# Wednesday August 17, 2005

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<tr>
<th>Time</th>
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<tr>
<td>8:00 - 9:00</td>
<td>Registration</td>
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<tr>
<td>9:00 - 10:00</td>
<td>Opening Session with Invited Keynote Speakers</td>
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<tr>
<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30 - 12:00</td>
<td>TS I-1: Emergency Planning &amp; Response</td>
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<td>TS I-2: 3D, DEM &amp; Multi-dimensional Data Modeling</td>
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<td>TS I-3: Geospatial Computing &amp; Algorithms I</td>
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<td>Posters I/Exhibition</td>
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<td>12:00 - 1:00</td>
<td>Keynote Lunch</td>
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<td>1:00 - 2:30</td>
<td>TS I-4: LBS &amp; GPS Integration for Navigation</td>
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<td>TS I-5: Modeling Spatial Processes</td>
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<td>TS I-6: Geospatial Computing &amp; Algorithms II</td>
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<td>Posters I/Exhibition</td>
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<td>2:30 - 3:00</td>
<td>Coffee Break</td>
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<td>3:00 - 4:30</td>
<td>TS I-7: Location Based Services &amp; Mobile GIS</td>
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<td>TS I-8: Hydrological Modeling</td>
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<td>TS I-9: Data Fusion, Quality &amp; Interoperability</td>
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<td>Posters I/Exhibition</td>
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<td>6:00 – 8:00</td>
<td>Conference Reception</td>
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# Thursday August 18, 2005

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<th>Time</th>
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<tr>
<td>8:30 - 10:00</td>
<td>Plenary Session with Invited Panellists</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30 - 12:00</td>
<td>TS II-1: Geoinformatics for Disaster Management</td>
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<td>TS II-2: Social Applications</td>
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<td>TS II-3: Image Processing &amp; Feature Extraction I</td>
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<td>Posters II/Exhibition</td>
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<td>12:00 - 1:00</td>
<td>Keynote Lunch</td>
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<td>1:00 - 2:30</td>
<td>TS II-4: Special Student Session I</td>
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<td>TS II-5: Environmental Modeling I</td>
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<td>TS II-6: Image Processing &amp; Feature Extraction II</td>
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<td>Posters II/Exhibition</td>
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<td>2:30 - 3:00</td>
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<td>3:00 - 4:30</td>
<td>TS II-7: Special Student Session II</td>
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<td>TS II-8: Environmental Modeling II</td>
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<td>TS II-9: Web GIS &amp; GI Services I</td>
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<td>Posters II/Exhibition</td>
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<td>7:00 – 9:00</td>
<td>CPGIS BOD Meeting</td>
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# Friday August 19, 2005

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<tr>
<td>8:30 - 10:00</td>
<td>TS III-1 Spatial Decision Support Systems</td>
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<td>TS III-2 Advanced Geoinformatics Applications</td>
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<td>TS III-3 Web GIS &amp; GI Services II</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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<td>10:30 - 12:00</td>
<td>Closing Session</td>
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Wednesday Program, August 17, 2005

Opening Session with Invited Keynote Speakers

Time: 9:00 – 10:00 AM
Location: ENG Lecture Hall
Moderator: TBA
Speakers: TBA

Morning Technical Sessions:

TS I-1 Emergency Planning & Response

A006: Human-GIS Interactions and Decision-Support during Crisis and Disaster Responses, Guoray Cai (School of Information Sciences and Technology, Pennsylvania State University)

A033: Integration of GIS and Traffic Simulation System for Incident Response Units Dispatching, Bo Huang (Department of Geomatics Engineering, University of Calgary), Xiaohong Pan (Department of Civil Engineering, National University of Singapore)

A065: A Mobile Computing Approach for Rescue Management: Case study on Wayfinding after Earthquake, Mohammad Reza Malek (Dept of Surveying Eng. and Geomatics, Eng. Faculty, University of Tehran, Dept. of Research, National cartographic Center, Iran), Mahmoud Reza Delavar (Dept of Surveying Eng. and Geomatics, Eng. Faculty, University of Tehran, Iran)

A100: Development of a GIS/GPS-Based Emergency Response System, Pinliang Dong (Department of Geography, University of North Texas)

A129: Dealing With a Terrorist Attack in Pakistan - A University Hospital Perspective, Muhammad Shahid (Emergency Medicine, Aga Khan University Hospital Karachi, Pakistan), Rifat Rehmani (Emergency Medicine, Aga Khan University Hospital Karachi, Pakistan), Muhammad Saleem Khan (Department of Community Medicine, Aga Khan University Hospital Karachi, Pakistan)

