

Tuesday 29.5

9.00 -9.30	Conference Opening
9.30 -10.30	Keynote Talk: Cardiovascular Health Informatics: Predicting the Risk of Stroke Based on Ultrasound Image Analysis of the Atherosclerotic Carotid Plaque, Prof. Costas Pattichis, University of Cyprus
10.30-10.50	Coffee Break
	Machine Learning
	<i>Greedy Unsupervised Multiple Kernel Learning, Grigorios Tzortzis, Aristidis Likas</i> <i>Credit Rating Using a Hybrid Voting Ensemble, Elias Kamos, Foteini Matthaïou, Sotiris Kotsiantis</i>
10.50-12.10	<i>Learning from mixture of experimental data: a constraint--based approach, Vincenzo Lagani, Ioannis Tsamardinos, Sofia Triantafillou</i> <i>Bagged Nonlinear Hebbian Learning Algorithm for Fuzzy Cognitive Maps working on classification tasks, Elpiniki Papageorgiou, Panagiotis Oikonomou, Arthi Kannappan</i>
	Data Mining and Knowledge Discovery
	<i>Clustering of High Dimensional Data Streams, Sotiris Tasoulis, Dimitris Tasoulis, Vassilis Plagianakos</i> <i>Semantic Query Answering in Digital Libraries, Ilianna Kollia, Kostas Rapantzikos, Giorgos Stamou, Andreas Stafylopatis</i>
12.10-13.30	<i>Word Sense Disambiguation as an Integer Linear Programming Problem, Vicky Panagiotopoulou, Iraklis Varlamis, Ion Androustopoulos, George Tsatsaronis</i> <i>An online kernel-based clustering approach for value function approximation, Nikolaos Tziortziotis, Konstantinos Blekas</i>
13.30-14.30	Lunch Break
	AI Applications I
	<i>An intelligent tool for anatomical object segmentation using deformable surfaces, Konstantinos Delibasis, Argiris Christodoulidis, Ilias Maglogiannis</i> <i>Emerge-Sort: Swarm Intelligence Sorting, Dimitris Kalles, Vicky Mperoukli, Andreas Papandreadis</i>
14.30-15.50	<i>SWRL2COOL: Object-Oriented Transformation of SWRL in the CLIPS Production Rule Engine, Emmanouil Rigas, George Meditskos, Nick Bassiliades</i> <i>iThink: A Library for Classical Planning in Video-games, Vassileios-Marios Anastassiou, Panagiotis Diamantopoulos, Stavros Vassos, Manolis Koubarakis</i>
15.50-16.10	Coffee Break
	Special Session: Artificial Intelligence in Bioinformatics
	<i>Towards better prioritization of epigenetically modified DNA regions, Ernesto Iacucci, Dusan Popovic, Georgios A. Pavlopoulos, Leon-Charles Tranchevent, Marijke Bauters, Bart De Moor, Yves Moreau</i> <i>Mining cell cycle literature using support vector machines, Theodoros Soldatos, Georgios A. Pavlopoulos</i>
16.10-17.30	<i>CW-PRED: A HMM-based method for the classification of cell wall-anchored proteins of Gram-positive bacteria, Pantelis Bagos, Stavros Hamodrakas, Danai Fimereli, Konstantinos Tsirigos, Zoi Litou, Theodore Liakopoulos</i> <i>Predicting Human miRNA Target Genes Using a Novel Evolutionary Methodology, Dimitris Klefogiannis, Konstantinos Theofilatos, Spiros Likothanassis, Athanasios Tsakalidis, Seferina Mavroudi, Aigli Korfiati</i>
17.30-18.30	EETN General Assembly
20.30-22.30	Welcome Barbecue
	End of 1st Day

7th Hellenic Conference on
Artificial Intelligence



May 28-31, 2012
Lamia, Greece

Wednesday 30.5

9.00-10.20

Neural Networks

Evolutionary Optimization of a Neural Network Controller for Car Racing Simulation, Damianos Galanopoulos, Christos Athanasiadis, Anastasios Tefas

Parallelism, localization and chain gradient tuning combinations for fast scalable Probabilistic Neural Networks in data mining applications, Yiannis Kokkinos, Konstantinos Margaritis

Exploiting Quadratic Mutual Information for Discriminant analysis, Vasileios Gavriilidis, Anastasios Tefas

A SOM-based Validation Approach to a Neural Circuit Theory of Autism, Spyridon Revithis, Georgios Tagalakis

10.20-11.20

Keynote Talk: Data Clustering: From the Past to the Future, Dr. Dimitris Tasoulis, Winton Capital Management, United Kingdom

11.20-11.40

Coffee Break

11.40-13.20

Special Session: Advancing Translational Biological Research through the incorporation of Artificial Intelligence methodologies

Multifactor Dimensionality Reduction for the Analysis of Obesity in a Nutrigenetics Context, Katerina Karayianni, Ioannis Valavanis, Keith Grimaldi, Konstantina Nikita

Coupling Regulatory Networks and Microarrays: Revealing Molecular Regulation of Breast Cancer Treatment Responses, Lefteris Koumakis, Vassilis Moustakis, Michalis Zervakis, Dimitris Kafetzopoulos, George Potamias

