

Call for Papers

NCMA 2022 – 12th International Workshop on Non-Classical Models of Automata and Applications

August 26 - 27, 2022, Debrecen, Hungary

<https://konferencia.unideb.hu/en/ncma-2022/>

Invited speakers:

Gyula Klima (New York, USA)
Florin Manea (Göttingen, Germany)

Program committee:

Péter Battyányi (Debrecen, Hungary)
Henning Bordihn (Potsdam, Germany) - *co-chair*
Erzsébet Csuha-Várjú (Budapest, Hungary)
Géza Horváth (Debrecen, Hungary) - *co-chair*
Szabolcs Iván (Szeged, Hungary)
Peter Leupold (Bremen, Germany)
Andreas Malcher (Giessen, Germany)
Carlo Mereghetti (Milan, Italy)
Ludovic Mignot (Rouen, France)
František Mráz (Prague, Czech Republic)
Benedek Nagy (Famagusta, North Cyprus)
Rogério Reis (Porto, Portugal)
Özlem Salehi Köken (Polish Academy of Sciences)
Kai Salomaa (Kingston, Canada)
Georgios Sirakoulis (Xanthi, Greece)
György Vaszil (Debrecen, Hungary) - *co-chair*
Petra Wolf (Trier, Germany)
Abuzer Yakaryilmaz (Riga, Latvia)

Steering committee:

Henning Bordihn (Potsdam, Germany, chair)
Rudolf Freund (Vienna, Austria)
Markus Holzer (Giessen, Germany)
Martin Kutrib (Giessen, Germany)
Nelma Moreira (Porto, Portugal)
František Mráz (Prague, Czech Republic)
Giovanni Pighizzini (Milan, Italy)

Important dates:

Submission (full papers, extended): June 13, 2022
Notification (full papers, extended): July 4, 2022
Submission (short papers, extended): July 10, 2022
Notification (short papers, extended): July 17, 2022
Final version: July 24, 2022

Please contact:

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vaszil.gyorgy@inf.unideb.hu (György Vaszil)

Url:

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The workshop is organized by the Faculty of Informatics of the University of Debrecen directly before DCFS 2022, the 24th International Conference on Descriptive Complexity of Formal Systems (Debrecen, August 29 – 31) and MCU 2022, the 9th Conference on Machines, Computations and Universality (Debrecen, August 31 – September 2).

The conference will take place in a hybrid format: the possibility of both, in-person and online participation will be provided.

Aims and scope

The aim of the workshop is to bring together researchers working on different aspects of different variants of classical and non-classical automata models in order to exchange and develop novel ideas. A deeper and interdisciplinary coverage of this particular area may gain new insights and substantial progress.

Topics include, but are not limited to:

- Bio-inspired Automata
- Cellular Automata
- Restarting Automata, Forgetting Automata
- Automata with Additional Resources
- Automata Networks, Cooperation, and Communication
- Quantum Automata
- Automata in the framework of membrane computing
- Other Formal Models Inspired by Linguistics, Bio-Computing, Text Processing, Document Engineering, Self-Assembling

In all these settings: Applications, Expressive Capability, Universality, Self-Reproduction, Descriptive Complexity, Decision Problems and their Complexity, Algebraic Properties

Submissions

Authors are invited to submit full papers or short papers (short papers up to 8 pages) in electronic form. Full papers will go through a usual review process, simultaneous submissions to other conferences or workshops with published proceedings are not allowed. Short papers will also be reviewed by PC members, but simultaneous submissions of extended versions to other conferences or workshops with published proceedings are allowed.

Information about the submission procedure is available on the workshop web page.

Proceedings, special issue

The proceedings will be published in the series *Electronic Proceedings in Theoretical Computer Science* (EPTCS). In addition, a special issue with revised and extended versions of selected papers of the workshop will appear in the journal *RAIRO-Theoretical Informatics and Applications*.