TS I-2 3D, DEM & Multi-dimensional Data Modeling

A004: 3D Features Modeling and Real-time Visualization of Urban GIS, Larry Zhang (eMap Division, ISSD/IT, Saudi Arabia)

A045: Snapshot-History Data Model: A New Kind of Spatiotemporal Data Model, Kezhong Feng, Qing Wan, Guoli Hui, Feng Lu (State Key Lab of Resource and Environment Information System, Institute of Geographic Science and Resources Research, CAS, Beijing)

A064: Method Research on the Determination of the Key-scale Based on the Theory of the Extended Fractal Dimension, Wenjing Li, Hehai Wu (School of Resource and Environment Science, Wuhan University)
A086: Relative performance of LiDAR data configured with a range of sampling densities in DEM based terrain-attribute generation, Xiaoye Liu, Jim Peterson, Joshphar Kunapo, Shobhit Chandra (Centre for GIS, School of Geography and Environmental Science, Monash University, Australia)

A101: Comparison of Rational Function Model Based 3D Reconstruction Algorithms, Ruisheng Wang, Yong Hu, Vincent Tao (Geospatial Information and Communication Technology Lab, Department of Earth & Space Science and Engineering, York University)

TS I-3 Geospatial Computing & Algorithms I

Time: 10:30 – 12:00 AM
Location: TBA
Moderator: TBA

A009: A practical comparison of three fastest shortest path algorithms on road networks, Feng Lu (State Key Laboratory of Resources and Environmental Information System, The Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences), Poh-Chin Lai (Department of Geography, The University of Hong Kong)

A044: A preliminary framework for cooperative traffic data application, Xiang Li, Hui Lin (Joint Laboratory for Geoinformation Science, The Chinese University of Hong Kong)

A060: Geographic Patterns of Zhuang [Tai] Kinship Terms in Guangxi and Border Areas: A GIS Analysis of Language and Culture Change, Wei Luo (Department of Geography, Northern Illinois University), John Hartman, Pingwen Huang (Department of Foreign Languages and Literatures, Northern Illinois University), Liu Jianxun (Department of Linguistics, Central University for Nationalities-Beijing), Vinya Sysamouth (Development Studies, University of Wisconsin-Madison)

A075: Uncertainty modeling and geographical information for vulnerability analysis of disaster risk, Shanzhen Yi, Weng Tat Chan (Department of Civil Engineering, National University of Singapore), Bo Huang (Department of Geomatics Engineering, University of Calgary)

A095: Comparative Analysis of Algorithms for Automatic Vectorization of Scanned Maps using Mathematical Morphology and Voronoi Diagrams, Girija Dharmaraj, D. Mioc (Department of Geomatics Engineering, University of Calgary), F. Anton (Department of Computer Science, University of Calgary)

Afternoon Technical Sessions:

TS I-4 LBS & GPS Integration for Navigation

Time: 1:00 – 2:30 PM
Location: TBA
Moderator: TBA

A020: Indoor Location Sensing, Usha Prem, D. Thirumalaivasan (Institute of Remote Sensing, Anna University, Chennai, India)

A021: Point GPS/INS System for Direct Geo-Referencing, Yufeng Zhang, Yang Gao (Department of Geomatics Engineering, University of Calgary)

A022: Impact Analysis of Galileo Navigation System on Precise Point Positioning, Yang Gao, X. Shen (Department of Geomatics Engineering, University of Calgary)
**TS I-5 Modeling Spatial Processes**

**Time:** 1:00 – 2:30 PM  
**Location:** TBA  
**Moderator:** Dr. Suzana Dragicevic

**A077-1: Using Extensible Component Objects for Constructing Observable Spatially Explicit Ecological Simulation Models with Fuzzy Decision Making**, V. B. Robinson (Department of Geography, University of Toronto), P.A. Graniero (Department of Earth Sciences, University of Windsor)

**A077-2: Modelling wildlife connectivity using graph theory**, C. Rae1, K. Rothley (Department of Resource and Environmental Management Simon Fraser University), S. Dragicevic (Spatial Analysis and Modeling Laboratory, Department of Geography Simon Fraser University)

**A077-3: Modelling Aspen forest expansion in Waterton Lakes National Park, Alberta**, C. Burnett (Mapswest Consulting), L. Levesque (M.Sc Student, Interdisciplinary Studies - Env. Studies and Department of Geography University of Victoria), A. Fall (Gowlland Technologies Ltd), A. R. Watt (Senior Park Warden Waterton Lakes, National Park Parks Canada)

