Editorial

This special issue contains six papers which are the extended versions of six selected papers that were presented in the First Asian Symposium on Cellular Automata Technology, 2022 (ASCAT 2022). The symposium was officially organized by the departments of Information Technology, and Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur (IIEST, Shibpur), India during March 3-5, 2022 in online mode. Cellular Automata India (https://www.cellularautomata.in/), an open research group which was created during the pandemic period by a group of Indian researchers, took a leading role in organizing the event.

There are a number of international conferences and workshops that consider cellular automata as the primary theme and deal with various aspects of cellular automata, their theoretical, modeling and application development issues. Since the late 1980s, cellular automata have been used to devise solutions for technological problems, particularly in the domain of Very Large Scale Integration (VLSI) Design and Test, Pattern Recognition and Classification, Security and Image Processing. The aim of this symposium was to focus on the issue of technology development by cellular automata. In our view, ASCAT was the first event of this kind. Since technology cannot be matured without a solid theoretical base, this symposium invited theoreticians and engineers to exchange their views and ideas.

In this symposium, fourteen (14) papers were selected for presentation. We invited all the authors of the fourteen papers to submit extended versions of their works for inclusion in the planned special issue. The submitted extended versions were reviewed again and finally six papers have been chosen for this special issue. We thank all the authors of this issue for their efforts to beautifully extend their research. We are very greatly thankful to the reviewers who put their efforts to review the papers and to select these six

papers. We hope that these papers will be a good contribution to the field of cellular automata.

We extend our gratitude to the organizing committee and program committee of ASCAT 2022, without whose efforts this issue could not be possible. Finally we thank the Journal of Cellular Automata which agreed to publish this special issue.

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