## Artificial Intelligence Applications in Environmental Protection Workshop

25 April 2009

collocated with

## 5th IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI-2009) http://delab.csd

http://delab.csd.auth.gr/aiai2009

23-25 April, Thessaloniki, Greece

Program	
11:30-11:50	Invited Talk Artificial Intelligence Applications in the Atmospheric Environment: Status and Future Trends Kostas D. Karatzas
11:50-13:00	Session 1: Applications of machine learning techniques in environmental protection
11:50-12:08	Hydrological Neural Modeling aided by Support Vector Machines  Lazaros Iliadis, Stefanos Spartalis
12:08-12:26	Use of AI Techniques for Residential Fire Detection in Wireless Sensor Networks Majid Bahrepour, Nirvana Meratnia, Paul J. M. Havinga
12:26-12:43	Estimation of the permeability of granular soils using neuro-fuzzy system A. Sezer , A.B. Goktepe , S. Altun
12:43-13:00	A Data Mining System for Estimating a Largesize Matrix for the Environmental Accounting Ting Yu, Manfred Lenzen, Blanca Gallego, John Debenham
13:00-14:30	Lunch (AIAI 2009)
14:30-16:00	Session 2: Decision support and knowledge-based systems for environmental protection
14:30-14:48	Autonomous Inspection Of Complex Environments by Means of Semantic Techniques
	M. Ziegenmeyer, K. Uhl, J.M. Zöllner, R. Dillmann
14:48-15:06	Abductive Reasoning in Environmental Decision Support Systems Franz Wotawa, Ignasi Rodriguez-Roda, Joaquim Comas
15:06-15:24	Supporting Decision Making in Maritime Environmental Protection with a Knowledge-based Education and Awareness Approach Konstantinos Kotis, Andreas Papasalouros, Nikitas Nikitakos
15:24-15:42	Validation of a knowledge-based risk model for biological foaming in anaerobic digestion simulation  J. Dalmau, J. Comas, I. Rodríguez-Roda, E. Latrille, J.P. Steyer
15:42-16:00	An Environmental Diagnosis Expert System M. Oprea, D. Dunea