)
Plenary Speaker of PAAMS
Title: Agent Mining: The Synergy of Multiagent Systems and Data Mining

Amílcar Cardoso (University of Coimbra)
Plenary Speaker of DCAI
Title: Computational Creativity: Distributed Approaches

Katsutoshi Yada (Faculty of Commerce, Kansai University, Osaka)
Plenary Speaker of IS-MiS
Title: Strategic Data Asset in Retailer

Alberto Prado (Vice President of Digital Innovation at Philips)
Plenary Speaker of ISAmI
Title: Ambient Intelligence innovation: Overview of Philips activity and outlook

Alfonso Valencia (National Cancer Research Centre)
Plenary Speaker of PACBB
Title: Computational approaches to the study of protein families

All plenary talks will take place in Sala Menor