**A077-4: Modeling land-use transitions with fuzzy controlled cellular automata**, S. Dragicevic (Spatial Analysis and Modeling Laboratory, Department of Geography, Simon Fraser University)

**A083: GIS Representation through Geological Data Modeling, Symbology In Korea**, Jae Hong Hwang, Kwang Hoon Chi (National Geoscience Information Center, Korea Institute of Geoscience And Mineral resources), Cheng wonseok (Dept of Geoenvironmental Science, Chungbuk National University)

**TS I-6 Geospatial Computing & Algorithms II**

**Time:** 1:00 – 2:30 PM  
**Location:** TBA  
**Moderator:** TBA

**A054: A Network Sharing Model on Cartographic Symbol**, Zhangcai Yin, Lin Li (School of Resource and Environment Science, Wuhan University)

**A060: Qualitative behavior of a point object in an ubiquitous computing environment**, Byoungjae Lee and DOUGLAS M. FLEWELLING (Department of Geography, State University of New York at Buffalo)

**A084: Software Streaming Technology on Wireless Environments**, Jungsook Kim, Kungbook Sung, and Byung-Tae Jang (Telematics Research Division, ETRI., KOREA.)

**A116: Impact Analysis of application Open Source software solutions for developing Spatial Data Infrastructures in Developing countries**, Akmal Paiziev (Wageningen UR)

**A145: Distributed GIS for Shanghai Landscape Management**, Ying Cao, Chaowei Yang, Yue Zhu (Center of Earth Observing and Remote Sensing, School of Computational Sciences, George Mason University)

**TS I-7 Location Based Services & Mobile GIS**

**Time:** 3:00 – 4:30 PM  
**Location:** TBA
Moderator: TBA

A017: User Interface Design for Location-Based Decision Services, Claus Rinner (Department of Geography, University of Toronto), M. Raubal (Institute for Geoinformatics, University of Münster, Germany), B. Spigel (Department of Geography, University of Toronto)

A057: Designing and Implementing of the Mobile Navigation and Positioning System Based on PDA, Bo Chen (Institute of Surveying and Mapping, Information Engineering University, Guilin Air Force College, China), Renli Wang (Institute of Surveying and Mapping, Information Engineering University), Yang Yang (Institute of Surveying and Mapping, Information Engineering University, Guilin Air Force College, China)

A071: A Spatial Decision Support System for Location-based Traffic Data, Gabriel Pestana, Miguel Mira da Silva, Augusto Casaca (INESC-ID/INOV, Portugal), Nuno Carmo, João Nunes (ANA-Aeroportos de Portugal, Portugal)

A103: Location-Based Infrastructure Interdependency: New Term, New Modeling Approach, Rifaat Abdalla, Vincent Tao (York Lab of Geospatial Information and Communication Technology, Center for Research in Earth and Space Science, York University)

A146: Location Based Services over IP-based Networks, Amit Khanna (Tata Consultancy Services Ltd., UK)

**TS I-8 Hydrological Modeling**

Time: 3:00 – 4:30 PM  
Location: TBA  
Moderator: TBA

A056: Remote Sensing and GIS Applications in Disaster Management: Case Studies From India, Toleti BVM Rao, Jitendra Prasad (Haryana State Remote Sensing Application Centre), B. S. Chaudhary (Department of Earth Sciences, Kurukshetra University)

A092: GIS based Rainfall Spatial Distribution Model, Weining Lin

A093: Investigation of GIS Based Surface Hydrological Modeling in Identification of Infiltration Zones in Urban Watershed, Weining Lin


A128: GIS-based hydrologic modeling for assessing and reducing pollution from runoff and other non-point sources in East Baton Rouge Parish, Louisiana, Paul Kemp, Hassan Mashriqui, Elaine Evers, Robert Cunningham (Louisiana State University) and Gil Morin (Baton Rouge City-Parish Planning Commission)

**TS I-9 Data Fusion, Quality & Interoperability**

Time: 3:00 – 4:30 PM  
Location: TBA  
Moderator: TBA

A001: Spatial OLAP Data Modulation, Gabriel Pestana (INESC-ID Rua Alves Redol nº 9, PORTUGAL), Miguel Mira da Silva (Departamento de Engenharia Informática, Instituto Superior Técnico, PORTUGAL), Henrique Madeira (Departamento de Engenharia Informática, FCTUC Pólo II, PORTUGAL)
**A049: Transforming the Conventional Graphic Layouts of Civic Infrastructure into Geospatial Themes for Urban Management**, Amjed Siddique, M. J. BUTT, C. A. RAHIM (Department of Space Science, University of the Punjab, Quaid-e-Azam Campus, Pakistan)

