



September 21-23 | **2016**
Québec, Canada

The Second International Symposium on Cellular Automata Modeling for Urban and Spatial Systems (CAMUSS 2016) will be held in Quebec City, Canada from September 21st to September 23rd, 2016. CAMUSS 2016 is organized by the [Centre for Research in Geomatics](#) (CRG) and the [Convergence Network](#), Université Laval, Canada, with the support of the [Centre for Urban Policy Studies](#) of the University of Manchester, UK.

CAMUSS 2016 will be a privileged forum of discussion about cellular automata (CA) and other geosimulation techniques, and their integration with GIS Sciences, Geography and Urban Studies, through the presentation of the advances in the state-of-the-art on these topics.

CALL FOR PAPERS

After a first edition in 2012, which successfully gathered a committed community of researchers in the field of cellular automata (CA), CAMUSS 2016 aims to consolidate the network that was initiated in 2012 as a privileged forum of discussion about CA and its integration with GIS Sciences, Geography and Urban Studies through the presentation of the advances in the state-of-the-art on CA. In this edition of the event, dedicated parallel sessions will also be organized focusing not only on CA but also on other geosimulation techniques such as agent-based simulation, artificial neural networks and discrete choice theory, among others.

The CAMUSS 2016 symposium consists of two refereed paper tracks: Full Papers and Extended Abstracts. Authors are invited to submit original research related to cellular automata (CA) and other geosimulation techniques (see below for detailed topics).

Please refer to the [CAMUSS website](#) for examples of relevant publications about cellular automata modeling in urban and spatial contexts.

Organization

Chair of CAMUSS 2016 Organizing Committee

Mir Abolfazl Mostafavi, Centre for Research in Geomatics, Université Laval, Canada

Co-Chair of CAMUSS 2016 Organizing Committee

Nuno Norte Pinto, University of Manchester, UK

Local Organizing Committee

Mir Abolfazl Mostafavi, Université Laval, Canada

Eveline Bernier, Centre for Research in Geomatics, Université Laval, Canada

Bernard Moulin, Université Laval, Canada

Sonia Rivest, Convergence Network, Université Laval, Canada

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Danielle Marceau, University of Calgary, Canada

Mir Abolfazl Mostafavi, Université Laval, Canada

Nuno Norte Pinto, University of Manchester, UK

Roger White, Memorial University Newfoundland, Canada

Symposium Topics

CAMUSS 2016 invites authors to submit original research on topics including (but not limited to):

Fundamental Research in Cellular Automata

- Theoretical CA models
- Cells in CA
- Scale in CA
- Neighborhood in CA
- Transition rules in CA
- Calibration of CA models
- CA and complexity
- Integration of CA and GIS
- Integration of CA and remote sensing
- Integration of CA and agent-based modeling
- Integration of CA and supported vector machine algorithms

Other geosimulation techniques

- Agent-based simulation
- Artificial neural networks
- Discrete choice theory
- Advances in geosimulation modeling

Applications

CA/geosimulation:

- for land use/land cover modeling
- for transport modeling
- for demography modeling
- for health and epidemiology modeling
- for hydrology modeling
- for fire modeling
- and social sciences
- of urban processes
- in defence and security
- of natural disasters
- and energy networks
- in environment

Other Applications of CA and geosimulation for modeling spatial systems

Important Dates

- Full papers due **March 4th, 2016**

- Full paper notification **April 4th, 2016**
- Full paper camera-ready due **April 18th, 2016**

- Extended abstracts due **May 23rd, 2016**
- Extended abstracts notification **June 13th, 2016**
- Extended abstracts camera-ready due **June 25th, 2016**

Full Paper Track

Full papers must be submitted in PDF format through the [Easychair website](#). Full papers will be thoroughly reviewed by three members of the program committee. High-quality submissions will be accepted for presentation at the symposium and for publication in the proceedings (in a book of the [Advances in Geographic Information Science Springer Book Series](#)). Manuscripts must describe original work that has neither been published before, nor is currently under review elsewhere. Papers must be written in English according to Springer general [Manuscript guidelines](#) and should not exceed 5,000 words.

- Full papers due **March 4th, 2016**
- Full paper notification **April 4th, 2016**
- Full paper camera-ready due **April 18th, 2016**

Extended Abstract Track

Extended abstracts must be submitted in PDF format through the [Easychair website](#). Extended abstracts describing work in progress will be reviewed by three members of the program committee. Accepted extended abstracts will be selected for oral or poster presentation and will be published in electronic format as proceedings of the symposium. Extended abstracts must be written in English according to the symposium [guidelines](#) and should not exceed 1,500 words.

- Extended abstracts due **May 23rd, 2016**
- Extended abstracts notification **June 13th, 2016**
- Extended abstracts camera-ready due **June 25th, 2016**