

Manfred Droste  
Werner Kuich  
Heiko Vogler (Eds.)

# Handbook of Weighted Automata



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# Handbook Of Weighted Automata Monographs In Theoretical Computer Science An Eatcs Series

**Uli Fahrenberg, Peter Jipsen, Michael  
Winter**



## **Handbook Of Weighted Automata Monographs In Theoretical Computer Science An Eatcs Series:**

Handbook of Weighted Automata Manfred Droste, Werner Kuich, Heiko Vogler, 2009-09-18 The purpose of this Handbook is to highlight both theory and applications of weighted automata Weighted finite automata are classical nondeterministic finite automata in which the transitions carry weights These weights may model e g the cost involved when executing a transition the amount of resources or time needed for this or the probability or reliability of its successful execution The behavior of weighted finite automata can then be considered as the function suitably defined associating with each word the weight of its execution Clearly weights can also be added to classical automata with infinite state sets like pushdown automata this extension constitutes the general concept of weighted automata To illustrate the diversity of weighted automata let us consider the following scenarios Assume that a quantitative system is modeled by a classical automaton in which the transitions carry as weights the amount of resources needed for their execution Then the amount of resources needed for a path in this weighted automaton is obtained simply as the sum of the weights of its transitions Given a word we might be interested in the minimal amount of resources needed for its execution i e for the successful paths realizing the given word In this example we could also replace the resources by profit and then be interested in the maximal profit realized correspondingly by a given word

**Handbook of Weighted Automata** Manfred Droste, Werner Kuich, Heiko Vogler, 2009-10-12 The purpose of this Handbook is to highlight both theory and applications of weighted automata Weighted finite automata are classical nondeterministic finite automata in which the transitions carry weights These weights may model e g the cost involved when executing a transition the amount of resources or time needed for this or the probability or reliability of its successful execution The behavior of weighted finite automata can then be considered as the function suitably defined associating with each word the weight of its execution Clearly weights can also be added to classical automata with infinite state sets like pushdown automata this extension constitutes the general concept of weighted automata To illustrate the diversity of weighted automata let us consider the following scenarios Assume that a quantitative system is modeled by a classical automaton in which the transitions carry as weights the amount of resources needed for their execution Then the amount of resources needed for a path in this weighted automaton is obtained simply as the sum of the weights of its transitions Given a word we might be interested in the minimal amount of resources needed for its execution i e for the successful paths realizing the given word In this example we could also replace the resources by profit and then be interested in the maximal profit realized correspondingly by a given word

Cognitive Behavioural Systems Anna Esposito, Antonietta M. Esposito, Alessandro Vinciarelli, Rüdiger Hoffmann, Vincent Müller, 2012-11-19 This book constitutes refereed proceedings of the COST 2102 International Training School on Cognitive Behavioural Systems held in Dresden Germany in February 2011 The 39 revised full papers presented were carefully reviewed and selected from various submissions The volume presents new and original research results in the field of human machine interaction inspired by

cognitive behavioural human human interaction features The themes covered are on cognitive and computational social information processing emotional and social believable Human Computer Interaction HCI systems behavioural and contextual analysis of interaction embodiment perception linguistics semantics and sentiment analysis in dialogues and interactions algorithmic and computational issues for the automatic recognition and synthesis of emotional states

**Kleene-Schützenberger and Büchi Theorems for Weighted Timed Automata** Karin Quaas,2010 In 1994 Alur and Dill introduced timed automata as a simple mathematical model for modelling the behaviour of real time systems In this thesis we extend timed automata with weights More detailed we equip both the states and transitions of a timed automaton with weights taken from an appropriate mathematical structure The weight of a transition determines the weight for taking this transition and the weight of a state determines the weight for letting time elapse in this state Since the weight for staying in a state depends on time this model called weighted timed automata has many interesting applications for instance in operations research and scheduling We give characterizations for the behaviours of weighted timed automata in terms of rational expressions and logical formulas These formalisms are useful for the specification of real time systems with continuous resource consumption We further investigate the relation between the behaviours of weighted timed automata and timed automata Finally we present important decidability results for weighted timed automata

