

Kim-Meow Liew Hong Shen
Simon See Wentong Cai
Pingzhi Fan Susumu Horiguchi (Eds.)

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Jin-Ying Zhang



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Proceedings, ISPDC 2004, Third International Symposium on Parallel and Distributed Computing, HeteroPar '04, Third International Workshop on Algorithms, Models, and Tools for Parallel Computing on Heterogeneous Networks ,2004

Parallel and Distributed Computing, 2004. Third International Symposium On/Algorithms, Models and Tools for Parallel Computing on Heterogeneous Networks, 2004. Third International Workshop on Enterprise Ireland (Dublin),2004

High-Performance Parallel Database Processing and Grid Databases David Taniar, Clement H. C. Leung, Wenny Rahayu, Sushant Goel, 2008-09-17 The latest techniques and principles of parallel and grid database processing The growth in grid databases coupled with the utility of parallel query processing presents an important opportunity to understand and utilize high performance parallel database processing within a major database management system DBMS This important new book provides readers with a fundamental understanding of parallelism in data intensive applications and demonstrates how to develop faster capabilities to support them It presents a balanced treatment of the theoretical and practical aspects of high performance databases to demonstrate how parallel query is executed in a DBMS including concepts algorithms analytical models and grid transactions High Performance Parallel Database Processing and Grid Databases serves as a valuable resource for researchers working in parallel databases and for practitioners interested in building a high performance database It is also a much needed self contained textbook for database courses at the advanced undergraduate and graduate levels

Parallel and Distributed Processing and Applications Jiannong Cao, Laurence T. Yang, Minyi Guo, Francis Lau, 2005-01-17 Welcome to the proceedings of the 2nd International Symposium on Parallel and Distributed Processing and Applications ISPA2004 which was held in Hong Kong China 13 15 December 2004 With the advance of computer networks and hardware technology parallel and distributed processing has become a key technology which plays an important part in determining future research and development activities in many academic and industrial branches It provides a means to solve computationally intensive problems by improving processing speed It is also the only approach to building highly reliable and inherently distributed applications ISPA2004 provided a forum for scientists and engineers in academia and industry to exchange and discuss their experiences new ideas research results and applications about all aspects of parallel and distributed computing There was a very large number of paper submissions 361 from 26 countries and regions including not only Asia and the Pacific but also Europe and North America All submissions were reviewed by at least three program or technical committee members or external reviewers It was extremely difficult to select the presentations for the conference because there were so many excellent and interesting submissions In order to allocate as many papers as possible and keep the high quality of the conference we finally decided to accept 78 regular papers and 38 short papers for oral technical presentations We believe that all of these papers and topics not only provide novel ideas new results work in progress and state of the art techniques in this field but also stimulate the future research activities in the area

of parallel and distributed computing with applications **Computational Science - ICCS 2020** Valeria V. Krzhizhanovskaya, Gábor Závodszy, Michael H. Lees, Jack J. Dongarra, Peter M. A. Sloot, Sérgio Brissos, João Teixeira, 2020-06-18 The seven volume set LNCS 12137 12138 12139 12140 12141 12142 and 12143 constitutes the proceedings of the 20th International Conference on Computational Science ICCS 2020 held in Amsterdam The Netherlands in June 2020 The total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions 230 submissions to the main track and 489 submissions to the workshops The papers were organized in topical sections named Part I ICCS Main Track Part II ICCS Main Track Part III Advances in High Performance Computational Earth Sciences Applications and Frameworks Agent Based Simulations Adaptive Algorithms and Solvers Applications of Computational Methods in Artificial Intelligence and Machine Learning Biomedical and Bioinformatics Challenges for Computer Science Part IV Classifier Learning from Difficult Data Complex Social Systems through the Lens of Computational Science Computational Health Computational Methods for Emerging Problems in Dis Information Analysis Part V Computational Optimization Modelling and Simulation Computational Science in IoT and Smart Systems Computer Graphics Image Processing and Artificial Intelligence Part VI Data Driven Computational Sciences Machine Learning and Data Assimilation for Dynamical Systems Meshfree Methods in Computational Sciences Multiscale Modelling and Simulation Quantum Computing Workshop Part VII Simulations of Flow and Transport Modeling Algorithms and Computation Smart Systems Bringing Together Computer Vision Sensor Networks and Machine Learning Software Engineering for Computational Science Solving Problems with Uncertainties Teaching Computational Science UNcErtainty QUantificatiOn for ComputatiOnAl modeLs The conference was canceled due to the COVID 19 pandemic **Handbook of Research on Scalable Computing Technologies** Li, Kuan-Ching, Hsu, Ching-Hsien, Yang, Laurence Tianruo, Dongarra, Jack, Zima, Hans, 2009-07-31 This book presents discusses shares ideas results and experiences on the recent important advances and future challenges on enabling technologies for achieving higher performance Provided by publisher **Wireless Sensor Networks** Fadi Al-Turjman, 2018-01-03 Wireless Sensor Networks overcome the difficulties of other monitoring systems However they require further efficiencies for Outdoor Environment Monitoring OEM applications due to their harsh operational conditions huge targeted areas limited energy budget and required 3D setups A fundamental issue in defeating these practical challenges is deployment planning The deployment plan is a key factor of many intrinsic properties of OEM networks summarized in connectivity lifetime fault tolerance and cost effectiveness This book investigates the problem of WSNs deployments that address these properties in order to overcome the unique challenges and circumstances in OEM applications *Ant Colony Optimization* Helio Barbosa, 2013-02-20 Ant Colony Optimization ACO is the best example of how studies aimed at understanding and modeling the behavior of ants and other social insects can provide inspiration for the development of computational algorithms for the solution of difficult mathematical problems Introduced by Marco Dorigo in

