

# Call for Papers



## SPATIAL ACCURACY 2008

### The 8th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences

June 25-27, 2008 Shanghai, China

#### Topics

The International Symposia on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences have been held at various locations since 1994. This series of biennial symposia focuses on uncertainty in spatial information, analysis, and applications emphasizing natural resources and the environment. The topics highlighted in previous symposia on spatial accuracy have been related to measuring, describing, modeling, propagating, and visualizing uncertainty in spatial information and process models, especially those concerning environment and natural resources. The 8th symposium will follow this tradition. To emphasize strategic and systematic research, Accuracy 2008 will include the following topics:

- Accuracy metrics and spatial assessment
- Data assimilation and uncertainty quantification
- Error analysis in geomatic engineering
- Geostatistics for spatial uncertainty
- Metadata descriptions of uncertainty
- Models of uncertainty for discrete objects, continuous fields, and their integration
- Models of uncertainty for nominal and ordinal fields
- Models of scale and methods for scaling
- Semantic interoperability and uncertainty analysis
- Spatial data conflation and information fusion
- Uncertainty characterization in digital terrain analysis
- Uncertainty characterization in ecological and environmental modeling
- Uncertainty characterization in social systems and their interactions with environmental systems
- Uncertainty characterization in landscape dynamics and global change
- Vagueness in spatial information and analysis
- Validation in remote sensing
- Visualization of uncertainty

These topics are non-exclusive and set no limits for potential contributors.

#### Publications

The plan is to have the symposium proceedings published in a book format by World Academic Union (Press), with whom a contract is being worked on, so that all papers accepted will be cited by ISTEP. A number of papers may be selected from those presented at the symposium and published as a special issue of the International Journal of Remote Sensing following the symposium.

#### Schedule

##### Submission of abstracts:

January 20, 2008

##### Notification to authors:

February 11, 2008

##### Submission of final papers:

April 21, 2008

##### Early registration:

April 21, 2008

##### Pre-symposium workshop:

June 23 - 24, 2008

##### Symposium:

June 25 - 27, 2008

#### Keynote Speakers

The Organizing Committee have appointed 6 keynote speakers:

- Dr Peter Atkinson (University of Southampton, GB)
- Dr Carol Gotway Crawford (Centers for Disease Control and Prevention, US)
- Dr Bryan Pijanowski (Purdue University, US)
- Dr John Shi (Hong Kong Polytechnic University)
- Dr Steve Stehman (State University of New York, US)
- Dr Alfred Stein (International Institute of Geoinformation Science and Earth Observation - ITC, NL)

who will join us on this occasion and present the state-of-the-art about uncertainty in geospatial information, analysis, modeling, and applications.

#### Pre-Symposium Workshop (June 23 - 24, 2008)

This two-day workshop presents theory and practice of spatial uncertainty propagation analysis, by presenting and discussing various uncertainty propagation techniques, emphasizing on Monte Carlo simulation methods. Workshop participants will receive a copy of and learn to use the Data Uncertainty Engine software tool, which is specifically designed to help users define, assess, store and simulate uncertain spatio-temporal environmental data.

##### Workshop tutors:

Gerard B.M. Heuvelink (Wageningen University, The Netherlands)

James D. Brown (National Oceanic and Atmospheric Administration, USA)

Further information about the symposium may be found at:  
<http://2008.spatial-accuracy.org>

#### Contact:

Jingxiong ZHANG (Organizing Committee):  
[accuracy2008@spatial-accuracy.org](mailto:accuracy2008@spatial-accuracy.org)

Yong GE (Secretariat):  
[gey@lreis.ac.cn](mailto:gey@lreis.ac.cn)



## International Spatial Accuracy Research Association Steering Committee

- Chair:** Ronald McRoberts (USDA Forest Service, USA)  
**Members:** Gerard Heuvelink (Wageningen University, NL)  
 José Quintanilha (University of Sao Paulo, BR)  
 Kim Lowell (Laval University, CA)  
 Linda Lilburne (Landcare Research, NZ)  
 Mario Caetano (Portuguese Geographic Institute, PT)

## Symposium Chairs

- Hon. Chairs:** Jingnan Liu (Wuhan University, CN)  
 Xiaowen Li (Beijing Normal University & CAS, CN)  
**Chairs:** Deren Li (Wuhan University, CN)  
 Michael Goodchild (University of California, US)  
**Co-chairs:** Jianya Gong (Wuhan University, CN)  
 Chenghu Zhou (Institute of Geographical Science, CN)

## Organizing Committee

- Chair:** Giles Foody (University of Nottingham, GB)  
**Co-chairs:** Gerard Heuvelink (Wageningen University, NL)  
 Zongjian Lin (Chinese Academy Survey/Mapping, CN)  
**Members:** Peter Atkinson (University of Southampton, GB)  
 Daniel Griffith (University of Texas, US)  
 Phaedon Kyriakidis (University of California, US)  
 Linda Lilburne (Landcare Research, NZ)  
 Kim Lowell (University of Melbourne, AU)  
 Alfred Stein (Geo-Info Sci & Earth Obs - ITC, NL)  
 Jingxiang Zhang (Wuhan University, CN)  
**Secretary:** Yong Ge (Institute of Geographical Science, CN)

