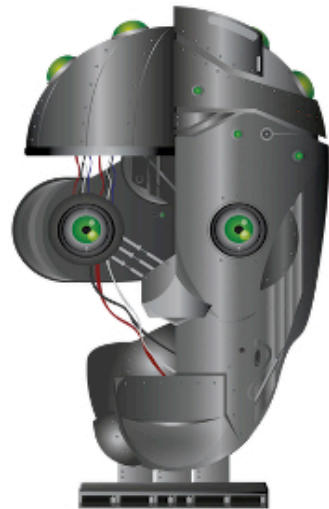


PROGRAMME



HAIS
2014

	Wed. 11	Thu. 12		Fri. 13
ROOM	Room: Sala de Ensayos	Room: Sala de Ensayos	Room: Aula Cristal	Room: Sala de Ensayos
08:00	Registration (Open the whole day)			
08:30-09:30	SESSION HAIS S1 Hybrid Intelligent Systems for Data Mining and Applications	SESSION HAIS S3A HAIS Applications	SESSION HAIS S3B Classification and Cluster Analysis I	SESSION HAIS S5 Video and Image Analysis
09:30-10:30				
10:30-11:00	10:30 - 10:50 Opening (Room: Sala de Ensayos)	SMC-SC Meeting (Room: Sala de Ensayos)		Coffee break
	10:50-11:15 Coffee break	Coffee break		
11:00-12:00	11:15-12:00 Invited Talk - Prof. Amparo Alonso Betanzos	Invited Talk - Prof. Sung-Bae Cho		Invited Talk - Prof. André de Carvalho
12:00-13:00	12:15-14:00 WELCOME Reception in Salamanca Council	SESSION HAIS S4A Data Mining and Knowledge Discovery	SESSION HAIS S4B Classification and Cluster Analysis II	SESSION HAIS S6 Learning Algorithms
13:00-14:00				
14:00-16:30	Lunch	Lunch		
17:00-18:00	SESSION HAIS S2 Bio-inspired Models and Evolutionary Computation	SALAMANCA GUIDED TOUR (18:30-20:30) (Depart from conference venue at 18:30, and will finish at gala dinner restaurant at 20:30)		
18:00-19:00				
19:00-20:30	COCKTAIL (Palacio de Congressos) Iberian ham tasting			
20:30		GALA DINNER (Abba Fonseca Hotel)		

ROOM: Sala de Ensayos

Wednesday 11	
HAIS S1	HAIS S2
HAIS10	HAIS7
HAIS12	HAIS8
HAIS29	HAIS48
HAIS34	HAIS50
HAIS35	HAIS55
HAIS42	HAIS86
HAIS58	HAIS43
HAIS82	HAIS65
Miguel Cárdenas José A. F. Costa	Luciano Sánchez Richard Duro

Thursday 12	
HAIS S3A	HAIS S4A
HAIS27	HAIS9
HAIS31	HAIS13
HAIS56	HAIS16
HAIS72	HAIS38
HAIS60	HAIS40
HAIS74	HAIS66
HAIS77	HAIS70
HAIS88	HAIS79
David Griol	Miguel Cárdenas

Friday 13	
HAIS S5	HAIS S6
HAIS4	HAIS20
HAIS21	HAIS26
HAIS30	HAIS49
HAIS44	HAIS51
HAIS54	HAIS71
HAIS78	HAIS75
HAIS80	HAIS15
HAIS89	
Manuel Graña Michal Wozniak	Ángel M. del Rey

Session Chair

ROOM: Aula Cristal

Thursday 12	
HAIS S3B	HAIS S4B
HAIS5	HAIS76
HAIS28	HAIS87
HAIS33	HAIS14
HAIS37	HAIS62
HAIS47	HAIS22
HAIS52	
HAIS57	
HAIS73	
José A. F. Costa	Michal Wozniak