**A070: The Integrative workflows of the Analogy Map and Digital map Production**, Haiyan Liu, Qun Sun, Qiang Xiao (Department of Cartography, Institute of Surveying and Mapping)

**A139: Design of spatio-temporal information systems with an object oriented knowledge representation approach**, Bogdan Moisuc, Paule-Annick Davoine, Jérôme Gensel, Hervé Martin (Laboratoire LSR-IMAG, Grenoble, France)

**A144: Combined Use of Distributed and Protected Geodata**, Andreas Matheus (University of the Federal Armed Forces Munich, Information Systems Laboratory IIS, Germany)

## Poster Sessions

### Poster Session I: Advanced Geospatial Technology

**Time:** 9:30 AM – 4:30 PM  
**Location:** TBA  
**Moderator:** TBA

**A013: Change Detection of Linear Man-Made Objects Using Feature Extraction Technique**, Santosh Phalke, I. Couloigner (Department of Geomatics Engineering, University of Calgary)

**A014: Modeling Cardinal Direction Relations between Fuzzy Regions**, Haibin Sun, Wenhui Li (College of Computer Science and Technology, Jilin University, China)

**A015: Integrated Spatial Reasoning Based on Rules**, Haibin Sun, Wenhui Li (College of Computer Science and Technology, Jilin University, China)

**A040: Study of the Geospatial Data Integration and Update for the E-Government Development**, Junsan Zhao (Faculty of Land and resource Engineering, Kunming University of Science and Technology), Tao Xu, Yong Li (Kunming YunJindi GeoInformation Co.Ltd., Kunming)

**A058: Research on spatial deviation analysis model of land-use change**, Xinchang Zhang (Department of Remote Sensing and GIS Engineering, Sun Yat-sen University), Qiong Pan (Map Press House of Guangdong Province Guangzhou), Yuan Zhao, Qiuhua Huang (Department of Remote Sensing and GIS Engineering, Sun Yat-sen University)

**A062: The Integral Error Band for GIS Line Segments**, Xinzhou Wang (School of Geodesy & Geomatics, Wuhan University), Yangsheng You (School of Geodesy & Geomatics, Wuhan University, School of Civil Engineering, Chongqing University), QIU Weining (School of Geodesy & Geomatics, Wuhan University)

**A069: The Classification of Spatial Data Error from the Workflows’ View**, Haiyan Liu, Qun Sun (Department of Cartography, Institute of Surveying and Mapping)

**A076: Extraction of shoreline by Edge Detection**, masoud karamali (Kolej University Sains Dan Teknologi Malaysia)

**A091: LU/LC Classification of Coastal Landforms using Stacked Indices**, Yogesh Agarwadkar

**A105: Digital Elevation Model Extraction from IKONOS Stereo Images Using Rational Function Model**, Xu Sun (Civil Engineering Department, Ryerson University)
Thursday Program, August 18, 2005

Industry Plenary Session

Time: 8:30 – 10:00 AM
Location: ILLC International Room
Moderator: TBA

Morning Technical Sessions:

TS II-1 Geoinformatics for Disaster Management

Time: 10:30 – 12:00 AM
Location: TBA
Moderator: TBA


A055: Study of Storm Surge Disaster Prevention and Reduction Information system Based on GIS, Junhua Teng (Second Institute of Oceanography, Lab. of Ocean Dynamic Processes & Satellite Oceanography, Ocean University of China), Mei-Xian Sun (Second Institute of Oceanography, Lab. of Ocean Dynamic Processes & Satellite Oceanography), YU Fu-Jian (National Marine Environment Forecast Centre, China)

A079: Land-Oceandynamics around the Oil Producing Niger Delta Area (NIGERIA): Opportunity for an African Tsunami, Alabi SONEYE (University of Lagos)

A085: GIS Based Natural Disaster Management System, Gresha Bhatia

A148: Monitoring, Control and Surveillance System (MCS) for the Philippine Exclusive Economic Zone (EEZ), Melchor Marvin C. (Austria)

TS II-2 Social Applications

Time: 10:30 – 12:00 AM
Location: TBA
Moderator: Dr. Fuhu Ren
A037: Using GIS to Measure Job Accessibility in Cleveland, 1980-2000, Fahui Wang (Department of Geography Northern Illinois University)

