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Implementation and Application of Automata

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Application of Automata , Implementation and Application of Automata Oscar H. Ibarra, Zhe Dang, 2003-08-02

Automata theory is the foundation of computer science Its applications have spread to almost all areas of computer science and many other disciplines In addition there is a growing number of software systems designed to manipulate automata regular expressions grammars and related structures This volume contains 24 regular papers from the 8th International Conference on Implementation and Application of Automata CIAA 2003 held in Santa Barbara CA USA in July 2003 covering various topics in the theory implementation and application of automata and related structures It also includes the abstracts of two invited lectures as well as the abstracts of the poster papers displayed during the conference *Implementation and Application of Automata* Sheng Yu, Andrei Paun, 2003-06-29 The Fifth International Conference on Implementation and Application of Automata CIAA 2000 was held at the University of Western Ontario in London Ontario Canada on July 24 25 2000 This conference series was formerly called the International Workshop on Implementing Automata WIA This volume of the Lecture Notes in Computer Science series contains all the papers that were presented at CIAA 2000 and also the abstracts of the poster papers that were displayed during the conference The conference addressed issues in automata application and implementation The topics of the papers presented at this conference ranged from automata applications in software engineering natural language and speech recognition and image processing to new representations and algorithms for efficient implementation of automata and related structures Automata theory is one of the oldest areas in computer science Research in automata theory has always been motivated by its applications since its early stages of development In the 1960s and 1970s automata research was motivated heavily by problems arising from compiler construction circuit design string matching etc In recent years many new applications have been found in various areas of computer science as well as in other disciplines Examples of the new applications include statecharts in object oriented modeling finite transducers in natural language processing and nondeterministic finite state models in communication protocols Many of the new applications do not and cannot simply apply the existing models and algorithms in automata theory to their problems Implementation and Application of Automata , 2015 **Implementation and Application of Automata** Yo-Sub Han, Kai Salomaa, 2016-07-05

This book constitutes the refereed proceedings of the 21st International Conference on Implementation and Application of Automata CIAA 2016 held in Seoul South Korea in July 2016 The 26 revised full papers presented were carefully reviewed

and selected from 49 submissions. The papers cover a wide range of topics including characterizations of automata, computing distances between strings and languages, implementations of automata, and experiments enhanced regular expressions and complexity analysis.

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Implementation and Applications of Automata Oscar H. Ibarra, Bala Ravikumar, 2008-07-23. The 13th International Conference on Implementation and Application of Automata CIAA 2008 was held at San Francisco State University, San Francisco, July 21-24, 2008. This volume of Lecture Notes in Computer Science contains the papers that were presented at CIAA 2008 as well as the abstracts of the poster papers that were displayed during the conference. The volume also includes the per extended abstract of the four invited talks presented by Markus Holzer, Kai Salomaa, Mihalis Yannakakis, and Hsu-Chun Yen. The 24 regular papers were selected from 40 submissions covering various topics in the theory, implementation, and applications of automata and related structures. Each submitted paper was reviewed by at least three Program Committee members with the assistance of external referees. The authors of the papers and posters presented in this volume come from the following countries: Australia, Belgium, Canada, China, Columbia, Czech Republic, France, Germany, Hungary, Italy, Japan, The Netherlands, Poland, Portugal, Romania, Russia, Spain, Sweden, Taiwan, United Arab Emirates, and USA. We wish to thank all who made this conference possible: the authors for submitting papers, the Program Committee members and external referees listed in the proceedings for their excellent work, and the four invited speakers. Finally, we wish to express our sincere appreciation to the sponsors, local organizers, and the editors of the Lecture Notes in Computer Science series and Springer, in particular Alfred Hofmann, for their help in publishing this volume in a timely manner.

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Implementation and Application of Automata, 2005 **Implementation and Application of Automata** Frank Drewes, 2017 **Implementation and Application of Automata** Michael Domaratzki, Kai Salomaa, 2011-02-04 This book

constitutes the thoroughly refereed papers of the 15th International Conference on Implementation and Application of Automata CIAA 2010 held in Manitoba Winnipeg Canada in August 2010 The 26 revised full papers together with 6 short papers were carefully selected from 52 submissions The papers cover various topics such as applications of automata in computer aided verification natural language processing pattern matching data storage and retrieval bioinformatics algebra graph theory and foundational work on automata theory 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 **Implementation and Application of Automata** Jean-Marc Champarnaud,Denis Maurel,2003-08-03 The refereed post proceedings of the 7th International Conference on Implementation and Application of Automata CIAA 2002 held in Tours France in July 2002 The 28 revised full papers presented together with an invited paper and 4 short papers were carefully selected during two rounds of reviewing and revision The topics addressed range from theoretical and methodological issues to automata applications in software engineering natural language processing speech recognition and image processing to new representations and algorithms for efficient implementation of automata and related structures

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