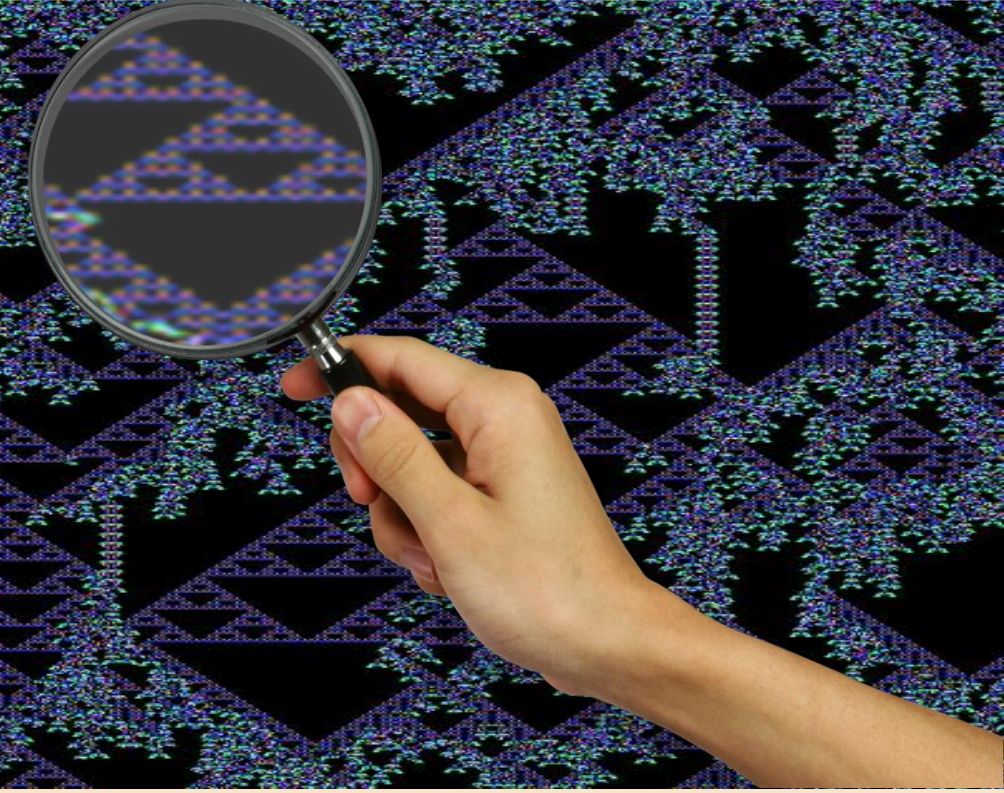


# AUTOMATA 2022

The 28th International Workshop on Cellular Automata and Discrete Complex Systems

October 10-12, 2022 at Indian Institute of Technology Kharagpur, India



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## Contact

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## Overview

The 28th International Workshop on Cellular Automata and Discrete Complex Systems will take place on October 10-12, 2022 at Indian Institute of Technology Kharagpur, India. AUTOMATA 2022 is the twenty-eighth workshop in a series of events established in 1995.

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 (not exhaustive)

- ❖ Dynamic, topological, ergodic and algebraic aspects of Cellular Automata and Discrete Dynamical Systems
- ❖ Algorithmic complexity, information theory and other measures
- ❖ Emergent properties of dynamical systems
- ❖ Formal languages, grammars and automata
- ❖ Algorithmic Information Dynamics
- ❖ Symbolic dynamics and connections to continuous systems
- ❖ Tilings, rewriting and substitution systems
- ❖ Computability theory
- ❖ Models of parallelism and distributed systems
- ❖ Synchronous versus asynchronous models
- ❖ Applications of cellular automata and discrete complex systems
- ❖ Cellular automata in machine & deep learning
- ❖ Cellular Automata in image processing and computer vision

## Paper Submission

Full papers :- Not more than 12 pages

Exploratory papers :- Not more than 8 pages

Paper submission is via [EasyChair](#)

## Publication

Full papers :- Lecture Notes in Computer Science (LNCS) proceedings, Springer

Exploratory papers :- Local Proceedings

## Important Dates

- ❖ Submission deadline **full papers** : ~~June 15, 2022~~ **June 30, 2022**
- ❖ Notification of acceptance of full papers: **July 30, 2022**
- ❖ Final version of full papers: **August 10, 2022**
- ❖ Submission deadline **exploratory papers**: ~~July 1, 2022~~ **August 1, 2022**
- ❖ Notification of acceptance of exploratory papers: **August 10, 2022**
- ❖ Final versions of exploratory papers: **August 15, 2022**
- ❖ **Registration: July 1, 2022**
- ❖ **Conference: October 10-12, 2022**

**Conference Website** <https://cse.iitkgp.ac.in/workshop/Automata22/>