A038: The impacts of Employment Centers on Job and Housing: a GIS-based Measurement, Qisheng Pan (School of Public Affairs Texas Southern University)

A047: Effect Of Modifiable Areal Unit Problem In The Analysis And Interpretation Of SriLankan Lankan Arlimentary General Election Results, Dimushya, Ranjith Premalal De Silva (Postgraduate Institute of Agriculture University of Peradeniya, Sri Lanka)

A063: Developing Pedestrian Behavioral Models for Crowd Management in Outdoor Recreational Events, SHI Jingjing, LIN Hui (Department of Geography & Joint Laboratory for Geo-information Science, The Chinese University of Hong Kong)

A140: Urban Change Detection and Population Prediction Modeling Using Remotely Sensed Images, Jonathan Li, Hongmei Zhao (Geomatics and Virtual Environment Lab, Department of Civil Engineering, Ryeson University)

**TS II-3 Image Processing & Feature Extraction I**

Time: 10:30 – 12:00 AM  
Location: TBA  
Moderator: Dr. Jonathan Li

A028: Landscape Structure and Heterogeneity Analysis with Object-Oriented Image Textural Indices, Jincheng Gao, Douglas G. Goodin (Department of Geography, Kansas State University), Guoqing Zhou (Department of Civil Engineering and Technology, Old Dominion University)

A068: Using Hyperspectral Data for Forest Biochemical Parameters Estimation, Yongqin Zhang, Jing M. Chen (University of Toronto), Sean C. Thomas, Thomas Noland (University of Toronto)

A078: Automatic Urban Road Extraction Using Airborne Laser Scanning/Altimetry and High-resolution Satellite Data, ashwini kumar pandey

A141: Airborne Video Registration for Forest Fire Monitoring, Gouqing Zhou (Laboratory for Earth Observing and Informatics Old Dominion University, Department of Electrical and Electronic Engineering, East China Jiaotong University,) Chaokui Li, and Pinggang Song (Department of Electrical and Electronic Engineering, East China Jiaotong University)

A150: Using Linear Features for Image-to-map Registration, C. X. Wang and A. Stefanidis (NCGIA, Department of Spatial Information Science and Engineering, University of Maine, USA)

**Afternoon Technical Sessions:**

**TS II-4 Special Student Session I**

Time: 1:00 – 2:30 PM  
Location: TBA  
Moderator: TBA

A026: Wetlands Identification through Fuzzy Segmentation of Remote Sensing Imagery, Wenya Chiu, Isabelle Couloigner (Department of Geomatics Engineering, University of Calgary)

A050: Effect of grid size on runoff and flow responses in a GIS-based hydrologic model, Y.B. Liu, Y. Yi and F. De Smedt (Department of Hydrology and Hydraulic Engineering, Vrije Universiteit Brussel)
**A059: A GIS-based measurement of transportation needs in rural New South Wales Australia**
Shahbakhti Rostami, Bruno Parolin (Department of the Built Environment, University of New South Wales, Australia)

**A082: Road Extraction from Satellite Imagery Using Fractals and Morphological Image Processing,**
Ojaswa Sharma, Mioc, M., Habib, A. (Department of Geomatics Engineering, University of Calgary)

**TS II-5 Environmental Modeling I**

*Time:* 1:00 – 2:30 PM  
*Location:* TBA  
*Moderator:* TBA

**A007: Study on the Security of Human Settlements based on RS & GIS,** Xindong He, Qizhi MAO  
(Center for Science of Human Settlements, Tsinghua University, China)

**A067: Integrating biophysical characters, microclimate and human factors in forest fire risk modeling,** Dr. Alok Saxena (Joint Director, Forest Survey of India, Dehradun, India) and Parul Srivastava (Technical Associate, Forest Survey of India, Dehradun, India)

**A119: Research on the application of Information grid in urban spatial heat environment analysis**
Mingyi Du (Beijing Institute of Civil Engineering and Architecture)

**A125: Bay of Bengal Cyclone Surge Modeling Program: Use of Super Computer Technology and GIS for Early Warning,** Hassan S. Mashriqui, G. Paul Kemp, Ivor van Heerden (LSU Hurricane Center, Louisiana State University), Joannes Westerink (University of Notre Dame), Brian D. Ropers-Huilman (Center for Computation & Technology (CCT) at LSU), Kate Streva, Ahmet Binselam, Young S. Seok (LSU Hurricane Center, Louisiana State University)

**A132: The Design and Implementation of the Regional Resource and Environment Information System,** Bin Liu, Haiqiang Xin, Hui Wen (Xinjiang Geomatics Center)