**On Fuzziness** Rudolf Seising,Enric Trillas,Claudio Moraga,Settimo Termini,2013-01-12 The notion of Fuzziness stands as one of the really new concepts that have recently enriched the world of Science Science grows not only through technical and formal advances on one side and useful applications on the other side but also as consequence of the introduction and assimilation of new concepts in its corpus These in turn produce new developments and applications And this is what Fuzziness one of the few new concepts arisen in the XX Century has been doing so far This book aims at paying homage to Professor Lotfi A Zadeh the father of fuzzy logic and also at giving credit to his exceptional work and personality In a way this is reflected in the variety of contributions collected in the book In some of them the authors chose to speak of personal meetings with Lotfi in others they discussed how certain papers of Zadeh were able to open for them a new research horizon Some contributions documented results obtained from the author s after taking inspiration from a particular idea of Zadeh thus implicitly acknowledging him Finally there are contributions of several third generation fuzzysists or softies who were firstly led into the world of Fuzziness by a disciple of Lotfi Zadeh who following his example took care of opening for them a new road in science Rudolf Seising is Adjoint Researcher at the European Centre for Soft Computing in Mieres Asturias Spain Enric Trillas and Claudio Moraga are Emeritus Researchers at the European Centre for Soft Computing Mieres Asturias Spain Settimo Termini is Professor of Theoretical Computer Science at the University of Palermo Italy and Affiliated Researcher at the European Centre for Soft Computing Mieres Asturias Spain

**Quantitative Logic and Soft Computing** Guojun Wang,Yongming Li,Bin Zhao,2012 The QL SC 2012 is a major symposium for scientists and practitioners all around the world

to present their latest researches results ideas developments and applications in such areas as quantitative logic many valued logic fuzzy logic quantification of software artificial intelligence fuzzy sets and systems and soft computing This invaluable book provides a broad introduction to the fuzzy reasoning and soft computing It is certain one should not go too far in approximation and optimization and a certain degree must be kept in mind This is the essential idea of quantitative logic and soft computing The explanations in the book are complete to provide the necessary background material needed to go further into the subject and explore the research literature It is suitable reading for graduate students It provides a platform for mutual exchanges from top experts and scholars around the world in this field *Quantitative Logic and Soft Computing* Yongming Li, 2012 The QL SC 2012 is a major symposium for scientists and practitioners all around the world to present their latest researches results ideas developments and applications in such areas as quantitative logic many valued logic fuzzy logic quantification of software artificial intelligence fuzzy sets and systems and soft computing This invaluable book provides a broad introduction to the fuzzy reasoning and soft computing It is certain one should not go too far in approximation and optimization and a certain degree must be kept in mind This is the essential idea of quantitative logic and soft computing The explanations in the book are complete to provide the necessary background material needed to go further into the subject and explore the research literature It is suitable reading for graduate students It provides a platform for mutual exchanges from top experts and scholars around the world in this field *Quantitative Evaluation of Systems and Formal Modeling and Analysis of Timed Systems* Jane Hillston, Sadegh Soudjani, Masaki Waga, 2024-08-28 This book constitutes the proceedings of the First International Joint Conference on Quantitative Evaluation of Systems and Formal Modeling and Analysis of Timed Systems QEST Formats 2024 which took place in Calgary AB Canada during September 2024 This year the 21th International Conference on Quantitative Evaluation of SysTems QEST 2024 and the 22nd International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2024 joint forces and took place as part of the CONFEST 2024 umbrella conference The 19 full papers presented in this book were carefully reviewed and selected from 33 submissions They deal with up to date topics in quantitative evaluation and verification of systems focusing on fundamental and practical aspects of systems with quantitative nature such as probability timing and cost and modeling design and analysis of computational systems *Weighted Automata, Formal Power Series and Weighted Logic* Laura Wirth, 2022-10-13 The main objective of this work is to represent the behaviors of weighted automata by expressively equivalent formalisms rational operations on formal power series linear representations by means of matrices and weighted monadic second order logic First we exhibit the classical results of Kleene B chi Elgot and Trakhtenbrot which concentrate on the expressive power of finite automata We further derive a generalization of the B chi Elgot Trakhtenbrot Theorem addressing formulas whereas the original statement concerns only sentences Then we use the language theoretic methods as starting point for our investigations regarding power series We establish Sch tzenberger s extension of Kleene s Theorem referred to as Kleene

Schützenberger Theorem Moreover we introduce a weighted version of monadic second order logic which is due to Droste and Gastin By means of this weighted logic we derive an extension of the Buchi Elgot Trakhtenbrot Theorem Thus we point out relations among the different specification approaches for formal power series Further we relate the notions and results concerning power series to their counterparts in Language Theory Overall our investigations shed light on the interplay between languages formal power series automata and monadic second order logic

*Developments in Language Theory* Srečko Brlek, Christophe Reutenauer, 2016-07-20 This book constitutes the proceedings of the 20th International Conference on Developments in Language Theory DLT 2016 held in Montreal QC Canada in July 2016 The 32 full papers and 4 abstracts of invited papers presented were carefully reviewed and selected from 48 submissions This volume presents current developments in formal languages and automata especially from the following topics and areas combinatorial and algebraic properties of words and languages grammars acceptors and transducers for strings trees graphs arrays algebraic theories for automata and languages codes efficient text algorithms symbolic dynamics decision problems relationships to complexity theory and logic picture description and analysis polyominoes and bidimensional patterns cryptography concurrency cellular automata bio inspired computing quantum computing