Session Chair

Session HAIS S1: Hybrid Intelligent Systems for Data Mining and Applications

Date: Wednesday 11

Hour: 08:30 – 10:30

Room: Sala de Ensayos

 Chairs: **Miguel Cárdenas-Montes, José A. F. Costa**

Id paper	TITLE	Authors
HAIS10	Daily Power Load Forecasting using the Differential Polynomial Neural Network	Ladislav Zjavka
HAIS12	Metaheuristics for Modelling Low-Resolution Galaxy Spectral Energy Distribution	Miguel Cárdenas-Montes, Miguel A. Vega-Rodríguez, and Mercedes Molla
HAIS29	Hybrid Approaches of Support Vector Regression and SARIMA Models to Forecast the Inspections Volume	Juan J. Ruiz-Aguilar, Ignacio J. Turias, María J. Jiménez-Come, and M. Mar Cerbán
HAIS34	A Hybrid Approach for Credibility Detection in Twitter	Alper Gün and Pinar Karagöz
HAIS35	A Hybrid Recommender System based on AHP that Awares Contexts with Bayesian Networks for Smart TV	Ji-Chun Quan and Sung-Bae Cho
HAIS42	An Ontology-based Recommender System Architecture for Semantic Searches in Vehicles Sales Portals	Fábio A. P. de Paiva, José A. F. Costa, and Cláudio R. M. Silva
HAIS58	Hybrid Systems for analyzing the movements during a temporary breath inability episode	María Luz Alonso Álvarez, Silvia González, Javier Sedano, Joaquín Terán, José Ramón Villar, Estrella Ordax Carbajo, and María Jesús Coma del Corral
HAIS82	Hybrid Intelligent Model to Predict the SOC of a LFP Power Cell type	Luis Alfonso Fernández-Serantes, Raúl Estrada Vázquez, José Luis Casteleiro-Roca, José Luis Calvo-Rolle, and Emilio Corchado

Session HAIS S2: Bio-inspired Models and Evolutionary Computation

Date: Wednesday 11

Hour: 17:00 – 19:00

Room: Sala de Ensayos

 Chairs: **Luciano Sánchez, Richard Duro**

Id paper	TITLE	Authors
HAIS7	Non-dominated Sorting and a Novel Formulation in the Reporting Cells Planning	Víctor Berrocal-Plaza, Miguel A. Vega-Rodríguez, and Juan M. Sánchez-Pérez
HAIS8	Improving the k-Nearest Neighbour Rule by an Evolutionary Voting Approach	Jorge García-Gutiérrez, Daniel Mateos-García, and José C. Riquelme-Santos
HAIS48	Performance Testing of Multi-Chaotic Differential Evolution Concept on Shifted Benchmark Functions	Roman Senkerik, Michal Pluhacek, Donald Davendra, Ivan Zelinka, Zuzana Kominkova Oplatkova
HAIS50	Time series segmentation of paleoclimate tipping points by an evolutionary algorithm	M. Pérez-Ortiz, P.A. Gutiérrez, J. Sánchez-Monedero, C. Hervás-Martínez, Athanasia Nikolaou, Isabelle Dicaire, and Francisco Fernández-Navarro
HAIS55	Mutual information-based feature selection in fuzzy databases applied to searching for the best code metrics in	José Otero, Rosario Suárez, and Luciano Sánchez

	automatic grading	
HAIS86	Optimizing Objective Functions with Non-Linearly Correlated Variables using Evolution Strategies with Kernel-Based Dimensionality Reduction	Piotr Lipinski
HAIS43	Visual behavior definition for 3D crowd animation through neuro-evolution	Bruno Fernandez, Juan Monroy, Francisco Bellas, and Richard J. Duro
HAIS65	Hybrid System for Mobile Image Recognition through Convolutional Neural Networks and Discrete Graphical Models	William Raveane and María Angélica González Arrieta