**TS II-6 Image Processing & Feature Extraction II**

*Time:* 1:00 – 2:30 PM  
*Location:* TBA  
*Moderator:* Dr. Dongmei Chen

**A034: Multi-resolution Analysis and Classification for Improving Land use/cover Mapping from Remotely Sensed Data,** Dongmei Chen (Department of Geography, Queen’s University)

**A041: Real Time Rectification for Air-borne SAR Image with no Ground Control Point Supported by GPS Position Data**, LAN Chao-zhen, ZHU Cai-ying, JIN Guo-Wang, XU Qing (Institute of Surveying and Mapping, Zhengzhou, China)

**A102: Multi-sensor data integration for monitoring precipitation development processes**
Iren Rubinstein (Array Systems Computing Inc.)

**A136: Using Unsupervised Methods to Classify Remote Sensing Images**
Yucheng Wang  
(Department of Mechanical and Industrial Engineering, Ryerson University)

**A147: Object-Oriented Land Use/Cover Classification of Urban Area Using IKONOS Satellite Data,**
Jie Tian and DongMei Chen (Department of Geography, Queen’s University)

**TS II-7 Special Student Session II**

*Time:* 3:00 – 4:30 PM
**TS II-8 Environmental Modeling II**

**A043:** *Study on the Framework of Applying WebGIS to Public Participation in Urban Planning*, Lei Wu, Anrong Dang (School of Architecture, Tsinghua University)

**A053:** *A thematic geographic information system for meteorological disaster prevention and mitigation*, Pingao Liu (Department of Urban and Resources Sciences, Nanjing University), N. Jiang (Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences)

**A104:** *Performance Improvement for Navigation Guidance*, Qiang Wu, Bo Huang (Department of Geomatics, University of Calgary)

**A112:** *Application Study on Digital Reservoir’s Flood Prevention and Regulation by Spatial Information Techniques*, Yong Liang, Xiangguo Lin (Information Science and Engineering Department of Shandong Agricultural University, Taian)

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**TS II-9 Web GIS & GIServices I**

**A089:** *Estimating Radon Concentrations with Dispersion Modeling and GIS*, Khalid Hasan (Tippecanoe County Government), Lin Liu (Department of Geography, University of Cincinnati)

**A090:** *Spatial Targeting of Conservation Tillage to Improve Water Quality and Carbon Sequestration Benefits*, Wanhong Yang, Chaodong Sheng (Department of Geography, University of Guelph)

**A107:** *Use of GIS to create a visual model for criteria pollutants in Kay County, Oklahoma*, Mukul Sonwalkar (University of Oklahoma, USA)

**A134:** *Experimental Hurricane Surge Modeling in Louisiana Using GIS*, Hassan Mashriqui, Paul Kemp, Ivor van Heerden (LSU Hurricane Center, Louisiana State University), Joannes Westerink, Jesse Feyen (University of Notre Dame), G. Brian D. Ropers-Huilman (Center for Computation & Technology (CCT) at LSU), Kate Streva, Henrike Brecht, Stephanie T Pedro, Young Yang, John C. Pine, Ahmet Binselam (LSU Hurricane Center, Louisiana State University)

**A142:** *Multi-variables Analysis of Urban Head Island*, Gouqing Zhou (Laboratory for Earth Observing and Informatics Old Dominion University, Department of Electrical and Electronic Engineering, East China Jiaotong University), Weirong Chen (Laboratory for Earth Observing and Informatics Old Dominion University), Pinggang Song (Department of Electrical and Electronic Engineering, East China Jiaotong University)

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**A019:** *Benchmarking Road Safety Situations Using OGC Model of Portrayal Workflow*, Imad Ali, Åke Sivertun (GIS-Group, Department of Computer and Information Science, Linköping University)

**A098:** *Using Cascading Web Map Servers and GIS Web Services for Emergency Response Management*, Maria Vasardani, Douglas Flewelling (Department of Geography, University at Buffalo)
**A111: Open-source On-line Community Mapping Tools** Charles Burnett (Department of Geography, University of Victoria), Nedjo Rogers (GroundWorks Learning Centre), Maeve Lydon (GroundWorks Learning Centre), Paul Ramsey (Refractions Research Inc.)

