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Algorithmic Randomness and Complexity

 Springer

Algorithmic Randomness And Complexity Theory And Applications Of Computability

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Algorithmic Randomness And Complexity Theory And Applications Of Computability:

Algorithmic Randomness and Complexity Rodney G. Downey, Denis R. Hirschfeldt, 2010-10-29 Computability and complexity theory are two central areas of research in theoretical computer science This book provides a systematic technical development of algorithmic randomness and complexity for scientists from diverse fields Algorithmic Randomness Johanna N. Y. Franklin, Christopher P. Porter, 2020-05-07 Surveys on recent developments in the theory of algorithmic randomness and its interactions with other areas of mathematics Proceedings Of The 14th And 15th Asian Logic Conferences Byunghan Kim, Jorg Brendle, Gyesik Lee, Fenrong Liu, R Ramanujam, Shashi M Srivastava, Akito Tsuboi, Liang Yu, 2019-01-15 The Asian Logic Conference ALC is a major international event in mathematical logic It features the latest scientific developments in the fields of mathematical logic and its applications logic in computer science and philosophical logic The ALC series also aims to promote mathematical logic in the Asia Pacific region and to bring logicians together both from within Asia and elsewhere for an exchange of information and ideas This combined proceedings volume represents works presented or arising from the 14th and 15th ALCs The Foundations of Computability Theory Borut Robič, 2020-11-13 This book offers an original and informative view of the development of fundamental concepts of computability theory The treatment is put into historical context emphasizing the motivation for ideas as well as their logical and formal development In Part I the author introduces computability theory with chapters on the foundational crisis of mathematics in the early twentieth century and formalism In Part II he explains classical computability theory with chapters on the quest for formalization the Turing Machine and early successes such as defining incomputable problems c e computably enumerable sets and developing methods for proving incomputability In Part III he explains relative computability with chapters on computation with external help degrees of unsolvability the Turing hierarchy of unsolvability the class of degrees of unsolvability c e degrees and the priority method and the arithmetical hierarchy Finally in the new Part IV the author revisits the computability Church Turing thesis in greater detail He offers a systematic and detailed account of its origins evolution and meaning he describes more powerful modern versions of the thesis and he discusses recent speculative proposals for new computing paradigms such as hypercomputing This is a gentle introduction from the origins of computability theory up to current research and it will be of value as a textbook and guide for advanced undergraduate and graduate students and researchers in the domains of computability theory and theoretical computer science This new edition is completely revised with almost one hundred pages of new material In particular the author applied more up to date more consistent terminology and he addressed some notational redundancies and minor errors He developed a glossary relating to computability theory expanded the bibliographic references with new entries and added the new part described above and other new sections Connecting with Computability Liesbeth De Mol, Andreas Weiermann, Florin Manea, David Fernández-Duque, 2021-07-01 This book constitutes the proceedings of the 17th Conference

on Computability in Europe CiE 2021 organized by the University of Ghent in July 2021 Due to COVID 19 pandemic the conference was held virtually The 48 full papers presented in this volume were carefully reviewed and selected from 50 submissions CiE promotes the development of computability related science ranging over mathematics computer science and applications in various natural and engineering sciences such as physics and biology as well as related fields such as philosophy and history of computing CiE 2021 had as its motto Connecting with Computability a clear acknowledgement of the connecting and interdisciplinary nature of the conference series which is all the more important in a time where people are more than ever disconnected from one another due to the COVID 19 pandemic Logical Foundations of Computer

Science Sergei Artemov, Anil Nerode, 2015-12-14 This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science LFCS 2016 held in Deerfield Beach FL USA in January 2016 The 27 revised full papers were carefully reviewed and selected from 46 submissions The scope of the Symposium is broad and includes constructive mathematics and type theory homotopy type theory logic automata and automatic structures computability and randomness logical foundations of programming logical aspects of computational complexity parameterized complexity logic programming and constraints automated deduction and interactive theorem proving logical methods in protocol and program verification logical methods in program specification and extraction domain theory logics logical foundations of database theory equational logic and term rewriting lambda and combinatory calculi categorical logic and topological semantics linear logic epistemic and temporal logics intelligent and multiple agent system logics logics of proof and justification non monotonic reasoning logic in game theory and social software logic of hybrid systems distributed system logics mathematical fuzzy logic system design logics and other logics in computer science **Unconventional**

Computation Cristian S. Calude, Jarkko Kari, Ion Petre, Grzegorz Rozenberg, 2011-06-12 This book constitutes the refereed proceedings of the 10th International Conference on Unconventional Computation UC 2011 held in Turku Finland in June 2011 The 17 revised full papers presented together with 6 extended abstracts of invited talks and 3 extended abstracts of tutorials were carefully reviewed and selected from 33 initial submissions The papers are devoted to all aspects of unconventional computation theory as well as experiments and applications Typical topics are natural computing including quantum cellular molecular membrane neural and evolutionary computing as well as chaos and dynamical system based computing and various proposals for computational mechanisms that go beyond the Turing model **Computability**

Theory and Its Applications Peter Cholak, 2000 This collection of articles presents a snapshot of the status of computability theory at the end of the millennium and a list of fruitful directions for future research The papers represent the works of experts in the field who were invited speakers at the AMS IMS SIAM 1999 Summer Conference on Computability Theory and Applications which focused on open problems in computability theory and on some related areas in which the ideas methods and or results of computability theory play a role Some presentations are narrowly focused others cover a wider area Topics

included from pure computability theory are the computably enumerable degrees M Lerman the computably enumerable sets P Cholak R Soare definability issues in the c.e. and Turing degrees A Nies R Shore and other degree structures M Arslanov S Badaev and S Goncharov P Odifreddi A Sorbi The topics involving relations between computability and other areas of logic and mathematics are reverse mathematics and proof theory D Cenzer and C Jockusch C Chong and Y Yang H Friedman and S Simpson set theory R Dougherty and A Kechris M Groszek T Slaman and computable mathematics and model theory K Ambos-Spies and A Kucera R Downey and J Remmel S Goncharov and B Khoussainov J Knight M Peretyatkin A Shlapentokh

Higher Recursion Theory And Set Theory James Cummings, Andrew Marks, Yue Yang, Liang Yu, 2025-02-18 This volume celebrates the research contributions of Professors Theodore A Slaman and W Hugh Woodin marking their distinguished careers in higher recursion theory and set theory as they approached the milestone of their 65th birthdays in 2019 It originates from the Institute for Mathematical Sciences program Higher Recursion Theory and Set Theory held at the National University of Singapore May 20 June 14 2019 The program explored cutting edge developments in higher recursion theory set theory and their intricate interconnections Topics discussed during the workshop included Martin's conjecture higher randomness the HOD conjecture descriptive inner model theory and the Ultimate L program This volume presents 15 peer reviewed contributions by leading experts in the field offering a comprehensive overview of recent advances in higher recursion theory and set theory with a focus on their dynamic interactions

Automata, Languages, and Programming Artur Czumaj, Kurt Mehlhorn, Andrew Pitts, Roger Wattenhofer, 2012-06-23 This two volume set of LNCS 7391 and LNCS 7392 constitutes the refereed proceedings of the 39th International Colloquium on Automata Languages and Programming ICALP 2012 held in Warwick UK in July 2012 The total of 123 revised full papers presented in this volume were carefully reviewed and selected from 432 submissions They are organized in three tracks focussing on algorithms complexity and games logic semantics automata and theory of programming and foundations of networked computation

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