

CALL FOR PAPERS

9th International Conference on Ecological Informatics, 2014

ICEI 2014

Ecological Informatics: Environmental Sustainability by Informed Decisions

Monday, October 20 - Thursday, October 23, 2014

Nanjing, China

<http://cisei2014.cnued.org/channels/12.html>

Hosted by

Nanjing Hydraulics Research Institute, CHINA

Beijing Normal University, CHINA

1. Topic: Ecological Informatics for Environmental Sustainability

Environmental management in the 21st Century is globally challenged by ongoing urbanisation, desertification, increasing water and energy demand, eutrophication, biological invasion.

Ecological informatics utilises ecological data and novel computation for informed decisions on sustainable environments.

The ICEI 2014 will be a forum for academics, practitioners and students to exchange recent theoretical concepts and practical solutions on ecological data acquisition, analysis, synthesis and forecasting.

2. Conference themes

Session I: Applications of Ecological Informatics

- Ecoinformatics for managing natural terrestrial and agro-ecosystems
- Ecoinformatics for managing river, lake, coastal and marine ecosystems
- Ecoinformatics for managing urban ecosystems
- Ecoinformatics for integrated pest management
- Network modelling and ecological informatics theory

Session II: Ecological Monitoring and Data Management

- Data assimilation and sharing
- Bioindication
- Ecological acoustics
- Automatic ecosystem surveillance
- Operational models for real-time forecasting

Session III: Spatio-temporal Computation

- Spatially–explicit ecosystem simulation and forecasting
- Integration of numerical and computational techniques

Session IV: Bio-inspired and Probabilistic Computation

- Evolutionary computation and multiobjective optimization
- Applications of cellular automata, fuzzy logic and adaptive agents
- Artificial neural networks and SOM
- Immunoinformatics and biological invasion
- Bayesian inference and probability

Session V: GIS and Remote Sensing

- Ecological monitoring at local, regional and global scale
- Geodetic monitoring
- Spatio-temporal visualization by GIS

Session VI: Paleoecoinformatics and Ecogenomics

- Reconstruction ecosystem genesis and evolution by geohistorical and genomic data

3. Keynote Speakers (to be determined)

- George Arhonditsis (University of Toronto, Canada)
- Simon Brewer (University of Wyoming, USA)
- William Michener (University of New Mexico, Albuquerque, NM, USA)
- Giles Foody (University of Nottingham, UK)
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4. Important dates

20 April 2014: Abstract submission deadline
 20 July 2014: Notification of Abstract Acceptance
 20 September 2014: Final Version Due
 21 October 2014: Conference Open Ceremony
 Winter 2014 (or spring 2015): Special Issue Publishing Date

5. Location and Venue (Pictures are added in Web and in Printed copy)

- Conference venue: Nanjing Grand Hotel (www.njgrandhotel.com), +862583311999
- Economic hotel: Ruidi Hotel, +86 25 85828398 (500 meters from conference venue)

6. Paper Submission Guidelines

Manuscripts should be electronically submitted at the conference website: <http://cisei2014.cnued.org/channels/12.html>. All relevant information and the submitted paper must be written in English. Both full research papers and work-in-progress reports are welcome. Authors are required to certify that their paper represents original work and is previously unpublished. Simultaneous submission to any other conference, workshop or

journal is strictly excluded. The manuscript must be submitted in the paper format (a Microsoft Word template are available on the conference website). Please download the filetemplate.dot from the website.

7. Publications

- Selected papers will be published in a special issue of Ecological Informatics (SCI, Elsevier).
- A book of abstracts will be published before the conference with the full conference programme.

8. Conference Committees

8.1 Conference chair

Chair: Friedrich Recknagel (University of Adelaide, Editor-in-Chief of Ecological Informatics)
Co-chair: Qiuwen Chen (Nanjing Hydraulics Research Institute)

8.2 Local Organizing Committee

(1) Honour chair

Jianyun Zhang (Member of Chinese Academy of Engineering, Director of NHRI)

(2) Chair

Yun Li (Deputy director of NHRI)

(3) Co-chair

Qiuwen Chen (Nanjing Hydraulic Research Institute)

Bin Chen (Beijing Normal University)

(4) Secretary

Feng Sun (Nanjing Hydraulic Research Institute)

Gengyuan Liu (Beijing Normal University)

(5) Members

Jianbo Chang	(Professor, Director of Eco-hydraulics Engineering Institute, MWR)
Kailin Chen	(Professor, Chief Engineering of Environmental Assessment Centre, MEP)
Qiuwen Chen	(Professor, Director of RCEES, NHRI)
Wanhong Li	(Professor, Director of Water Science and Engineering, NSFC)
Joseph H W Lee	(Professor, Vice president of Hong Kong University of Science & Technology)
Yun Li	(Professor, Deputy director of NHRI)
Jianjian Lu	(Professor, East China Normal University)
Zhiyu Sun	(Professor, Director of Environmental Centre, Three Gorges Development Ltd.)
Chao Wang	(Member of Chinese Academy of Engineering, Vice president of Hohai University)
Zhaoying Wang	(Professor, Tsinghua University)
Fuliu Xu	(Professor, Peking University)
Zhifeng Yang	(Professor, Director of Environmental Department, Beijing Normal University)
Huaidong Zhou	(Professor, Director of Environmental Research Institute, IWHR)

8.3 Scientific Committee Members

G.B. Arhonditsis (University of Toronto, Toronto, ON, Canada)

M.B. Beck (University of Georgia, Athens, GA, USA)