**A113: OGC Compliant Web Services Based GIS Systems** Ahmet Sayar (Community Grids Lab, Indiana University, USA), Marlon Pierce (Community Grids Lab, Indiana University, USA), Geoffrey Fox (Community Grids Lab, Indiana University)

**A130: Realization of a geospatial web service for 3D city models with GML 3.1 visualization** Julian Drerup, D. Dörschlag, L. Plümer (Institute for Cartography and Geoinformation, University of Bonn, Germany)

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### Poster Session II: Advanced Geoinformatics Applications

**Time:** 10:30 PM – 4:30 PM  
**Location:** TBA  
**Moderator:** TBA

**A002:** Interfacing GIS with a process based agro-ecosystem model – case study North China Plain, Georg Bareth, Zhenrong Yu (Geography, University of Cologne)

**A027:** Louisiana Statewide Pipeline GIS, Weiwen Feng, Robert Paulsell, John Snead, R., Hampton Peele (Louisiana Geological Survey, Louisiana State University)

**A035:** A Framework for Rapid Assessment of Crop Damage due to Tropical Cyclone using Remotely Sensed Data, Abhijat A. Abhyankar (Shailesh J. Mehta School of Management, IIT Bombay, Mumbai, India), Anand Patwardhan (Shailesh J. Mehta School of Management, IIT Bombay, Mumbai, India), Arun B. Inamdar (Centre of Studies in Resources Engineering, IIT Bombay, India)

**A036:** Using GIS for Census-Based Customer Targeting, Lihua Zhao (School of Marketing, The University of New South Wales, Australia)

**A039:** A Graph Theory Based Algorithm for Blocking a Fleeing Vehicle with Probabilistic Behavior, Chenglin Xie, Bo Huang, Richard Tay (Department of Geomatics Engineering, University of Calgary)

**A042:** Role of Geoinformatics in Developing Sustainable Land Resources Action Plan in Southern Part of Haryana, India, Bhagwan Singh Chaudhary (Department of Earth Sciences, Kurukshetra University), A.K. Sinha (Department of Geology, University of Rajasthan), Dieter Pelz (Department of Forest Biometrics, University Freiburg)

**A046:** Rapid 3D Mapping Using LIDAR System, Hong-Gyoo Sohn, Kong-Hyun Yun (Yonsei University, Dept of civil engineering), Kee-Tae Kim (Vexcel Corporation, software engineer)

**A052:** Application of Remote Sensing and GIS in Himalayas Mountain (India), Jagbir Singh (Dept. of Geography, SSN College, University of Delhi, India)

**A066:** Drought Monitoring In Iran by NOAA/AVHRR Data, Abdolreza Ansari Amoli (Iran Space Agency (ISA)), Mohammad Morabbi (Iran Space Agency (ISA))

**A087:** Monitoring and analyzing the complexity of urban thermal environment XUE, Yucai FUNG, Tung (Department of Geography and Resource Management, the Chinese University of Hong Kong), TSOU, Jin Yeu (Department of Architecture, the Chinese University of Hong Kong)
A088: Monitoring Deforestation: A Requirement of the Kyoto Protocol, Mark Tulloch (Department of Civil Engineering, Ryerson University)

Development of a GIS-Based Land-Use Change Model for Environmental Monitoring, Abbas Alimohammadi, Ahamad Sarkhosh and Mahdi Jannati (Department of GIS, Faculty of Geomatics Engineering, K. N. Toosi University of Technology)

A118: Investigation of GIS Based Surface Hydrological Modeling in Identification of Infiltration Zones in Urban Watershed, Grace Weining Lin, Grace Weining Lin and Nawshin Rumman (Department of Civil Engineering, Ryerson University)

A120: Investigation of GIS Based Surface Hydrological Modelling in Identification of Infiltration Zones in Urban Watershed, Grace Weining Lin and Nawshin Rumman (Ryerson University, Canada)

A121: Land Cover and Analysis of Watersheds, Iqbal Ahmed and Mafruha Ahmed (Department of Civil Engineering, Ryerson University)

A122: GIS and Remote Sensing in Urban Transportation Planning: A case study of Mississauga, Canada, Khushnud Youusafzai, A. Basit, Dr. Jonathan Li (Department of Civil Engineering, Ryerson University)

A123: Analysis of Spatial Pattern of Commercial Strips in GTA, Ruiqiu Li, Jonathan Li (CFI Virtual Environment Laboratory, Department of Civil Engineering, Ryerson University)

A124: GIS-Based Hydrological Modeling in Toronto Region, Ruiqiu Li, Jonathan Li (CFI Virtual Environment Laboratory, Department of Civil Engineering, Ryerson University)

A143: Travel Time Contour for a Public Transportation System, Yunliang Meng (Department of Geography, University of Calgary)

Friday Program, August 19, 2005

Morning Technical Sessions:

