

NETWORKS AND TELECOMMUNICATIONS SERIES



Formal Languages, Automata and Numeration Systems 2

*Applications to Recognizability
and Decidability*

Michel Rigo

ISTE

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Formal Languages Automata And Numeration Systems

Volume 2 Iste

Shigeki Akiyama, Pierre Arnoux



Formal Languages Automata And Numeration Systems Volume 2 Iste:

Formal Languages, Automata and Numeration Systems 2 Michel Rigo, 2014-11-17 The interplay between words computability algebra and arithmetic has now proved its relevance and fruitfulness Indeed the cross fertilization between formal logic and finite automata such as that initiated by J R B chi or between combinatorics on words and number theory has paved the way to recent dramatic developments for example the transcendence results for the real numbers having a simple binary expansion by B Adamczewski and Y Bugeaud This book is at the heart of this interplay through a unified exposition Objects are considered with a perspective that comes both from theoretical computer science and mathematics Theoretical computer science offers here topics such as decision problems and recognizability issues whereas mathematics offers concepts such as discrete dynamical systems The main goal is to give a quick access for students and researchers in mathematics or computer science to actual research topics at the intersection between automata and formal language theory number theory and combinatorics on words The second of two volumes on this subject this book covers regular languages numeration systems formal methods applied to decidability issues about infinite words and sets of numbers

Formal Languages, Automata and Numeration Systems 1 Michel Rigo, 2014-11-17 Formal Languages Automaton and Numeration Systems presents readers with a review of research related to formal language theory combinatorics on words or numeration systems such as Words DLT Developments in Language Theory ICALP MFCS Mathematical Foundation of Computer Science Mons Theoretical Computer Science Days Numeration CANT Combinatorics Automata and Number Theory Combinatorics on words deals with problems that can be stated in a non commutative monoid such as subword complexity of finite or infinite words construction and properties of infinite words unavoidable regularities or patterns When considering some numeration systems any integer can be represented as a finite word over an alphabet of digits This simple observation leads to the study of the relationship between the arithmetical properties of the integers and the syntactical properties of the corresponding representations One of the most profound results in this direction is given by the celebrated theorem by Cobham Surprisingly a recent extension of this result to complex numbers led to the famous Four Exponentials Conjecture This is just one example of the fruitful relationship between formal language theory including the theory of automata and number theory

Substitution and Tiling Dynamics: Introduction to Self-inducing Structures Shigeki Akiyama, Pierre Arnoux, 2020-12-05 This book presents a panorama of recent developments in the theory of tilings and related dynamical systems It contains an expanded version of courses given in 2017 at the research school associated with the Jean Morlet chair program Tilings have been designed used and studied for centuries in various contexts This field grew significantly after the discovery of aperiodic self similar tilings in the 60s linked to the proof of the undecidability of the Domino problem and was driven further by Dan Shechtman's discovery of quasicrystals in 1984 Tiling problems establish a bridge between the mutually influential fields of geometry dynamical systems aperiodic order computer science number

theory algebra and logic The main properties of tiling dynamical systems are covered with expositions on recent results in self similarity and its generalizations fusions rules and S adic systems algebraic developments connected to physics games and undecidability questions and the spectrum of substitution tilings *Sequences, Groups, and Number Theory* Valérie Berthé, Michel Rigo, 2018-04-09 This collaborative book presents recent trends on the study of sequences including combinatorics on words and symbolic dynamics and new interdisciplinary links to group theory and number theory Other chapters branch out from those areas into subfields of theoretical computer science such as complexity theory and theory of automata The book is built around four general themes number theory and sequences word combinatorics normal numbers and group theory Those topics are rounded out by investigations into automatic and regular sequences tilings and theory of computation discrete dynamical systems ergodic theory numeration systems automaton semigroups and amenable groups This volume is intended for use by graduate students or research mathematicians as well as computer scientists who are working in automata theory and formal language theory With its organization around unified themes it would also be appropriate as a supplemental text for graduate level courses *Combinatorics on Words* Guilhem Gamard, Julien Leroy, 2025-07-31 This book constitutes the refereed proceedings of the 15th International Conference on Combinatorics on Words WORDS 2025 held in Nancy France during June 30 July 4 2025 The 20 papers included in these proceedings were carefully reviewed and selected from 31 submissions They focus on mathematical theory of words In particular the combinatorial algebraic and algorithmic aspects of words are emphasized *Advanced Graph Theory and Combinatorics* Michel Rigo, 2016-11-22 *Advanced Graph Theory* focuses on some of the main notions arising in graph theory with an emphasis from the very start of the book on the possible applications of the theory and the fruitful links existing with linear algebra The second part of the book covers basic material related to linear recurrence relations with application to counting and the asymptotic estimate of the rate of growth of a sequence satisfying a recurrence relation *Combinatorics, Words and Symbolic Dynamics* Valérie Berthé, Michel Rigo, 2016-02-26 Internationally recognised researchers look at developing trends in combinatorics with applications in the study of words and in symbolic dynamics They explain the important concepts providing a clear exposition of some recent results and emphasise the emerging connections between these different fields Topics include combinatorics on words pattern avoidance graph theory tilings and theory of computation multidimensional subshifts discrete dynamical systems ergodic theory numeration systems dynamical arithmetics automata theory and synchronised words analytic combinatorics continued fractions and probabilistic models Each topic is presented in a way that links it to the main themes but then they are also extended to repetitions in words similarity relations cellular automata friezes and Dynkin diagrams The book will appeal to graduate students research mathematicians and computer scientists working in combinatorics theory of computation number theory symbolic dynamics tilings and stringology It will also interest biologists using text algorithms *Combinatorics on Words* Anna Frid, Robert Mercas, 2023-05-30 This book

constitutes the refereed proceedings of the 14th International Conference on Combinatorics on Words WORDS 2023 held in Ume Sweden during June 12 16 2023 The 19 contributed papers presented in this book were carefully reviewed and selected from 28 submissions In addition the volume also contains 3 invited papers WORDS is the main conference series devoted to combinatorics on words This area is connected to several topics from computer science and mathematics including string algorithms automated proofs discrete dynamics number theory and of course classical combinatorics

Unimodularity in Randomly Generated Graphs Florian Sobieczky, 2018-11-20 This volume contains the proceedings of the AMS Special Session on Unimodularity in Randomly Generated Graphs held from October 8 9 2016 in Denver Colorado Unimodularity a term initially used in locally compact topological groups is one of the main examples in which the generalization from groups to graphs is successful The randomly generated graphs which include percolation graphs random Erdős-Rényi graphs and graphings of equivalence relations are much easier to describe if they result as random objects in the context of unimodularity with respect to either a vertex transient host graph or a probability measure This volume tries to give an impression of the various fields in which the notion currently finds strong development and application percolation theory point processes ergodic theory and dynamical systems

American Book Publishing Record ,2006

Unveiling the Magic of Words: A Report on "**Formal Languages Automata And Numeration Systems Volume 2 Iste**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Formal Languages Automata And Numeration Systems Volume 2 Iste**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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