1. Record Nr.	UNINA9910349435803321
Titolo	Cellular Automata and Discrete Complex Systems : 24th IFIP WG 1.5 International Workshop, AUTOMATA 2018, Ghent, Belgium, June 20–22, 2018, Proceedings / / edited by Jan M. Baetens, Martin Kutrib
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-92675-6
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (IX, 143 p. 38 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 10875
Disciplina	511.3
Soggetti	Computer science Artificial intelligence Machine theory Computer science—Mathematics Numerical analysis Theory of Computation Artificial Intelligence Formal Languages and Automata Theory Mathematical Applications in Computer Science Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Gauge-Invariant Reversible Cellular Automaton -- Counter Machines and Distributed Automata -- Boolean Networks: Beyond Generalized Asynchronicity -- Evaluating the Quality of Local Structure Approximation Using Elementary Rule 14 -- On Dynamical Complexity of Surjective Ultimately Right-Expansive Cellular Automata -- Sequentializing Cellular Automata -- Glider Automorphisms on Some Shifts of Finite Type and a Finitary Ryan's Theorem -- Hierarchies and Undecidability Results for Iterative Arrays with Sparse Communication -- Construction of Some Nonautomatic Sequences by Cellular Automata -- Any Shape can Ultimately Cross Information on Two-Dimensional Abelian Sandpile Models.

Sommario/riassunto   This volume constitutes the thoroughly refereed proceedings of the
24th IFIP WG 1.5 International Workshop on Cellular Automata and
Discrete Complex Systems, AUTOMATA 2018, held in Ghent, Belgium,
in June 2018. The 10 regular papers presented in this book were
carefully reviewed and selected from a total of 16 submissions. The
papers highlight the major advances in the field and the development
of new tools, support the development of theory and applications of CA
and DCS and identify and study within an inter- and multidisciplinary
context, the important fundamental aspects, concepts, notions and
problems concerning CA and DCS. .