TS III-1 Spatial Decision Support Systems & Decision-Making

Time: 8:30 – 10:00 AM
Location: TBA
Moderator: Dr. Bo Huang

A018: Handling distributed heterogenous data sources to support spatial decision systems Omar Dreza, Howard Williams (Heriot-Watt University, School of Math & Computer Sciences, UK)

A029: Towards A System Of Spatial Data Mining Based Multi-Agent In Emergency Context, Hajer Baazaoui Ep. Zghal (RIADI-GDL Laboratory, ENSI Campus universitaire Manouba, Tunisia), Sami Faïz (LTSIRS Laboratory, Tunis, Tunisia), Henda Ben Ghezala (RIADI-GDL Laboratory, ENSI Campus universitaire Manouba, Tunisia)

A094: A Framework for Modeling and Mining Spatial Data Mart Based GML, Hajer Baazaoui Ep. Zghal (RIADI-GDL Laboratory, ENSI Campus universitaire Manouba, Tunisia), Sami Faïz (LTSIRS Laboratory, ENIT - INSAT, BP. 676-1080, Tunis, Tunisia), Henda Ben Ghezala (RIADI-GDL Laboratory, ENSI Campus universitaire Manouba, Tunisia)
**A131: A Geographic Visualization Approach to Multi-Criteria Decision-Making**, Claus Rinner, J. Taranu (Department of Geography, University of Toronto)

**A137: Travel Demand Model Derived Bus Route for Khulna City, Bangladesh**, A.K.M. Fazlur Rahman (Geographical Solutions Research Center), Md. Ahsanul Kabir (Urban and Rural Planning Discipline, Khulna University)

**TS III-2 Advanced Geoinformatics Applications**

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**A011: A Hypergraph Based Data Model for Coastal and Marine Spatial Applications** Bin Yang, Weiian Wang, Feng Bao, Mingkai Zhu (Department of Surveying and Geomatics, Tongji University), Longxing Li (Mapping and GIS Laboratory, CEEGS, The Ohio State University)

**A072: Estimation of China Crop Yield by NOAA/AVHRR Data** Yanchun Gao, Jun Xia, Jingjie Yu (Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of Geographical Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences (CAS)), Zheng Niu, WANG Changyao (LARSIS, Institute of Remote Sensing Applications, CAS)

**A073: Estimation of Evaporation in China by Remote Sensing** Yanchun Gao, Jun Xia, Jingjie Yu (Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of Geographical Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences (CAS)), Zheng Niu, WANG Changyao (LARSIS, Institute of Remote Sensing Applications, CAS)

**A074: Application of Remote Sensing in Distributed Hydrological Model** Yanchun Gao, Jun Xia, Ge Tan, Jingjie Yu (Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of Geographical Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences (CAS)), Changyao Wang (LARSIS, Institute of Remote Sensing Applications, CAS)

**A110: Geometric Modeling Systems for Functional Enhancements of Tunnel GIS** Steve Y. W. Lam (Department of Land Surveying and Geo-Informatics, Hong Kong Polytechnic University)

**A115: Fuzzy Logic Based Approach for Assessment of Land Utilisation Pattern from Satellite Data** R D GUPTA (Department of Civil Engineering, Motilal Nehru National Institute of Technology, India)

**TS III-3 Web GIS & GIServices II**

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**A051: GIS Integration and Interoperability Based On GIS Service Chain** Wenjue Jia, Jianya Gong (State Key Laboratory for Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University), Bin Li (Department of Geography, Central Michigan University)

**A096: Image Analysis over the Internet** Anoop Manohar Pullivelli, Matthew Reid, Darka Mioc, Ayman Habib (Department of Geomatics Engineering, University of Calgary)

**A097: Web-based Collaborative Decision Support Services** Lei Wang (Department of Geography, York University), Qiuming Cheng (Department of Geography; Department of Earth and Space Science and Engineering, York University)
A108: *The Design for Web-based Geographical Information Server System* Peng Wang, Lina Liu (Zhengzhou Institute of Surveying & Mapping, China)

A133: *Real-time GIS for Floater NEXt generation RADar (FNEXRAD) Weather Data Dissemination*, Ying Cao, Chaowei Yang, Yue Zhu (Center of Earth Observing and Remote Sensing School of Computational Sciences George Mason University)

**Closing Session**

Time: 10:30 – 12:00 AM  
Location: ENG Lecture Hall  
Moderator: TBA  

**Agenda:**  
- CPGIS and Other Awards Presentation  
- GEOIDE Conference Sponsorships Presentation  
- Closing Speech