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Theoretical Aspects Computing International Proceedings

**Violet Ka I Pun, Volker Stolz, Adenilso
Simao**



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Theoretical Aspects of Computing - ICTAC 2020 Violet Ka I Pun, Volker Stolz, Adenilso Simao, 2020-11-25 This book constitutes the proceedings of the 17th International Colloquium on Theoretical Aspects of Computing ICTAC 2020 which took place during November 30 December 4 2020 The conference was originally planned to take place in Macau China but changed to a virtual only format due to the COVID 19 pandemic The 15 papers presented in this volume were carefully reviewed and selected from 40 submissions The book also contains one invited talk in full paper length The book deals with challenges in both theoretical aspects of computing and the exploitation of theory through methods and tools for system development

Introduction to Choreographies Fabrizio Montesi, 2023-05-25 The first rigorous and systematic treatment of choreographies formal coordination plans for concurrent and distributed systems

Theoretical Aspects of Computing -- ICTAC 2013 Zhiming Liu, Jim Woodcock, Huibiao Zhu, 2013-08-30 This book constitutes the refereed proceedings of the 10th International Colloquium on Theoretical Aspects of Computing ICTAC 2013 held in Macau China in September 2013 The 22 revised full papers presented together with three keynote talks were carefully reviewed and selected from 64 submissions The papers cover various topics related to both theoretical aspects of computing and the exploitation of theory through methods and tools for system development

DNA Computing and Molecular Programming YASUBUMI SAKAKIBARA, Yongli Mi, 2011-01-21 This book constitutes the thoroughly refereed post conference proceedings of the 16th International Conference on DNA Computing and Molecular Programming DNA16 held in Hong Kong China in June 2010 The 16 revised full papers presented were carefully selected during two rounds of reviewing and improvement from 59 submissions The papers are well balanced between theoretical and experimental work and address all areas that relate to biomolecular computing including demonstrations of biomolecular computing theoretical models of biomolecular computing biomolecular algorithms computational processes in vitro and in vivo analysis and theoretical models of laboratory techniques biotechnological and other applications of DNA computing DNA nanostructures DNA devices such as DNA motors DNA error evaluation and correction in vitro evolution molecular design self assembled systems nucleic acid chemistry and simulation tools

Global Computing Corrado Priami, 2005-02-22 This book constitutes the thoroughly refereed post proceedings of the IST FET International Workshop on Global Computing GC 2004 held in Rovereto Italy in March 2004 The 18 revised full papers presented were carefully selected during two rounds of reviewing and improvement from numerous submissions Among the topics covered are programming environments dynamic reconfiguration resource guarantees peer to peer networks analysis of systems and resources resource sharing and security as well as foundational calculi for mobility

Theoretical Aspects of Computing - ICTAC 2018 Bernd Fischer, Tarmo Uustalu, 2018-10-13 This book constitutes the refereed proceedings of the 15th International Colloquium on Theoretical Aspects of Computing ICTAC 2018 held in Stellenbosch South Africa in October 2018 The 25 revised full papers presented together with two short and two long invited

talks were carefully reviewed and selected from 59 submissions The ICTAC conference aims at bringing together researchers and practitioners from academia industry and government to present research and exchange ideas and experience addressing challenges in both theoretical aspects of computing and the exploitation of theory through methods and tools for system development ICTAC also specifically aims to promote research cooperation between developing and industrial countries

Formal and Practical Aspects of Autonomic Computing and Networking: Specification, Development, and Verification Cong-Vinh, Phan, 2011-10-31 Autonomic computing and networking ACN a concept inspired by the human autonomic system is a priority research area and a booming new paradigm in the field Formal and Practical Aspects of Autonomic Computing and Networking Specification Development and Verification outlines the characteristics novel approaches of specification refinement programming and verification associated with ACN The goal of ACN and the topics covered in this work include making networks and computers more self organized self configured self healing self optimizing self protecting and more This book helpfully details the steps necessary towards realizing computer and network autonomy and its implications