## Local Organizing Committee

- Chairs:** Qingquan Li (Wuhan University, CN)  
 Wenjun Zhang (Shanghai Jiaotong University, CN)  
**Co-chairs:** Youchuan Wan (Wuhan University, CN)  
 Xiaofan Wang (Shanghai Jiaotong University, CN)  
**Members:** Jie Yu (Wuhan University, CN)  
 Tao Fang (Shanghai Jiaotong University, CN)  
 Qingyun Du (Wuhan University, CN)  
 Qingming Zhan (Wuhan University, CN)  
 Xiuxiao Yuan (Wuhan University, CN)  
 Peijun Du (China Univ. of Mining and Technology, CN)  
 Huayi Wu (Wuhan University, CN)  
 Shuliang Wang (Wuhan University, CN)  
 Yanchen Bo (Beijing Normal University, CN)

## Scientific Committee

Member	Institution	Country	Member	Institution	Country
Richard Aspinall	The Macaulay Land Use Institute	GB	Linda Lilburne	Landcare Research	NZ
Peter Atkinson	University of Southampton	GB	Jingnan Liu	Wuhan University	CN
Patrick Bogaert	Catholic University of Louvain	BE	Yongcai Liu	Shanghai Jiaotong University	CN
Mário Caetano	Portuguese Geographic Institute	PT	Kim Lowell	University of Melbourne	AU
Frank Canters	Free University of Brussels	BE	Xiushan Lu	Shandong Univ. of Science & Technology	CN
Yohay Carmel	The Technion	IL	Ronald McRoberts	USDA Forest Service	US
Xiaoyong Chen	Asian Institute of Technology	TH	Jeffrey Morisette	NASA Goddard Space Flight Center	US
Qiuming Cheng	York University	CA	Todd Mowrer	USDA Forest Service	US
Keith Clarke	University of California, Santa Barbara	US	Sarah Nusser	Iowa State University	US
Russ Congalton	University of New Hampshire	US	Atsu Okabe	University of Tokoyo	JP
Ray Czaplewski	USDA Forest Service	US	Marco Painho	ISEGI, New University of Lisbon	PT
Tao Fang	Shanghai Jiaotong University	CN	Edzer Pebesma	University of Muenster	DE
Peter Fisher	City University, London	GB	Maria Pereira	IST, Technical University of Lisbon	PT
Cidália Fonte	University of Coimbra	PT	Gilmore Pontius Jr	Clark University	US
Giles Foody	University of Nottingham	GB	José Quintanilha	University of Sao Paulo	BR
James Foster	Goddard Space Flight Center	US	Matt Rice	George Mason University	US
John Gallant	Australian National University	AU	Vincent Robinson	University of Toronto	CA
Yong Ge	Institute of Geographical Science, CAS	CN	Jiancheng Shi	University of California, Santa Barbara	US
Jianya Gong	Wuhan University	CN	Wenzhong Shi	Hong Kong Polytechnic University	HK
Michael Goodchild	University of California, Santa Barbara	US	Ashton Shortridge	Michigan State University	US
Pierre Goovaerts	BioMedware	US	Ning Shu	Wuhan University	CN
Sucharita Gopal	Boston University	US	Brian Steele	The University of Montana	US
Daniel Griffith	University of Texas, Dallas	US	Steve Stehman	State University of New York	US
Tomislav Hengl	Joint Research Center	IT (EU)	Alfred Stein	ITC	NL
Gerard Heuvelink	Wageningen University	NL	Neil Stuart	The University of Edinburgh	GB
Gary Hunter	University of Melbourne	AU	Stefano Tarantola	Joint Research Center	IT (EU)
Xiuping Jia	The University of New South Wales	AU	Jinfeng Wang	Institute of Geographical Science	CN
Richard Kelly	University of Waterloo	CA	Martin Wooster	King's College London	GB
Phaedon Kyriakidis	University of California, Santa Barbara	US	Lun Wu	Peking University	CN
Murray Lark	Rothamsted Research	GB	Tianxiang Yue	Institute of Geographical Science	CN
Yee Leung	Chinese University of Hong Kong	HK	Xiwu Zhan	NOAA NESDIS Ctr. Sat. App. & Res.	US
Deren Li	Wuhan University	CN	Jingxiang Zhang	Wuhan University	CN
Xiaowen Li	Beijing Normal University & CAS	CN	Jixian Zhang	Chinese Academy of Survey/Mapping	CN
Xin Li	Cold and Arid Regions Research	CN	Chenghu Zhou	Institute of Geographical Science	CN
Soo Chin Liew	National University of Singapore	SG	A-Xing Zhu	Institute of Geographical Science	CN