

5th International Conference on Ecological Informatics ISEI5



Novel Computational Techniques for Improved Management,
Understanding and Forecasting of Complex Ecological Data
December 4 – 7, 2006 Santa Barbara, USA

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

Abstract submission deadline February 28, 2006



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Organised by Elsevier in association with the International Society for Ecological Informatics (ISEI)

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ABSTRACTS FOR ORAL AND POSTER
PRESENTATIONS ARE INVITED BY FEBRUARY 28, 2006

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ECOLOGICAL INFORMATICS SPECIAL ISSUE



Selected, refereed full papers from the oral and poster presentations will be published in a special issue of Ecological Informatics, which will be mailed to all delegates after the meeting.

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REGISTRATION

Please visit www.ISEI5-conference.elsevier.com for registration details.

THE ORGANIZERS

The 5th International Conference on Ecological Informatics is organized by Elsevier in conjunction with the International Society for Ecological Informatics (ISEI). ISEI is devoted to promote the concept of Ecological Informatics by organising biennial international conferences, providing relevant information through its web page, newsletters and the international peer-reviewed journal *Ecological Informatics* (planned for late 2005). ISEI wants to facilitate networking specialised research groups, interdisciplinary research on information processing in ecosystems, biologically-inspired computation, data management and visualisation, as well as education and training in ecologically-oriented informatics.

LOCATION

Santa Barbara County is truly idyllic. Situated along a unique stretch of east-west California coastline between Los Angeles and San Francisco, Santa Barbara basks in sunshine, natural bounty, creativity, cultural sophistication, and an appreciation for taking life at your own pace



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ISEI5 focuses on interdisciplinary research in Ecological Informatics by providing a forum for quantitative ecologists and biologists, environmental scientists and agencies, mathematicians, engineers, computer and information scientists. After holding previous ISEI conferences at Toulouse (France) in 1998, Adelaide (Australia) in 2000, Rome (Italy) in 2002 and Pusan (Korea) in 2004, this will be the first ISEI conference on the American continent.

ISEI5 EMPHASISES ON PROMOTING NOVEL CONCEPTS AND RESEARCH ON THE FOLLOWING TOPICS:

- Meta Information and Semantic Webs for Ecological Data Management and Sharing
- Information Processing and Transfer in Ecosystems
- Simulating Ecosystem Behaviour by Adaptive Agents, Hybrid Models and Artificial Life
- Ecological Knowledge Discovery, Clustering and Forecasting, and Computer Design by Bio-inspired Computation

INVITED SPEAKERS

Paulien Hogeweg, *Utrecht University, The Netherlands*
Ellen van Donk, *Netherlands Institute of Ecology, The Netherlands*
Matt Jones, *National Center for Ecological Analysis and Synthesis, USA*
Stuart Kauffman, *Santa Fe Institute, USA*
Sven Erik Jørgensen, *Royal School of Pharmacy, Copenhagen*

SPECIAL SESSIONS

- **Ecological applications of meta information concepts and semantic webs**
Bill Michener, *Albuquerque, USA*. Matt Jones, *Santa Barbara, USA*
- **Progress in bio-inspired computation and computer design**
Xin Yao, *Birmingham, UK*. Gianluca Tempesti, *Lausanne, Switzerland*
- **Ecological information processing and transfer**
Ellen van Donk, *Amsterdam, The Netherlands*. Adam Marsh, *Lewes, USA*
- **Simulating ecosystem behaviour by hybrid models and artificial life**
Paulien Hogeweg, *Utrecht, The Netherlands*. Friedrich Recknagel, *Adelaide, Australia*
- **Bio-inspired computation of freshwater ecosystems**
Tae-Soo Chon, *Pusan, South Korea*. Sovan Lek, *Toulouse, France*
- **Bio-inspired computation of marine and coastal ecosystems**
Michel Dreyfus-Leon, *Mexico*. Din Chen, *Washington, USA*. Michele Scardi, *Rome, Italy*
- **Bio-inspired computation of terrestrial ecosystems, bioregions and landscapes**
Wim Ozinga, *Wageningen, The Netherlands*. N. LeRoy Poff, *Fort Collins, USA*
- **Identification of ecological micro images by bio-inspired computation**
Lynn Boddy, *Cardiff, UK*
- **Ecological applications of remote sensing and GIS**
Giles Foody, *Highfield, UK*

LANGUAGE: The language of the conference will be English.

CONFERENCE CHAIRS

Michel Dreyfus-Leon, *Universidad Autónoma de Baja California, Mexico*
Matt Jones, *University of California Santa Barbara, USA*
Friedrich Recknagel, *University of Adelaide, Australia*

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