

IDA 2005

SUPPORTED by  



OPENING SPEECHES

08-sep 12:00	University Presentation	José M. Peña IDA 2005 Program Co-Chair Universidad Politécnica de Madrid, Spain	Gonzalo Leon Vice-rector of Research Universidad Politécnica de Madrid, Spain	F. Javier Segovia Dean Universidad Politécnica de Madrid, Spain
08-sep 12:30	Opening Address	Fazel Famili IDA2005 General Chair National Research Council, Canada	Carlos Martínez President Centro Superior de Investigaciones Científicas, Spain	

INVITED TALKS

09-sep 9:00	University Presentation	Using Qualitative Knowledge in Numerical Learning	Ivan Bratko University of Ljubljana, Slovenia
10-sep 9:00	Opening Address	Are we really discovering "interesting" knowledge from data?	Alex Freitas University of Kent, UK

TUTORIALS

08-sep 9:00	Tutorial 1	Probabilistic Inductive Logic Programming	Luc De Raedt Albert-Ludwigs-Universität in Freiburg, Germany	Kristian Kersting Albert-Ludwigs-Universität in Freiburg, Germany
08-sep 9:00	Tutorial 2	Statistical Bases of Machine Learning	Bruno Apolloni University of Milano, Italy	Dario Malchiodi University of Milano, Italy

PANEL SESSION

09-sep 13:30	Panel	10 Years of Intelligent Data Analysis	Xiaohui Liu (UK), Joost Kok (Netherlands) Fazel Famili (Canada)	INDUSTRY: SAS, Microsoft, BOOLE
-----------------	-------	---------------------------------------	--	---------------------------------

SPONSOR TALK

09-sep 15:00	SAS Product Presentation	SAS 9 Enterprise Intelligent Platform: Beyond BI	Ramón Gimeno SAS, Spain
-----------------	--------------------------	--	-----------------------------------

IDA BEST PAPER AWARDS

09-sep 16:00	Paper Awards	Best Student Papers	Ramón Gimeno SAS, Spain
-----------------	--------------	----------------------------	----------------------------

PAPER PRESENTATION SESSIONS

08-sep 14:00	SESSION 1	Condensed Nearest Neighbor Data Domain Description	Exploring Hierarchical Rule Systems in Parallel Coordinates	A distance-based method for preference information retrieval in paired comparisons
	Pre- & Post-processing	Fabrizio Angiulli	Thomas Gabriel, Simona Pintilie, Michael Berthold	Esther Dopazo, Jacinto González-Pachón, Juan Robles
08-sep 16:00	SESSION 2	Probabilistic Latent Clustering of Device Usage	Detecting Groups of Anomalously Similar Objects in Large Data Sets	Adaptive Classifier Combination for Visual Information Processing using Data Context Awareness
	Applications and Tools	Jean-Marc Andreoli, Guillaume Bouchard	Zhicheng Zhang, David Hand	MiYoung Nam, PhillKyu Rhee
		FCLib: A Library for Building Data Analysis and Data Discovery Tools	From local pattern mining to relevant bi-cluster characterization	
Wendy Koehler, W. Philip Kegelmeyer	Ruggero Pensa, Jean-Francois Boulicaut			
09-sep 11:00	SESSION 3	Bayesian Network Classifiers For Time-Series Microarray Data	Discriminative Remote Homology Detection Using Maximal Unique Sequence Matches	Knowledge discovery in the identification of differentially expressed genes
	Bioinformatics	Allan Tucker, Veronica Vinciotti, Peter A.C. 't Hoen, Xiaohui Liu	Hasan O'Yul, Aöenal Erkan Mumcuo'Ylu	Fazel Famili, Ziyang Liu, Pedro Carmona-Saez, Alaka Mullick

PAPER PRESENTATION SESSIONS

09-sep 16:30	SESSION 4	Combining Bayesian Networks with Higher-Order Data Representations	Modeling conditional distributions of continuous variables in Bayesian networks	
	Statistical Data Analysis	Elias Gytodimos, Peter Flach	Barry Cobb, Rafael Rumá-, Antonio SalmerÁn	
10-sep 11:00	SESSION 5	Towards automatic and optimal filtering levels for feature selection in text categorization	Feature discovery in classification problems	An evaluation of filter and wrapper methods for feature selection in categorical clustering
	Feature Selection	Elena Montañás, Elías F. Combarro, Irene Díaz, José Ranilla	Manuel del Valle, Beatriz Sánchez, Luis Lago-Fernández, Fernando Corbacho	Luis Talavera
10-sep 13:30	SESSION 6	Learning Label Preferences: Ranking Error versus Position Error	Self-Poised Ensemble Learning	Learning from Ambiguously Labeled Examples
	Supervised Learning	Eyke Huellermeier, Johannes Fuernkranz	Ricardo Anculef, Carlos Valle, Héctor Allende, Claudio Moraga	Juergen Beringer, Eyke Huellermeier
		Using Genetic algorithms to improve accuracy of economical indexes prediction		
		Oscar Cubo, Victor Robles, Francisco Javier Segovia, Ernestina Menasalvas		

