

ISESS 2007 Session:

Artificial and Computational Intelligence for Environmental Modelling

As environmental modeling and software applications are striving to provide with solutions in complex and dynamic environments, the research fields of artificial and computational intelligence try to supply the right array of tools and techniques to cope with these new challenges. While AI tackles the problems from the top down, imposing the structure on the problem, CI starts from the bottom up, discovering structures from data. This session aims at discovering where the two approaches, when applied to environmental modelling, can be complementary rather than incompatible.

This session aims to attract academic and industrial papers, reporting on state-of-the-art cross-disciplinary developments of computational intelligence techniques in ecological research, environmental sciences and agronomy. The goal of this special session is to bring together researchers working in the relevant areas, to share their experiences, and to investigate new solutions for environmental modeling and simulation.

Topics of this special session include:

- * Artificial intelligence
- * Operational research
- * Data mining and machine learning
- * Service-oriented approaches and the Semantic Web
- * Data integration and meta-information markup languages
- * Knowledge representation systems and ontologies
- * Declarative modeling
- * Agent-based simulation
- * Grid computing

Detailed information on ISESS-2007 and submission guidelines:

<http://www.isess.org/conferences.asp?Conf=5>

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