

**IADIS International Conference**  
**Intelligent Systems and Agents 2009**  
**PRELIMINARY CONFERENCE PROGRAM**

**Sunday 21<sup>st</sup>, June 2009**

**08:30:00-17:00 Welcome Desk**

**09:30-10:00 Session O – Opening Session**  
**(Room: Vila Lagoa)**

**OPENING SESSION**

*Prof. Pedro Isaías and Prof. Antonio Palma dos Reis*

**10:00-11:00 Session KL1 – Keynote Presentation**  
**(Room: Vila Lagoa)**

**LEARNING METHODS FOR EVOLVING INTELLIGENT SYSTEMS AND AGENTS**

*Dr. Ronald R. Yager, Machine Intelligence Institute, Iona College, New York*

**11:00-11:30 Coffee Break**

**11:30-13:00 Session FP 21.1**  
**Computational Intelligence // Web Mining**  
**(Room: Vila Lagoa)**

**COMBINING FUZZY DOMINANCE BASED PSO AND GRADIENT DESCENT FOR EFFECTIVE PARAMETER ESTIMATION OF GENE REGULATORY NETWORKS? (F028)**

*Sanjoy Das, Karim Morcos and Stephen M. Welch*

**TREE-STRUCTURE-AWARE GENETIC OPERATORS IN GENETIC PROGRAMMING (F047)**

*Kisung Seo and Chulhyuk Pang*

**CONTENT AND COMMUNICATION BASED SUB-COMMUNITY DETECTION USING PROBABILISTIC TOPIC MODELS (F038)**

*Alexandru Berlea, Markus Döhring and Nicolai Reuschling*

**13:00-14:30 Lunch Break**

**14:30-16:55 Session FPSP 21.2**  
**Artificial Intelligence // Neural Networks // Pattern Recognition // Intelligent Systems**  
**(Room: Vila Lagoa)**

**THE GENE EXPRESSION PROGRAMMING APPLIED TO THE SEASONAL DEMAND FORECAST (F053)**

*Evandro Bittencourt, Raul Landmann, Paulo César Oliveira, Sidney Schossland, Edson Wilson Torrens and Jerzy Wyrebski*

**FOCUSED TIME-DELAY NEURAL NETWORK MODELING TOWARDS TYPING STREAM PREDICTION (S026)**

*Jun Li, Karim Ouazzane, Hassan Kazemian, Yanguo Jing and Richard Boyd*

**USE OF THE NEURAL NETWORK FOR ESTIMATING THE MUD 'S QUANTITY GENERATED BY EFFLUENT TREATMENT STATIONS: A CASE STUDY (S054)**

*Paulo Bousfield, Cladir Zanottelli, Paulo Oliveira, Cátia Ganske, Sidney Schossland and Edson Torrens*

**TOPOLOGICAL APPROACH FOR ROBUST INTERPOLATION OF SPEECH-SPECTRA (S029)**

*Yoshinao SHIRAKI*

**APPLICATION OF NEURAL NETWORK TO PREDICT ADVERSE SITUATIONS IN TROUBLE TICKETING REPORTS (S093)**

*Julia Gómez, Yaiza Temprado, Margarita Gallardo, Carolina García and Francisco Javier Molinero*

**SUMMAVILLE: AN AUTOMATIC AND WEB-BASED NEWS STORIES SUMMARIZER (S090)**

*Paulo C F de Oliveira, Edson Wilson Torrens, Paulo Bousfield, Sidney Schossland, Evandro Bittencourt and Raul Landmann*

**ROSES: AN EXPERT SYSTEM FOR DIAGNOSING SIX NEUROLOGIC DISEASES IN CHILDREN (P079)**

*Sayed Yousef Monir Vaghefi and Touran Mahmoudian Isfahani*

**Monday 22<sup>nd</sup>, June 2009**

**08:30-17:00 Welcome Desk**

**09:20-11:00 Session FSP 22.1**  
**Agents and Learning // Agent Theories**  
**(Room: Vila Lagoa)**

**HYBRID SYSTEM BASED ON ROUGH SETS AND WAVELET NEURAL NETWORKS "SOCIAL ACTIONS" AND RL-ALGORITHMS TO BUILD POLICIES IN DEC-POMDP RKS (F088)**