PAPER PRESENTATION SESSIONS

10-sep 16:00	SESSION 7	Kernel K-means for Categorical Data	Sentiment Classification using Information Extraction Technique	Block clustering of contingency table and mixture model
	Unsupervised Learning	Julia Couto	Jian Liu, Gengfeng Wu	Mohamed Nadif, G�rard Govaert

POSTER TRACKS

09-sep 17:30	POSTER 1	Pulse: Mining Customer Opinions from Free Text	Keystroke Analysis of Different Languages: a Case Study	Modelling the Relationship between Streamflow and Electrical Conductivity in Hollin Creek, Southeastern Australia
	POSTER SESSION	Michael Gamon, Anthony Aue, Simon Corston-Oliver, Eric Ringger	Daniele Gunetti, Claudia Picardi, Giancarlo Ruffo	Jessica Spate
		Statistical Recognition of Noun Phrases in Unrestricted Text	Balancing Strategies and Class Overlapping	A Knowledge-Based Model for Analyzing GSM Network Performance
		Jose Ignacio Serrano, Lourdes Araujo	Gustavo Batista, Ronaldo Prati, Maria Carolina Monard	Pasi Lehtimäki, Kimmo Raivio
		Spatial approach to pose variations in face verification	Biological Cluster Validity Indices Based on the Gene Ontology	A mixture model-based on-line CEM algorithm
		Licesio J. Rodríguez-Aragón, Ángel Serrano, Cristina Conde, Enrique Cabello	Nora Speer, Christian Spieth, Andreas Zell	Allou Badara Samâ, Gérard Govaert, Christophe Ambroise
		A New Approach for Dimension Reduction to Visualize High Dimensional Data	Dealing with Data Corruption in Remote Sensing	
Frank Rehm, Frank Klawonn, Rudolf Kruse	Choh Man Teng			

POSTER TRACKS

10-sep 17:30	POSTER 2	Analysis of Feature Rankings for Classification	Bayesian Networks Learning for Gene Expression Datasets	Using Backward-Chaining Rule Induction and Domain Theory to Search for Meaningful Feature Interactions
	POSTER SESSION	Roberto Ruiz, Jes�s S. Aguilar-Ruiz, Jos� C. Riquelme, Norberto D�az-D�az	Giacomo Gamberoni, Evelina Lamma, Fabrizio Riguzzi, Sergio Storari, Stefano Volinia	Douglas Fisher, Mary Edgerton, Lianhong Tang, Lewis Frey, Zhihua Chen
		Successive Restrictions Algorithm in Bayesian Networks	Extending the GA-EDA hybrid algorithm to study diversification and intensification in GAs and EDAs	Miner Ants Colony: A new approach to solve a Mine Planning Problem
		Linda Smail	Victor Robles, Jose M. Pe�a, Maria S. P�rez, Pilar Herrero, Oscar Cubo	RIFF Maria-Cristina
		Removing Statistical Biases in Unsupervised Sequence Learning	A New Hybrid NM Method and Particle Swarm Algorithm for Multimodel Function Optimization	MACHINE-LEARNING WITH CELLULAR AUTOMATA
		Yoav Horman, Gal A. Kaminka	Fang Wang, Yuhui Qiu, Yun Bai	Petra Povalej, Peter Kokol, Tatjana Welzer Dru�ovec
		Regularized Least-Squares for Parse Ranking	Extending the SOM algorithm to visualize word relationships	Reliable Hierarchical Clustering with the Self-Organizing Map
		Evgeni Tsivtsivadze, Tapio Pahikkala, Sampo Pyysalo, Jorma Boberg, Aleksandr Myllari, Tapio Salakoski	Manuel Martin-Merino, Alberto Mu�oz	Elena Samsonova, Thomas Baeck, Joost Kok, Ad IJzerman