



January 4-7, 2011, The Grand Hyatt Kauai Resort & Spa, Koloa, Kauai, Hawaii.

Track: Decision Technology, Mobile Technologies and Service Science

Minitrack: Information Systems and Decision Technologies for Sustainable Development

This minitrack emphasizes the significant research synergies that exist between information systems and environmental management for sustainable development from an organizational as well as a technical perspective. We maintain that collaboration and cross-fertilization between these domains can be mutually beneficial and may in fact present unique, timely and socially relevant ‘real-world’ research opportunities as well as viable public sources of empirical ecological information for interdisciplinary research and application.

Accordingly, we welcome both research articles and practitioner reports exploring technical and organizational issues that pertain to the development, implementation, and deployment of environmental decision support systems (EDSS) and environmental management information systems (EMIS) in the context of environmental management for sustainable development and Green IT. Theoretically founded papers that illustrate the application of information systems and decision technologies in environmental management for sustainable development are particularly welcomed. The minitrack is receptive to all types of research methodologies. Possible topics include, but are not limited to:

- Sustainable development and decision making
- Emerging technologies for decision support systems (DSS) development and environmental applications (e.g., computational intelligence, service-oriented computing, web services, semantic web, artificial intelligence, agent-based computing, human computer interaction and multiple criteria decision making)
- Intelligent environmental decision support systems
- Integrated environmental modeling: issues, technologies, and case studies
- Environmental model management including model sharing and reuse
- Decision dynamics, processes, and issues in the context of multiple stakeholders
- Environmental knowledge acquisition and management
- Expert knowledge-based systems for environmental management
- Environmental management information systems (EMIS) and their role in Green IT
- EDSS and EMIS design and integration
- Adoption and diffusion of decision technologies and EMIS
- Evaluation and cost/benefit analysis of EDSS and EMIS
- Environmental online communication and collaboration
- Environmental education
- Community building and social software applications

- Applications and case studies of EDSS and EMIS for sustainable development

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