ICA-ISPRS Joint Workshops 2011
"Our Complex World: Representation, Analysis and Modeling"

Final Program Schedule

Day 1 : Wednesday, 10th August 2011 Burnaby Campus, IRMACS Theatre, Applied Science Building Level 3 (ASB 10900)	
TIME	**EVENT**
8:00 - 8:45	**Registration : IRMACS Centre (ASB 10905)**
8:00 - 8:45	**Welcome Breakfast** Sponsored by the Geography Department, SFU (IRMACS Atrium)
8:45 - 9:15	**Opening Talks** Workshop Chairs and ICA representative Dr. Marguerite Madden, ISPRS representative Dr. Duncan Knowler, Associate Dean, Faculty of Environment, SFU Dr. Veselin Jungic and Pam Borghardt, The IRMACS Centre and MoCSSy, SFU
9:15 - 10:00	**Plenary Talk 1: Keynote Speaker** Drs. Tim Nyerges*, Piotr Jankowski and Brent Hall *Participatory Modeling Methodology: Tightening the GeoWeb Design Loop.* * speaker
10:00 - 10:30	**Coffee break**
10:30 - 12:00	**Session 1-1 : Simulation** Chair: Bin Jiang
Video-conference presentation 1	Jingyi Lin and Bin Jiang. *Modeling complex transportation networks.*
	Vincent Robinson. *An experiment to investigate the influence DEM uncertainty on the simulation of dispersal behavior using a fuzzy decision model.*
	Ma Yan, Zhenjiang Shen and Mitsuhiko Kawakami. *Policy simulation for planning support of downtown revitalization in Kanazawa City, Japan*
	Christina Semeniuk, Marco Musiani, Mark Hebblewhite, Scott Grindal and Danielle Marceau. *Evaluating risk effects of industrial features on woodland caribou habitat selection in west central Alberta using agent-based modelling.*
12:00 - 13:30	**Lunch** Sponsored by the VP Academic, SFU (IRMACS Atrium)
13:30 - 15:00	**Session 1-2 : Agents** Chair: Danielle Marceau
	Zhaoya Gong, Wenwu Tang and David Bennett. *Development of a shared-memory parallel agent-based model of opinion exchange within a multi-core computing environment.*
	Tyler Bonnell, Raja Sengupta, Colin Chapman and Tony Goldberg. *Linking Diseases to Landscapes: An Agent-Based Model simulating the impact of forest composition on the spread of disease in red colobus monkeys.*
	Ryohei Yamashita and Satoshi Hoshino. *Development of an agent-based model for estimation of agricultural land preservation and validity of collective farming systems in rural Japan.*

	Clément Chion, Lael Parrott, Benoit Dubeau, Danielle Marceau, Jacques-André Landry, Samuel Turgeon, Robert Michaud, Cristiane C. A. Martins, Nadia Ménard, Guy Cantin and Suzan Dionne. *How agent-based modelling can be used to inform environmental management of a marine park.*
Audio presentation	Liliana Perez and Suzana Dragicevic. *Swarm intelligence, agents and cellular automata for modeling mountain pine beetle forest disturbance.*
15:00 - 15:30	**Coffee break**
15:30 - 17:00	**Session 1-3 : Spatial Patterns** Chair: Geoffrey Jacquez
	Makoto Tsukai, Syuhei Kayahara, Masashi Kuwano and Makoto Okumura. *Spatial statistics model with spatial aggregation matrix avoiding the modifiable area unit problem.*
	Vijay Mago, Richard Frank, Andrew Reid, Natalia Iwanski and Vahid Dabbaghian. *Modelling the Strengths of Attractors: Probability Measure and Possibility Measure.*
	Seth Spielman. *Lifestyles, activity spaces, and the twilight zone.*
	Valerie Spicer, Jordan Ginther and Katie Wuschke. *Patterns of Perception: Forecasting the perception of crime.*
	Geoffrey Jacquez, Janice Barlow, Andy Kaufmann, Gillian Avruskin, Robert Rommel and Jawaid Rasul. *Residential mobility and breast cancer in Marin County, California.*