Algorithmic Foundations for Social Advancement Shin-ichi Minato, Takeaki Uno, Norihito Yasuda, Takashi Horiyama, Ken-ichi Kawarabayashi, Shigeru Yamashita, Hirotaka Ono, 2025-03-07 This Open access book provides an overview of the cutting edge research to systematize innovative foundations in algorithmic theories and techniques and apply them to solve socially significant real life problems thereby driving social transformation and advancement Formulating such social problems into well defined mathematical or computational terms requires not only a solid theoretical foundation but also a deep understanding of the application domain itself The content is divided into three parts Following an introductory chapter in Part I Part II discusses how to bridge the gap between algorithmic solutions and social advancement Chapters 2 3 and 4 present motivating problems that showcase the remarkable performance improvements driven by algorithmic technologies followed by examples of how interfaces and tools were provided to apply these solutions to real world challenges The subsequent Chapters 5 through 12 then focus on interdisciplinary discussions regarding how to formulate real societal issues into a catalog of problems to be addressed Finally Part III spanning Chapters 13 to 23 highlights selected topics on the innovative algorithmic foundations developed through the research project focusing on intriguing subjects and the latest ongoing research These include processing large scale discrete structures graph algorithms discrete optimization quantum algorithms and various other topics related to algorithmic foundations This book will serve as a valuable resource for readers interested in the use of algorithms in real life problems This book is based on the research project in Japan Algorithmic Foundations for Social Advancement

Quantum Computation and Information Hiroshi Imai, Masahito Hayashi, 2008-09-12 Recently the field of quantum computation and information has been developing through a fusion of results from various research fields in theoretical and practical areas This book consists of the reviews of selected topics charaterized by great progress and cover the field from theoretical areas to experimental ones It contains

fundamental areas quantum query complexity quantum statistical inference quantum cloning quantum entanglement additivity It treats three types of quantum security system quantum public key cryptography quantum key distribution and quantum steganography A photonic system is highlighted for the realization of quantum information processing

Autonomic Computing and Networking Mieso Denko, Laurence Tianruo Yang, Yan Zhang, 2009-06-12 Autonomic Computing and Networking presents introductory and advanced topics on autonomic computing and networking with emphasis on architectures protocols services privacy security simulation and implementation testbeds Autonomic computing and networking are new computing and networking paradigms that allow the creation of self managing and self controlling computing and networking environments using techniques such as distributed algorithms and context awareness to dynamically control networking functions without human interventions Autonomic networking is characterized by recovery from failures and malfunctions agility to changing networking environment self optimization and self awareness The self control and management features can help to overcome the growing complexity and heterogeneity of exiting communication networks and systems The realization of fully autonomic heterogeneous networking introduces several research challenges in all aspects of computing and networking and related fields

Parallel Computing Barbara Chapman, 2010 From Multicores and GPUs to Petascale Parallel computing technologies have brought dramatic changes to mainstream computing the majority of today's PCs laptops and even notebooks incorporate multiprocessor chips with up to four processors Standard components are increasingly combined with GPUs Graphics Processing Unit originally designed for high speed graphics processing and FPGAs Free Programmable Gate Array to build parallel computers with a wide spectrum of high speed processing functions The scale of this powerful hardware is limited only by factors such as energy consumption and thermal control However in addition to

Handbook of Computability and Complexity in Analysis Vasco Brattka, Peter Hertling, 2021-06-04 Computable analysis is the modern theory of computability and complexity in analysis that arose out of Turing's seminal work in the 1930s This was motivated by questions such as which real numbers and real number functions are computable and which mathematical tasks in analysis can be solved by algorithmic means Nowadays this theory has many different facets that embrace topics from computability theory algorithmic randomness computational complexity dynamical systems fractals and analog computers up to logic descriptive set theory constructivism and reverse mathematics In recent decades computable analysis has invaded many branches of analysis and researchers have studied computability and complexity questions arising from real and complex analysis functional analysis and the theory of differential equations up to geometric measure theory and topology This handbook represents the first coherent cross section through most active research topics on the more theoretical side of the field It contains 11 chapters grouped into parts on computability in analysis complexity dynamics and randomness and constructivity logic and descriptive complexity All chapters are written by leading experts working at the cutting edge of the respective topic Researchers and graduate students in the areas of

theoretical computer science and mathematical logic will find systematic introductions into many branches of computable analysis and a wealth of information and references that will help them to navigate the modern research literature in this field

Distributed Computing by Oblivious Mobile Robots Paola Flocchini, Giuseppe Prencipe, Nicola Santoro, 2012 The study of what can be computed by a team of autonomous mobile robots originally started in robotics and AI has become increasingly popular in theoretical computer science especially in distributed computing where it is now an integral part of the investigations on computability by mobile entities The robots are identical computational entities located and able to move in a spatial universe they operate without explicit communication and are usually unable to remember the past they are extremely simple with limited resources and individually quite weak However collectively the robots are capable of performing complex tasks and form a system with desirable fault tolerant and self stabilizing properties The research has been concerned with the computational aspects of such systems In particular the focus has been on the minimal capabilities that the robots should have in order to solve a problem This book focuses on the recent algorithmic results in the field of distributed computing by oblivious mobile robots unable to remember the past After introducing the computational model with its nuances we focus on basic coordination problems pattern formation gathering scattering leader election as well as on dynamic tasks such as flocking For each of these problems we provide a snapshot of the state of the art reviewing the existing algorithmic results In doing so we outline solution techniques and we analyze the impact of the different assumptions on the robots computability power Table of Contents Introduction Computational Models Gathering and Convergence Pattern Formation Scatterings and Coverings Flocking Other Directions

