

# **2024 IEEE International Parallel and Distributed Processing Symposium (IPDPS 2024)**

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# Proceedings International Parallel And Distributed Processing Symposium

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**IPDPS 2002 - International Parallel and Distributed Processing Symposium** IEEE. Computer society. Technical committee on parallel processing, 2002    *8th IEEE Symposium on Parallel and Distributed Processing*, 1996 Proceedings of the October 1996 symposium with 84 papers in sections on applications networks and routing distributed systems scheduling and data mapping graph theory and networks parallel architectures wormhole routing sorting and selection synchronization techniques load balancing datab    **Transactions on Computational Science XXV** Marina L. Gavrilova, C.J. Kenneth Tan, Khalid Saeed, Nabendu Chaki, Soharab Hossain Shaikh, 2015-04-27 The LNCS journal Transactions on Computational Science reflects recent developments in the field of Computational Science conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines The journal focuses on original high quality research in the realm of computational science in parallel and distributed environments encompassing the facilitating theoretical foundations and the applications of large scale computations and massive data processing It addresses researchers and practitioners in areas ranging from aerospace to biochemistry from electronics to geosciences from mathematics to software architecture presenting verifiable computational methods findings and solutions and enabling industrial users to apply techniques of leading edge large scale high performance computational methods This the 25th issue of the Transactions on Computational Science journal consists of two parts Part I which is guest edited by Khalid Saeed Nabendu Chaki and Soharab Hossain Shaikh covers the areas of computer vision image processing for biometric security information fusion and Kinect activity recognition The papers in Part II focus on optimization through novel methods for data fusion clustering in WSN fault tolerance probability weight assignment and risk analysis

**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    *Wireless Ad hoc and Sensor Networks*

Jagannathan Sarangapani,2017-12-19 With modern communication networks continuing to grow in traffic size complexity and variety control systems are critical to ensure quality and effectively manage network traffic Providing a thorough and authoritative introduction Wireless Ad hoc and Sensor Networks Protocols Performance and Control examines the theory architectures and technologies needed to implement quality of service QoS in a wide variety of communication networks Based on years of research and practical experience this book examines the technical concepts underlying the design implementation research and invention of both wired and wireless networks The author builds a strong understanding of general concepts and common principles while also exploring issues that are specific to wired cellular wireless ad hoc and sensor networks Beginning with an overview of networks and QoS control he systematically explores timely areas such as Lyapunov analysis congestion control of high speed networks admission control based on hybrid system theory distributed power control of various network types link state routing using QoS parameters and predictive congestion control The book also provides a framework for implementing QoS control using mote hardware Providing a deeply detailed yet conveniently practical guide to QoS implementation Wireless Ad hoc and Sensor Networks Protocols Performance and Control is the perfect introduction for anyone new to the field as well as an ideal reference guide for seasoned network practitioners

Distributed Computing Innovations for Business, Engineering, and Science Loo, Alfred Waising,2012-11-30 This book is a collection of widespread research providing relevant theoretical frameworks and research findings on the applications of distributed computing innovations to the business engineering and science fields Provided by publisher

**Energy-Efficient Distributed Computing Systems** Albert Y. Zomaya,Young Choon Lee,2012-07-26 The energy consumption issue in distributed computing systems raises various monetary environmental and system performance concerns Electricity consumption in the US doubled from 2000 to 2005 From a financial and environmental standpoint reducing the consumption of electricity is important yet these reforms must not lead to performance degradation of the computing systems These contradicting constraints create a suite of complex problems that need to be resolved in order to lead to greener distributed computing systems This book brings together a group of outstanding researchers that investigate the different facets of green and energy efficient distributed computing Key features One of the first books of its kind Features latest research findings on emerging topics by well known scientists Valuable research for grad students postdocs and researchers Research will greatly feed into other technologies and application domains

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across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the Software Engineering Body of Knowledge SWEBOK as a template for organizing the material Also available in an electronic format this encyclopedia supplies software engineering students IT professionals researchers managers and scholars with unrivaled coverage of the topics that encompass this ever changing field Also Available Online This Taylor E mail e reference taylorandfrancis.com International Tel 44 0 20 7017 6062 E mail online sales tandf.co.uk

**Programming Multicore and Many-core Computing Systems** Sabri Pllana, Fatos Xhafa, 2017-02-06 Programming multi core and many core computing systems Sabri Pllana Linnaeus University Sweden Fatos Xhafa Technical University of Catalonia Spain Provides state of the art methods for programming multi core and many core systems The book comprises a selection of twenty two chapters covering fundamental techniques and algorithms programming approaches methodologies and frameworks scheduling and management testing and evaluation methodologies and case studies for programming multi core and many core systems Program development for multi core processors especially for heterogeneous multi core processors is significantly more complex than for single core processors However programmers have been traditionally trained for the development of sequential programs and only a small percentage of them have experience with parallel programming In the past only a relatively small group of programmers interested in High Performance Computing HPC was concerned with the parallel programming issues but the situation has changed dramatically with the appearance of multi core processors on commonly used computing systems It is expected that with the pervasiveness of multi core processors parallel programming will become mainstream The pervasiveness of multi core processors affects a large spectrum of systems from embedded and general purpose to high end computing systems This book assists programmers in mastering the efficient programming of multi core systems which is of paramount importance for the software intensive industry towards a more effective product development cycle Key features Lessons challenges and roadmaps ahead Contains real world examples and case studies Helps programmers in mastering the efficient programming of multi core and many core systems The book serves as a reference for a larger audience of practitioners young researchers and graduate level students A basic level of programming knowledge is required to use this book

**IPDPS 2007 California**, 2007 *Data Deduplication Approaches* Tin Thein Thwel, G. R. Sinha, 2020-11-25 In the age of data science the rapidly increasing amount of data is a major concern in numerous applications of computing operations and data storage Duplicated data or redundant data is a main challenge in the field of data science research Data Deduplication Approaches Concepts Strategies and Challenges shows readers the various methods that can be used to eliminate multiple copies of the same files as well as duplicated segments or chunks of data within the associated files Due to ever increasing data duplication its deduplication has become an especially useful field

of research for storage environments in particular persistent data storage Data Deduplication Approaches provides readers with an overview of the concepts and background of data deduplication approaches then proceeds to demonstrate in technical detail the strategies and challenges of real time implementations of handling big data data science data backup and recovery The book also includes future research directions case studies and real world applications of data deduplication focusing on reduced storage backup recovery and reliability Includes data deduplication methods for a wide variety of applications Includes concepts and implementation strategies that will help the reader to use the suggested methods Provides a robust set of methods that will help readers to appropriately and judiciously use the suitable methods for their applications Focuses on reduced storage backup recovery and reliability which are the most important aspects of implementing data deduplication approaches Includes case studies

**Handbook of Algorithms for Wireless Networking and Mobile Computing** Azzedine Boukerche, 2005-11-28 The Handbook of Algorithms for Wireless Networking and Mobile Computing focuses on several aspects of mobile computing particularly algorithmic methods and distributed computing with mobile communications capability It provides the topics that are crucial for building the foundation for the design and construction of future generations of mobile and wireless networks including cellular wireless ad hoc sensor and ubiquitous networks Following an analysis of fundamental algorithms and protocols the book offers a basic overview of wireless technologies and networks Other topics include issues related to mobility aspects of QoS provisioning in wireless networks future applications and much more

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