L. Boddy (Cardiff University, Cardiff, UK)

B. Bredeweg (Universiteit van Amsterdam, Amsterdam, Netherlands)

Q. Cai (Chinese Academy of Sciences (CAS), Wuhan, China)
N-B. Chang (University of Central Florida, Orlando, FL, USA)
B. Chen (Beijing Normal University, Beijing, China)
Q. Chen (Nanjing Hydraulics Research Institute, Nanjing, China)
D. Chen (South Dakota State University, Brookings, SD, USA)
E. Cho (Kentucky State University, Frankfort, KY, USA)
P. Correa (University of San Paulo, Brazil)
R. Costanza (Australian National University, Canberra, ACT, Australia)
P. Culverhouse (Plymouth University, Plymouth, UK)
Ch. de Branco (University of Rio de Janeiro, Brazil)
M. Dreyfus (Universidad Autonoma de Baja California, Coronado, Mexico)
S. Dzeroski (Institut "Jožef Stefan", Ljubljana, Slovenia)
B.D. Fath (Towson University, Towson, MD, USA)
A. Fielding (Manchester Metropolitan University, Manchester, UK)
G.M. Foody (University of Nottingham, Nottingham, UK)
M.N. French (University of Louisville, Louisville, KY, USA)
P. Goethals (Universiteit Gent, Gent, Belgium)
D.G. Green (Monash University, Caulfield East, VIC, Australia)
K. He (Murray State University, USA)
P. Hogeweg (Theor. Biol. and Bioinformatics Group, Utrecht, Netherlands)
P.T. Hraber (Santa Fe Institute, Santa Fe, NM, USA)
K.-S. Jeong (Pusan National University, Miryang, South Korea)
M.B. Jones (Juneau, USA)
G. Joo (Pusan National University, Pusan, South Korea)
S.E. Jørgensen (University of Copenhagen, Copenhagen, Denmark)
J.H.W. Lee (Hong Kong University of Science & Technology, Kowloon, Hong Kong)
S. Lek (Université Paul Sabatier (Toulouse III), Toulouse, France)
A.G. Marsh (University of Delaware, Lewes, DE, USA)
R. McKay (Seoul National University (SNU), Seoul, South Korea)
Z. Michalewicz (University of Adelaide, Adelaide, SA, Australia)
M O'Connell (Ecological Research & Training Ltd, Uplands, Stroud, Gloucestershire, UK)
I. Ostrovsky (Israel Oceanographic & Limnological Research Ltd., Migdal, Israel)
Y-S. Park (Kyung Hee University, Dongdaemun-Gu, Seoul, South Korea)
L. Parrott (University of British Columbia, Kelowna, BC, Canada)
B.C. Patten (University of Georgia, Athens, GA, USA)
M. Purvis (University of Otago, Dunedin, New Zealand)
S. Ray (VisvaBharati University, Santiniketan, West Bengal, India)
P. Salles (University of Brazil, Brazil)
M. Scardi (Università di Roma "La Sapienza", Roma, Italy)
L. Song (Chinese Academy of Sciences (CAS), Wuhan, Hubei Province, China)
S. Soyupak (ATILIM University, Ankara, Turkey)
R. Stafford (Bournemouth University, Fern Barrow Poole, Dorset, UK)
E. van Donk (NIOO-KNAW-Centre for Limnology, Nieuwersluis, Netherlands)
W.J. Walley (Hyde Lea, Stafford, UK)

P.A. Whigham (University of Otago, Dunedin, New Zealand)
S. Worner (Lincoln University, Christchurch, New Zealand)
X. Yao (University of Birmingham, Edgbaston, Birmingham, UK)

9. Registration

Early bird	Registration fee (RMB)		Normal	Registration fee (RMB)	
2014.5.20 ~	Standard	3000	2014.7.21~	Standard	3500
~2014.7.20	Student	1800		Student	2000

10. Contacts

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SPECIAL ISSUE



Aim and Scope:

The complex interaction between ecosystem dynamics and social-economic development is a challenging subject, which is more obvious in urbanization. The special issue aims at high-level discussions on the advances of theory, technology and cases about using informatics for ecosystem research. It will provide a chance for academic and decision-making professionals to exchange recent progress of theory and method to investigate the anthropogenic impacts on ecosystem, particularly urban systems. Topics of relevance include but are not limited to the following areas.

1. River development and conservation

Including water quality modelling, aquatic ecosystem modelling, environmental and ecological flow, habitat modeling and conservation, eutrophication modeling and algal bloom forecasting, etc.

2. A broad outline of the character and composition of the resources and energy required sustaining all urban activities

Including land transformation, modifications of energy, hydrological and nutrient cycles, economic agglomeration, industrial intensification, population attraction and waste production.

3. Determining and maintaining levels of sustainability and health in cities around the world

Including the contribution of cities to global warming, opportunities for better management of waste electronics and storm water, and the use and fate of phosphorus—a resource that is both potentially scarce and polluting, etc.

Guest Editors

Prof. Qiuwen Chen	CEERNHRI, Email: qwchen@nhri.cn
Prof. Bin Chen	Beijing Normal University, E-mail: chenb@bnu.edu.cn

Submission details

All the papers should be full journal length versions and follow the guidelines set out by <http://www.elsevier.com/journals/ecological-informatics/1574-9541/guide-for-authors>.

Manuscripts should be submitted online at <http://ees.elsevier.com/ecoinf/> choosing “**Special issue**” as article type, no later than **March 20, 2014**. When uploading your paper, please ensure that your manuscript is marked as being for this special issue. Information about the manuscript (title, full list of authors, corresponding author’s contact, abstract, and keywords) should also be sent to the corresponding editor Qiuwen Chen (qchen@rcees.ac.cn) and Bin Chen (chenb@bnu.edu.cn). All the papers will be peer-reviewed following the Elsevier reviewing procedures.

Expected Dates Schedule (Important Dates)

20 September 2014: Final Version Due

Winter 2014 (or spring 2015): Special Issue Publishing Date