

## | About the Conference

The 31st International Workshop on Cellular Automata and Discrete Complex Systems (AUTOMATA) will take place between June 30 and July 2, 2025 at the Université de Lille in France. It will be followed by the Workshop on Automata Networks (WAN) that will take place between July 2 and July 4, 2025.

These Automata workshops aim to establish and maintain a permanent, international, multidisciplinary forum for the collaboration of researchers in the field of Cellular Automata (CA) and Discrete Complex Systems (DCS) while providing a platform for presenting and discussing new ideas and results.

These workshops support the development of theory and applications of CA and DCS (e.g. parallel computing, physics, biology, social sciences, and others) to identify and study, within an interdisciplinary and multidisciplinary context, the important fundamental aspects, concepts, notions and problems concerning CA and DCS.

### Important Dates

 CONFERENCE DATE  
**July 2, 2025**

The AUTOMATA series is the official annual event of IFIP WG 1.5, the Working Group 5 (on Cellular Automata and Discrete Complex Systems), of the Technical Committee 1 (on Foundations of Computer Science), of the International Federation for Information Processing (IFIP).

## Scope

Papers presenting original and unpublished research on all fundamental aspects of cellular automata (CA), and related discrete complex systems (DCS), such as automata networks and sandpile models, are sought.

Topics of interest include (but are not limited to):

Dynamic, topological, ergodic, algebraic and combinatorial aspects  
Algorithmic, computability and complexity issues  
Information-theoretic aspects  
Emergent properties  
Formal languages  
Symbolic dynamics and connections to continuous systems  
Tilings, rewriting and substitution systems  
Computability theory  
Models of parallelism and distributed systems  
Asynchronous versus synchronous models  
CA in machine and deep learning

Important Dates

Full Papers

Submission deadline: 1 April  
Notification to authors: 1 May  
Camera-ready papers: 15 May

#### Exploratory Papers (and extended abstracts)

Submission deadline: 15 May  
Notification to authors: 25 May  
Camera-ready papers: 30 May

#### Submission Guidelines

There are three categories of submission: full papers, exploratory papers and extended abstracts. Full papers are meant to report more complete and denser research, while exploratory papers allows quick reporting of recent discoveries, work-in-progress or partial results. Submissions in the full paper category are refereed and selected by the program committee. Exploratory papers go through a lighter evaluation process. All accepted papers must be presented at the conference.

Submissions should contain original research that has not previously been published. Concurrent submissions to other conferences/journals are not allowed. Supplementary material that exceeds the below mentioned page limits may be included as an appendix and will be

considered at the committee's discretion (note that appendices will not be published in the proceedings).

Extended abstracts allows the presentation of topics that are intended to be interesting for the CA and DCS community. They may contain content that has already been published or new ideas that can be presented but are not fully matured.

Authors are invited to submit papers of no more than 16 pages for full papers, 8 pages for exploratory papers and 4 pages for extended abstracts. Submission must be formatted in LaTeX using the LNCS format and submitted in Portable Document Format (PDF).

All papers are to be submitted via the EasyChair system.

Proceedings and Journal Special Issue

Accepted full papers will appear in the proceedings published by Springer in the LNCS Series.

Exploratory papers and extended abstracts will not be included in the LNCS proceedings, but will be published as local proceedings and uploaded on an open access repository.

A special issue of an international journal will be proposed for the publication of extended versions of some selected papers.

## TOPICS OF INTEREST

2 topics

Research papers are invited in, but not limited to, the following areas:

Computer Science  
& Software  
Engineering

Uncategorized