A Galaxy workflow for the functional annotation of metagenomic samples, Eleftherios Pilalis, Eythymios Ladoukakis, Fragiskos Kolisis, Aristotelis Chatziioannou

Bioinformatic analysis of expression data of ApoE deficient mice, Olga Papadodima, Allan Sirsjo, Aristotelis Chatziioannou

Gene ontology semi-supervise possibilistic clustering of gene expression data, Ioannis Maraziotis, George Dimitrakopoulos, Anasatasios Bezerianos

13.20-14.30

Lunch Break

14.30-15.30

Special Session: Intelligent Annotation of Digital Content

Ontology-Based Automatic Image Annotation Exploiting Generalized Qualitative Spatial Semantics, Christos Smailis, Dimitris Iakovidis

Image interpretation by combining ontologies and bayesian networks, Spiros Nikolopoulos, Georgios Papadopoulos, Yiannis Kompatsiaris, Ioannis Patras

Advanced Cancer Cell Characterization and Quantification of Microscopy Images, Theodosios Goudas, Ilias Maglogiannis

17.00-20.00

Excursion to Thermopiles and Visiting of Museum

20.00-22.30

Gala Dinner at Agios Loukas restaurant

End of 2nd Day

7th Hellenic Conference on
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May 28-31, 2012
Lamia, Greece

Thursday 31.5

9.00-10.20

Knowledge Representation and Reasoning

Constraint Propagation as the Core of Local Search, Nikolaos Pothitos, George Kastrinis, Panagiotis Stamatopoulos

Information Sharing via Collaborative Reinforcement Learning, George Vouros

Distributed Instance Retrieval in E-DDL(HQ+){SHIQ} Representation Framework, Giorgos Santipantakis, George Vouros

Extending Generalized Arc Consistency, Anastasia Paparrizou, Kostas Stergiou

10.20-11.40

Genetic and Evolutionary Algorithms

Application of the Ant Colony Optimization Algorithm to Competitive Viral Marketing, Wan-Shiou Yang, Shi-Xin Weng

Tracking Differential Evolution Algorithms: An adaptive approach through multinomial distribution tracking with exponential forgetting, Michael Epitropakis, Dimirtis Tasoulis, Nicos Pavlidis, Vassilis Plagianakos, Michael Vrahatis

An AZP-ACO Method for Region-Building, Angelos Mimis, Antonis Rovolis, Marianthi Stamou

Parameter Tuning of Hybrid Nature-Inspired Intelligent Metaheuristics for Solving Financial Portfolio Optimization Problems, Vassilios Vassiliadis, Georgios Dounias, Tzanetos Alexandros

11.40-12.00

Coffee Break

12.00-13.20

AI Applications II

Forecasting Fraudulent Financial Statements with Committee of Cost-Sensitive Decision Tree Classifiers, Elias Zouboulidis, Sotiris Kotsiantis

Forecasting Corporate Bankruptcy with an Ensemble of Classifiers, Despina Deligianni, Sotiris Kotsiantis

Detecting Human Features in Summaries - Symbol Sequence Statistical Normality, George Giannakopoulos, George Vouros, Vangelis Karkaletsis

Acoustic Bird Activity Detection on Real-Field Data, Todor Ganchev, Iosif Mporas, Olaf Jahn, Klaus Riede, Karl-L. Schuchmann, Nikos Fakotakis

13.20-14.30

Lunch Break

14.30-15.30

Special Session: Intelligent, Affective, and Natural Interfaces

An Adaptive Dialogue System With Online Dialogue Policy Learning, Alexandros Papangelis, Nikolaos Kouroupas, Vangelis Karkaletsis, Fillia Makedon

Affective, Natural Interaction using EEG: sensors, application and future directions, Charline Hondrou, George Caridakis

Affective Computing on Elderly Physical and Cognitive Training within Live Social Networks, Evdokimos Konstantinidis, Antonis Billis Billis, Eirini Grigoriadou, Stathis Sidiropoulos, Sevi Fasnaki, Panagiotis Bamidis

15.30-15.50

Coffee Break

15.50-17.30

Special Session: Unified Multimedia Knowledge Representation and Processing

Semantic Video Abstracting: Automatic Generation of Movie Trailers based on Video Patterns, Till von Wenzlawowicz, Otthein Herzog

Learning to Case-tag Modern Greek Text, Katia Lida Kermanidis, Antonis Koursoumis, Evangelia Gkatzou, Antigoni Founta, Vassiliki Mavriki, Karolos Talvis, Spyros Mprilis, Ahmad Aliwat

Understanding how visual context influences multimedia content analysis problems, Phivos Mylonas

Block Operator Context Scanning for Commercial Tracking, Ioannis Giannoukos, Vassilis Vrachnakis, Christos-Nikolaos Anagnostopoulos, Ioannis Anagnostopoulos, Vassili Loumos

Identifying Conceptual Layers in the Ontology Development Process, Manolis Wallace, Panos Alexopoulos, Phivos Mylonas

17.30-18.00

Conference Closing