Handbook of Energy-Aware and Green Computing - Two Volume Set Ishfaq Ahmad, Sanjay Ranka, 2016-02-03 Implementing energy efficient CPUs and peripherals as well as reducing resource consumption have become emerging trends in computing As computers increase in speed and power their energy issues become more and more prevalent The need to develop and promote environmentally friendly computer technologies and systems has also come to the forefront

Complexity Theory Lane A. Hemaspaandra, Alan L. Selman, 1997-06-05 This volume provides a survey of the subject in the form of a collection of articles written by experts that together provides a comprehensive guide to research The editors aim has been to provide an accessible description of the current state of complexity theory and to demonstrate the breadth of techniques and results that make this subject so exciting Thus papers run the gamut from sublogarithmic space to exponential time and from new combinatorial techniques to interactive proof systems

Theoretical Aspects of Computing - ICTAC 2017 Dang Van Hung, Deepak Kapur, 2017-09-28 This book constitutes the refereed proceedings of the 14th International Colloquium on Theoretical Aspects of Computing ICTAC 2017 held in Hanoi Vietnam in October 2017 The 17 revised full papers presented together with three invited talks were carefully reviewed and selected from 40 submissions The papers are organized in topical sections on logics software components and concurrency automata SMT solvers and algorithms and security

Theoretical Aspects of Computing - ICTAC 2012 Abhik Roychoudhury, Meenakshi D'Souza, 2012-08-29 This book constitutes the refereed proceedings of the 9th International Colloquium on Theoretical Aspects of Computing ICTAC 2012 held in Bangalore India in September 2012 The 16 revised full papers presented together with the abstracts of three keynote talks were carefully reviewed and selected from 73 submissions The papers cover various topics related to both theoretical aspects of computing and the exploitation of theory through methods and tools for system development Computing and Combinatorics Wen-Lian Hsu, Ming-Yang Kao, 2007-10-28 The papers in this volume were selected for presentation at the Fourth Annual International Computing and Combinatorics Conference COCOON 98 held on August 12 14 1998 in Taipei The topics cover most aspects of theoretical computer science and combinatorics related to computing Submissions to the conference this year was only conducted electronically Thanks to the excellent software developed by the system team of the Institute of Information Science we were able to make virtually all communications through the World Wide Web A total of 69 papers was submitted in time to be considered of which 36 papers were accepted for presentation at the conference In addition to these contributed papers the conference also included four invited presentations by Christos Papadimitriou Michael Fishcher Fan Chung Graham and Rao Kosaraju It is expected that most of the accepted papers will appear in a more complete form in scientific journals Moreover selected papers will appear in a special issue of Theoretical Computer Science We thank all program committee members their support staff and referees for excellent work within demanding time constraints We thank all authors who submitted papers for consideration We are especially grateful to our colleagues who worked hard and offered widely differing talents to make the conference both possible and enjoyable August 1998 Wen Lian Hsu and Ming Yang Kao Program Co chairs COCOON 98 Organization COCOON 98 is organized by the Institute of Information Science Academia Sinica Taipei Taiwan ROC and in cooperation with Institute of Information and Computing Machinery IICM Taiwan ROC *Handbook of Research on Mobile Software Engineering: Design, Implementation, and Emergent Applications* Alencar, Paulo, Cowan, Donald, 2012-05-31 The popularity of an increasing number of mobile devices such as PDAs laptops smart phones and tablet computers has made the mobile device the central method of communication in many societies These devices may be used as electronic wallets social networking tools or may serve as a person's main access point to the World Wide Web The Handbook of Research on Mobile Software Engineering Design Implementation and Emergent Applications highlights state of the art research concerning the key issues surrounding current and future challenges associated with the software engineering of mobile systems and related emergent applications This handbook addresses gaps in the literature within the area of software engineering and the mobile computing world **Handbook of Parallel Computing** Sanguthevar Rajasekaran, John Reif, 2007-12-20 The ability of parallel computing to process large data sets and handle time consuming operations has resulted in unprecedented advances in biological and scientific computing modeling and simulations Exploring these recent developments the Handbook of Parallel Computing Models Algorithms and

Applications provides comprehensive coverage on a

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