*Formal Techniques for Distributed Systems* Roberto Bruni, Juergen Dingel, 2011-06-11 This book constitutes the refereed proceedings of the 13th IFIP WG 6.1 International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2011 and the 31st IFIP WG 6.1 Formal Techniques for Networked and Distributed Systems FORTE 2011 held in Reykjavik Island in June 2011 as one of the DisCoTec 2011 events The 21 revised full papers presented together with one invited talk were carefully reviewed and selected from 65 submissions The topics covered are formal verification formal modeling and specification run time monitoring and testing to address challenges in many different application areas including dynamic and ad hoc networks mobile and adaptive computation reactive and timed systems business processes and distributed and concurrent systems and algorithms

**Relational and Algebraic Methods in Computer Science** Uli Fahrenberg, Peter Jipsen, Michael Winter, 2020-04-01 This book constitutes the proceedings of the 18th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2020 which was due to be held in Palaiseau France in April 2020 The conference was cancelled due to the COVID 19 pandemic The 20 full papers presented together with 3 invited abstracts were carefully selected from 29 submissions Topics covered range from mathematical foundations to applications as conceptual and methodological tools in computer science and beyond

**Implementation and Application of Automata** Sebastian Maneth, 2021-06-22 This book constitutes the proceedings of the 25th International Conference on Implementation and Application of Automata CIAA 2021 held in July 2021 Due to Covid 19 pandemic the conference was held virtually The 13 regular papers presented in this book were carefully reviewed and selected from 20 submissions The topics of the papers cover various fields in the application implementation and theory of automata and related structures

**Finite-state Methods and Natural Language**

**Processing** Jakub Piskorski,2009 Contains papers that cover a range of Natural Language Processing NLP applications including machine learning and translation logic computational phonology morphology and semantics data mining information extraction and disambiguation as well as programming optimization and compression of finite state networks

**Descriptive Complexity of Formal Systems** Galina Jirásková,Giovanni Pighizzini,2020-11-07 This book constitutes the proceedings of the 22nd International Conference on Descriptive Complexity of Formal Systems DCFS 2020 which was supposed to take place in Vienna Austria in August 2020 but the conference was canceled due to the COVID 19 crisis The 19 full papers presented in this volume were carefully reviewed and selected from 31 submissions They deal with all aspects of descriptive complexity and costs of description of objects in various computational models such as Turing machines pushdown automata finite automata grammars and others

*Algebraic Informatics* Andreas Maletti,2015-09-09 This book constitutes the refereed proceedings of the 6th International Conference on Algebraic Informatics CAI 2015 held in Stuttgart Germany in September 2015 The 15 revised full papers presented were carefully reviewed and selected from 25 submissions The papers cover topics such as data models and coding theory fundamental aspects of cryptography and security algebraic and stochastic models of computing logic and program modelling

**Algebraic Foundations in Computer Science** Werner Kuich,George Rahonis,2011-10-13 This collection of 15 papers honors the career of Symeon Bozapalidis The focus is on his teaching subjects algebra linear algebra mathematical logic number theory automata theory tree languages and series algebraic semantics and fuzzy languages

**Implementation and Application of Automata** Stavros Konstantinidis,2013-07-11 This book constitutes the thoroughly refereed papers of the 18th International Conference on Implementation and Application of Automata CIAA 2013 held in Halifax NS Canada in July 2013 The 25 revised full papers presented together with 3 invited papers and 7 short papers were carefully selected from 43 submissions The papers cover various topics such as complexity of automata compressed automata counter automata dictionary matching edit distance homing sequences implementation minimization of automata model checking parsing of regular expressions partial word automata picture languages pushdown automata queue automata reachability analysis for software verification restarting automata transducers tree automata weighted automata XML streams

**Fuzzy Semirings with Applications to Automata Theory** Javed Ahsan,John N. Mordeson,Muhammad Shabir,2012-03-05 The purpose of this book is to present an up to date account of fuzzy ideals of a semiring The book concentrates on theoretical aspects and consists of eleven chapters including three invited chapters Among the invited chapters two are devoted to applications of Semirings to automata theory and one deals with some generalizations of Semirings This volume may serve as a useful hand book for graduate students and researchers in the areas of Mathematics and Theoretical Computer Science

*Mathematical Foundations of Computer Science 2012* Branislav Rován,Vladimiro Sassone,Peter Widmayer,2012-08-01 This volume constitutes the refereed proceedings of the 37th International Symposium on Mathematical Foundations of Computer Science MFCS 2012 held in

Bratislava Slovakia in August 2012 The 63 revised full papers presented together with 8 invited talks were carefully reviewed and selected from 162 submissions Topics covered include algorithmic game theory algorithmic learning theory algorithms and data structures automata formal languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory databases and knowledge based systems foundations of computing logic in computer science models of computation semantics and verification of programs and theoretical issues in artificial intelligence



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