*Thomas Vincent and Akplogan Mahuna*

**AGENT-BASED LEARNING MANAGEMENT SYSTEMS: UPSIDES AND CHALLENGES FOR SUPPORTING USERS (F052)**

*Shenghua Liu, Ari Wahlstedt and Anne Honkaranta*

**FINITE, REASONING AND INTERACTING AGENTS (S023)**

*Michal Walicki and Paul Simon Svanberg*

**AMBIENT ACTIVITY RECOGNITION: A POSSIBILISTIC APPROACH (S072)**

*Patrice C. Roy, Bruno Bouchard, Abdenour Bouzouane and Sylvain Giroux*

**11:00-11:30 Coffee Break**

**11:30-13:00 Session FP 22.2**  
**Mobile Agents // Agents in Networks**  
**(Room: Vila Lagoa)**

**AN EXTENSION OF THE CLIENT – SERVER MODEL TO THE MOBILE AGENTS: THE SELLER – BUYER MODEL (F034)**

*Djamel Eddine Menacer, Habiba Drias and Christophe Sibertin-Blanc*

**A HARDWARE BASED APPROACH FOR PROTECTING MULTIAGENT SYSTEMS (F067)**

*Antonio Muñoz, Antonio Maña and Marioli Montenegro*  
**INTEGRATING ANT COLONY OPTIMIZATION IN A MOBILE-AGENT BASED RESOURCE DISCOVERY ALGORITHM (F022)**

*Yasushi Kambayashi and Yoshikuni Harada*

**13:00-14:30 Lunch Break**

**14:30-16:25 Session FSP 22.3**  
**Machine Learning // Fuzzy Technologies and Systems**  
**(Room: Vila Lagoa)**

**A METHOD FOR COMBINING INSTANCE SELECTION ALGORITHMS (F084)**  
*Yoel Caises, Antonio González, Enrique Leyva and Raúl Pérez*  
**EXTRACTING RULE SUBSETS IN A GENETIC ITERATIVE MODEL (F089)**

*Yoel Caises, Antonio González, Enrique Leyva and Raúl Pérez*  
**ELIMINATING BORDER INSTANCES TO AVOID OVERFITTING (F095)**

*Khalil el Hindi and Mousa AL-Akhras*

**CLASSIFICATION OF SERIOUS SEXUAL ASSAULT USING FUZZY CLUSTERING (S035)**

*Don Casey and Phillip Burrell*

**CONTEXT MANAGEMENT AND USER PREFERENCE LEARNING IN SMART HOME ENVIRONMENTS (P031)**

*Víctor M. Peláez Martínez, Luis Ángel San Martín Rodríguez, Roberto González Rodríguez and Vanesa Lobato Rubio*

**17:30 – Conference Dinner**  
Departure from the conference hotel.

**Tuesday 23rd June 2009**

**08:30-13:15 Welcome Desk**

**09:00-11:00 Session FP 23.1**  
**Agent Models and Architectures // Agent Development // Agent Theories**  
**(Room: Vila Lagoa)**

**MULTI AGENT SYSTEM INTEGRATING NATURALISTIC DECISION ROLES: APPLICATION TO MARITIME TRAFFIC (F036)**

*Thierry Le Pors, Thomas Devogele and Christine Chauvin*  
**COORDINATED MULTI-AGENT BASED FRAMEWORK FOR PATIENT AND RESOURCE SCHEDULING (F032)**

*E. Grace Mary Kanaga, M.L. Valarmathi and Preethi S.H. Darius*  
**MASITS – A MULTI-AGENT BASED INTELLIGENT TUTORING SYSTEM DEVELOPMENT METHODOLOGY (F050)**

*Egons Lavendelis and Janis Grundspenkis*  
**SPECIFYING AND VALIDATING THE AGENT PERFORMANCE EVALUATION METHODOLOGY: THE SYMBIOSIS USE CASE (F045)**

*Christos Dimou, Fani A. Tzima, Andreas L. Symeonidis, and Pericles. A. Mitkas*

**11:00-11:30 Coffee Break**

**11:30-13:10 Session FSP 23.2**  
**Multi-Agent Systems // Simulation**  
**(Room: Algar Seco)**

**A MULTIAGENT ARCHITECTURE FOR AUGMENTED REALITY APPLICATIONS (F037)**

*J. A. Mateos Ramos, D. Vallejo Fernández, I. Arriaga Sánchez and C. González Morcillo*

**ALTERNATIVE NEIGHBORHOOD CONFIGURATIONS IN AN ABMS MODEL TO ESTIMATE THE ADOPTION OF TELECENTERS IN BRAZIL (F061)**

*Ismael Mattos A. Ávila, Luiz Acácio G. Rolim and Giovanni M. Holanda*

**EVACUATION BEHAVIORS IN AN EMERGENCY STATION BY AGENT-BASED APPROACH (S048)**

*Kazuki Satoh, Toru Takahashi, Takashi Yamada, Atsushi Yoshikawa and Takao Terano*

**DOC-OPT A NEW METHOD FOR DISTRIBUTED CONSTRAINT SATISFACTION AND OPTIMIZATION PROBLEMS RESOLUTION (S055)**

*Kais Ben Salah and Khaled Ghedira*

**13:15 Best Paper Awards Ceremony and Closing Session**  
**(Room: Algar Seco)**

*Prof. Pedro Isaías and Prof. Antonio Palma dos Reis*