Session HAIS S3A: HAIS Applications

Date: Thursday 12

Hour: 08:30 – 10:30

Room: Sala de Ensayos

Chairs: **David Griol**

Id paper	TITLE	Authors
HAIS27	Computer Aided Diagnosis of Schizophrenia based on local-activity measures of resting-state fMRI	Alexandre Savio, Darya Chyzyk, Manuel Graña
HAIS31	A Variable Neighborhood Search Approach for Solving the Generalized Vehicle Routing Problem	Petrica C. Pop, Levente Fuksz, Andrei Horvat Marc
HAIS56	A framework to develop adaptive multimodal dialog systems for Android-based mobile devices	David Griol and José Manuel Molina
HAIS72	Wind Power Ramp Event Prediction with Support Vector Machines	Oliver Kramer, Nils André Treiber, Michael Sonnenschein
HAIS60	An Ontology for Human-Machine Computation Workflow Specification	Nuno Luz, Carlos Pereira, Nuno Silva, Paulo Novais, António Teixeira, Miguel Oliveira e Silva
HAIS74	A Fuzzy Reinforcement Learning Approach to QoS Provisioning Transmission in Cognitive Radio Networks	Jerzy Martyna
HAIS77	Time series segmentation and statistical characterisation of the Spanish stock market Ibex-35 index	M. Cruz-Ramírez, M. de la Paz-Marín, M. Pérez-Ortiz, and C. Hervás-Martínez
HAIS88	An Approach of Steel Plates Fault Diagnosis in Multiple Classes Decision Making	Dragan Simić, Vasa Svirčević and Svetlana Simić
HAIS53	Developing Adaptive Agents Situated in Intelligent Virtual Environments	J. A. Rincon, Emilia Garcia, V. Julian, and C. Carrascosa

Session HAIS S3B: Classification and Cluster Analysis I

Date: Thursday 12

Hour: 08:30 – 10:30

Room: Aula Cristal

Chairs: **José Alfredo F. Costa**

Id paper	TITLE	Authors
HAIS5	Hierarchical Combining of Classifiers in Privacy Preserving Data Mining	Piotr Andruszkiewicz
HAIS28	Classification Rule Mining with Iterated Greedy	Juan A. Pedraza, Carlos García-Martínez, Alberto Cano, and Sebastián Ventura
HAIS33	Improving the behavior of the nearest neighbor classifier against noisy data with feature weighting schemes	José A. Sáez, Joaquín Derrac, Julián Luengo, and Francisco

		Herrera
HAIS37	Soft Clustering Based on Hybrid Bayesian Networks in Socioecological Cartography	R.F. Ropero, P.A. Aguilera, and R. Rumí
HAIS47	Comparison of Active Learning Strategies and Proposal of a Multiclass Hypothesis Space Search	Davi P. dos Santos, André C.P.L.F. de Carvalho
HAIS52	CCE: An Approach to Improve the Accuracy in Ensembles by Using Diverse Base Learners	M. Paz Sesmero, Juan M. Alonso-Weber, German Gutierrez, Araceli Sanchis
HAIS57	A novel hybrid clustering approach for unsupervised grouping of similar objects	Kaya Kuru
HAIS73	Fusion of Kohonen Maps Ranked by Cluster Validity Indexes	Leandro Antonio Pasa, José Alfredo F. Costa, and Marcial Guerra de Medeiros

Session HAIS S4A: Data Mining and Knowledge Discovery

Date: Thursday 12

Hour: 12:00 – 14:00

Room: Sala de Ensayos

Chairs: **Miguel Cárdenas-Montes**

Id paper	TITLE	Authors
HAIS9	Concurrence among Imbalanced Labels and its Influence on Multilabel Resampling Algorithms	Francisco Charte, Antonio Rivera, María José del Jesus, and Francisco Herrera
HAIS13	Depth-based Outlier Detection Algorithm	Miguel Cárdenas-Montes
HAIS16	Symbolic Regression for Precrash Accident Severity Prediction	Andreas Meier, Mark Gonter, and Rudolf Kruse
HAIS38	Constraint and Preference Modelling for Spatial Decision Making with use of Possibility theory	Jan Caha, Veronika Nevt pilov a and Jiry Dvorsky
HAIS40	Mining Incomplete Data with Attribute-Concept Values and "Do Not Care" Conditions	Patrick G. Clark and Jerzy W. Grzymala-Busse
HAIS66	An Approach to Sentiment Analysis of Movie Reviews: Lexicon based vs. Classification	Lukasz Augustyniak, Tomasz Kajdanowicz, Przemyslaw Kazienko, Marcin Kulisiewicz, Włodzimierz Tuligłowicz
HAIS70	Scalable Uncertainty-tolerant Business Rules	Alfredo Cuzzocrea, Hendrik Decker and Francesc D. Munoz-Escoi
HAIS79	Incorporating Belief Function in SVM for Phoneme Recognition	Rimah Amami, Dorra Ben Ayed, and Nouerddine Ellouze

