## Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1: Applications of machine learning techniques in environmental protection</th>
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| 11:30-11:50 | Invited Talk  
Artificial Intelligence Applications in the Atmospheric Environment: Status and Future Trends  
Kostas D. Karatzas |
| 11:50-13:00 |  
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 Bahrepan, 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 Large-Sized Matrix for the Environmental Accounting  
Ting Yu, Manfred Lenzen, Blanca Gallego, John Debenham |
| 13:00-14:30 | Lunch (AIAI 2009) |

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<tr>
<th>Time</th>
<th>Session 2: Decision support and knowledge-based systems for environmental protection</th>
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<td>14:30-16:00</td>
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Autonomous Inspection Of Complex Environments by Means of Semantic Techniques  
M. Ziegenmeyer, K. Uhl, J.M. Zöllner, R. Dillmann |
| 14:30-14:48 | Abductive Reasoning in Environmental Decision Support Systems  
Franz Wotawa, Ignasi Rodriguez-Roda, Joaquim Comas |
| 14:48-15:06 | Supporting Decision Making in Maritime Environmental Protection with a Knowledge-based Education and Awareness Approach  
Konstantinos Kotsis, Andreas Papasalouros, Nikitas Nikitakos |
| 15:06-15:24 | Validation of a knowledge-based risk model for biological foaming in anaerobic digestion simulation  
J. Dalmau, J. Comas, I. Rodriguez-Roda, E. Latrille, J.P. Steyer |
| 15:24-15:42 | An Environmental Diagnosis Expert System  
M. Oprea, D. Dunea |