Day 2 : Thursday, 11th August 2011 Burnaby Campus, IRMACS Theatre, Applied Science Building Level 3 (ASB 10900)	
TIME	**EVENT**
8:00 - 8:30	**Registration : IRMACS Centre** (ASB 10905)
8:00 - 8:30	**Breakfast** (IRMACS Atrium) Sponsored by the Office of the Dean, Faculty of Environment, SFU
8:30 - 10:00	**Session 2-1 : GIS** Chair: Seth Spielman
	Jung-Rack Kim, Shih-Yuan Lin, Eunmi Chang, Inhee Lee and Hewon Yun. *Land cover analysis with high-resolution multispectral satellite imagery and its application for the CO2 flux estimation.*
	Anthony Smith and Brian Klinkenberg. *Mapping the population ecumene of British Columbia: A multilevel binary dasymetric GIS methodology.*
	Syed Amer Mahmood, Saima Siddiqui and Richard Gloaguen. *Active tectonics from hypsometric integral analysis using GIS based local indicators of spatial autocorrelation in Afghanistan-Pakistan.*
	Guangwei Huang. *Linking urban road network to flood disaster mitigation.*
10:00 - 10:30	**Coffee break**
10:30 - 12:00	**Session 2-2 : Web-GIS Applications** Chair: Bert Veennedaal
Video-conference presentation 2	Milan Kilibarda and Branislav Bajat. *R software package Plot-Google-Maps for the web-mapping of thematic data.*
Video-conference presentation 3	Ming-Hsiang Tsou. *Visualizing and analyzing the spread of radical ideas on the World Wide Web.*
Video-conference presentation 4	Jonas Eberle, Christian Strobl and Christiane Schmullius. *Web-based geoprocessing and workflow creation to generate and provide remote sensing products.*

	Songnian Li. *Updating road network using GPS data collected from smart phones*
	Mohammed Rizwan Khan, Vivek Chaure and N. L. Sarda. *A framework for web-based GIS applications.*
12:00 - 13:30	**Lunch** (IRMACS Atrium) Courtesy of the ICA-ISPRS Workshops
13:30 - 15:00	**Session 2-3 : Spatial Dynamics** Chair: Zhenjiang Shen
	Suzana Dragicevic, Terence Lai, Shivanand Balram and Margaret Schmidt. *Modeling the dynamics of physical processes as complex systems: A case of urban landslides.*
	Hédia Sammari and Mir Abolfazl Mostafavi. *Toward a cellular automata simulation of surface water flow based on a hierarchical voronoi lattice within GIS.*
	Diego Silva Ardila, Moira Zellner, Antonio Aguilera and Luis Fernandez. *Land market dynamics in Latin American urban peripheries.*
Video-conference Presentation 5	David Bennett, Wenwu Tang, Shuang Xu and Yu Zeng. *The influence of population dynamics on consensus building and land use policies.*
15:00 - 15:30	**Coffee break**
15:30 - 17:00	**Session 2-4 : GeoWeb Design and Modeling** Chair: Songnian Li
	Bert Veenendaal and Geoff West. *Transforming Location Intelligence through Geospatial Web-based Technologies.*
	Maria Antonia Brovelli, Luana Valentini and Giorgio Zamboni. *Multi-dimensional and multi-frame web visualization of historical maps.*
Video-conference presentation 6	Huang Wei, Sun Min and Li Songnian. *Augmented-reality GIS for interactions during emergency rescue.*
Video-conference presentation 7	Cheng Dayu and Chen Jun. *Context relationship-based dynamic composition of geospatial information service.*
18:00 - 21:00	**Workshop Dinner** **The Highland Pub, SFU, Burnaby**

Day 3 : Friday, 12th August 2011 **Burnaby Campus, IRMACS Theatre, Applied Science Building Level 3 (ASB 10900)**	
TIME	**EVENT**
8:00 - 8:30	**Registration : IRMACS Centre (ASB 10905)**
8:00 - 8:30	**Breakfast** (IRMACS Atrium) Courtesy of the ICA-ISPRS Workshops
8:30 - 10:00	**Session 3-1 : Spatial Topology** Chair: Stewart Fotheringham
Video-conference presentation 8	Xintao Liu and Bin Jiang. *Defining and generating axial lines from street center lines for better understanding of urban morphologies.*

	Carson J. Q. Farmer and A. Stewart Fotheringham. *Communities in commuting networks.*
	Zhenjiang Shen, Mitsuhuko Kawakami and Kentichi Sugihara. *Visualizing design guidelines for historic landscape restoration using a virtual globe.*
	Bin Jiang. *Exploring the scaling of geographic space using volunteered geographic information.*
10:00 - 10:30	**Coffee break**
10:30 - 11:30	**Plenary Talk 2 : Keynote Speaker** Dr. Paul Torrens *Moving Agents in Geosimulation*
11:30-11:45	**Closing remarks**