Session HAIS S4B: Classification and Cluster Analysis II

Date: Thursday 12

Hour: 12:00 – 13:00

Room: Aula Cristal

Chairs: **Michal Wozniak**

Id paper	TITLE	Authors
HAIS76	Maintaining Case Based Reasoning systems based on soft competence model	Abir Smiiti and Zied Elouedi
HAIS87	Clustering-Based Ensemble of One-Class Classifiers for Hyperspectral Image Segmentation	Bartosz Krawczyk, Michal Wozniak, and Boguslaw Cyganek
HAIS14	Credal decision trees to classify noisy data sets	Carlos J. Mantas and Joaquín

		Abellán
HAIS62	YASA: Yet Another Time Series Segmentation Algorithm for Anomaly Detection in Big Data Problems	Luis Martí, Nayat Sanchez-Pi, José Manuel Molina, and Ana Cristina Bicharra Garcia
HAIS22	Analysis of Human Performance as a Measure of Mental Fatigue	André Pimenta, Davide Carneiro, Paulo Novais, and José Neves

Session HAIS S5: Video and Image Analysis

Date: Friday 13

Hour: 08:30 – 09:30

Room: Sala de Ensayos

Chairs: **Manuel Graña, Michal Wozniak**

Id paper	TITLE	Authors
HAIS4	Evaluation of Bounding Box Level Fusion of Single Target Video Object Trackers	Rafael Martín and José M. Martínez
HAIS21	A hybrid system of signature recognition using video and similarity measures	Rafal Doroz, Krzysztof Wrobel and Mateusz Watroba
HAIS30	Automatic Lane Correction in DGGE Images by using Hybrid Genetic Algorithms	M. Angélica Pinningho J., Macarena Valenzuela C., Ricardo Contreras A., Marco Mora C.
HAIS44	Augmented Reality: An observational study considering the MuCy model to develop Communication Skills on deaf children	Jonathan Cadeñanes and Angélica González Arrieta
HAIS54	A 3D Facial Recognition System using Structured Light Projection	Miguel A. Vázquez, Francisco J. Cuevas
HAIS78	Ear Recognition with Neural Networks based on Fisher and Surf algorithms	Pedro Luis Galdámez, María Angélica González Arrieta, Miguel Ramón Ramón
HAIS80	Hybrid Sparse Linear and Lattice Method for Hyperspectral Image Unmixing	Ion Marques, Manuel Graña
HAIS89	Hyperspectral Image Analysis Based on Color Channels and Ensemble Classifier	Bartosz Krawczyk, Pawel Ksieniewicz, and Michal Wozniak

Session HAIS S6: Learning Algorithms

Date: Friday 13

Hour: 12:00 – 14:00

Room: Sala de Ensayos

Chairs: **Ángel Martín del Rey**

Id paper	TITLE	Authors
HAIS20	Self-adaptive biometric classifier working on the reduced dataset	Piotr Porwik, Rafal Doroz
HAIS26	CA-based model for hantavirus disease between host rodents	E. García Merino, E. García Sánchez, J.E. García Sánchez, and A. Martín del Rey
HAIS49	DHGN Network with Mode-Based Receptive Fields for 2-Dimensional Binary Pattern Recognition	Anang Hudaya Muhamad Amin, Asad I. Khan, and Benny B. Nasution
HAIS51	Extending Qualitative Spatial Theories with Emergent Spatial Concepts	Gonzalo A. Aranda-Corral, Joaquín Borrego-Díaz, and Antonia M.

		Chávez-González
HAIS71	Theory-Inspired Optimizations for Privacy Preserving Distributed OLAP Algorithms	Alfredo Cuzzocrea and Elisa Bertino
HAIS75	Log-gamma distribution optimisation via maximum likelihood for ordered probability estimates	M. Pérez-Ortiz, P.A. Gutiérrez, and C. Hervás-Martínez
HAIS15	A Relational Dual Tableau Decision Procedure for Multimodal and Description Logics	Domenico Cantone, Joanna Golińska-Pilarek, and Marianna Nicolosi-Asmundo
