

## CALL FOR PAPERS ACA 2014

ACA 2014

Third International Workshop on  
Asynchronous Cellular Automata and Asynchronous Discrete Models

at 11th International Conference on Cellular Automata for Research and Industry (ACRI 2014)

<http://acri2014.agh.edu.pl/doku.php?id=aca>

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Krakow, Poland, September 22-25, 2014

### ORGANIZER

AGH University of Science and Technology in Krakow

### AIMS and SCOPE

Cellular Automata are a well-known formal tool for modeling complex systems; they are found in many scientific fields and industrial applications. Synchronous updating is one of the main features of Cellular Automata. Indeed, in the most common Cellular Automata framework, all cells are updated simultaneously at each discrete time step.

Recent trends consider the modeling of asynchronous systems based on local interactions. The aim of this workshop is to bring together researchers dealing with the theme of the asynchrony inside Cellular Automata and other Discrete Models such as discrete Multi-Agents Systems, Boolean Networks, and so on, in order to foster their interaction and to provide a forum for presenting new ideas and works in progress on the subject.

Topics include, but are not limited to the following aspects of Asynchronous Cellular Automata and Asynchronous Discrete Models (such as Multi-Agents Systems, Boolean Networks and so on):

- dynamics
- complexity issues
- computational issues
- emergent properties
- models of parallelism and distributed systems
- models of phenomena from biology, chemistry, physics, engineering and other fields

Contributions of both theoretical and applicative interest are welcome.

### PROGRAM COMMITTEE

Alberto Dennunzio (Universita' degli Studi di Milano - Bicocca, Italy) co-chair

Nazim Fatès (Inria Nancy, France)

Enrico Formenti (Nice Sophia Antipolis University, France) co-chair

Eric Goles (Universidad Adolfo Ibáñez, Chile)

Jia Lee (Chongqing University, China)

Ferdinand Peper (National Institute of Information and Communications Technology, Japan)

Adrien Richard (CNRS and Nice Sophia Antipolis University, France)

Hiroshi Umeo (University of Osaka Electro-Communication - Japan)

Thomas Worsch (University of Karlsruhe, Germany) co-chair

**\*SUBMISSIONS AND PUBLICATION\***

Authors are invited to submit papers according to two contribution categories -- full and short papers -- meant to provide a differentiation of the papers in terms of their length, depth and/or maturity. Papers must comply with the Springer-Verlag format and the maximum length of 5 and 10 pages for short and full contributions, respectively.

Details on the electronic submission procedure will be provided through the website <http://acri2014.agh.edu.pl> <<http://acri2014.agh.edu.pl/>>

Accepted papers will be published by Springer-Verlag in the Lecture Notes in Computer Science (LNCS) series.

**\*SPECIAL ISSUE\***

Selected papers will be considered for publication in a Special issue of the international journal Natural Computing. They will contain refereed extended/improved versions of selected papers presented at ACA workshop.

**IMPORTANT DATES:**

Paper submission: April 15, 2014

Notification of paper acceptance or rejection: May 14, 2014

Final version of the paper for the proceedings: June 8, 2014