his PhD thesis 1992 and initially applied to the travelling salesman problem the ACO field has experienced a tremendous growth standing today as an important nature inspired stochastic metaheuristic for hard optimization problems This book presents state of the art ACO methods and is divided into two parts I Techniques which includes parallel implementations and II Applications where recent contributions of ACO to diverse fields such as traffic congestion and control structural optimization manufacturing and genomics are presented Stabilization, Safety, and Security of Distributed Systems Rachid Guerraoui, Franck Petit, 2009-11-04 This book constitutes the refereed proceedings of the 11th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2009 held in Lyon France in November 2009 The 49 revised full papers and 14 brief announcements presented together with three invited talks were carefully reviewed and selected from 126 submissions The papers address all safety and security related aspects of self stabilizing systems in various areas The most topics related to self systems The special topics were alternative systems and models autonomic computational science cloud computing embedded systems fault tolerance in distributed systems dependability formal methods in distributed systems grid computing mobility and dynamic networks multicore computing peer to peer systems self organizing systems sensor networks stabilization and system safety and security **Computational Science - ICCS ...**, 2002 **2004 International Conference on Supercomputing**, 2004 *Data Placement in Widely Distributed Systems* Tevfik Kosar, 2005 *Remote Instrumentation and Virtual Laboratories* Franco Davoli, Norbert Meyer, Roberto Pugliese, Sandro Zappatore, 2010-03-10 Accessing remote instrumentation worldwide is one of the goals of e Science The task of enabling the execution of complex experiments that involve the use of distributed scientific instruments must be supported by a number of different architectural domains which inter work in a coordinated fashion to provide the necessary functionality These domains embrace the physical instruments the communication network interconnecting the distributed systems the service oriented abstractions and their middleware The Grid paradigm or more generally the Service Oriented Architecture SOA viewed as a tool for the integration of distributed resources plays a significant role not only to manage computational aspects but increasingly as an aggregator of measurement instrumentation and pervasive large scale data acquisition platforms In this context the functionality of a SOA allows managing maintaining and exploiting heterogeneous instrumentation and acquisition devices in a unified way by providing standardized interfaces and common working environments to their users but the peculiar aspects of dealing with real instruments of widely different categories may add new functional requirements to this scenario On the other hand the growing transport capacity of core and access networks allows data transfer at unprecedented speed but new challenges arise from wireless access wireless sensor networks and the traversal of heterogeneous network domains The book focuses on all aspects related to the effective exploitation of remote instrumentation and to the building complex virtual laboratories on top of real devices and infrastructures These include SOA and related middleware high speed networking in support of Grid applications wireless Grids for acquisition devices and

sensor networks Quality of Service QoS provisioning for real time control measurement instrumentation and methodology as well as metrology issues in distributed systems **Grid and Cooperative Computing** ,2005 Parallel and Distributed Computing: Applications and Technologies Kim-Meow Liew,Wentong Cai,Simon See,Hong Shen,2004 Parallel and Distributed Computing: Applications and Technologies Kim-Meow Liew,Hong Shen,Simon See,Wentong Cai,Pingzhi Fan,Susumu Horiguchi,2004-12-07 The 2004 International Conference on Parallel and Distributed Computing Applications and Technologies PDCAT 2004 was the fth annual conference and was held at the Marina Mandarin Hotel Singapore on December 8 10 2004 Since the inaugural PDCAT held in Hong Kong in 2000 the conference has come a major forum for scientists engineers and practitioners throughout the world to present the latest research results ideas developments techniques and applications in all areas of parallel and distributed computing The technical program was comprehensive and featured keynote speeches te nical paper presentations and exhibitions showcased by industry vendors The technical program committee was overwhelmed with submissions of papers for presentation from countries worldwide We received 242 papers and after viewing them based on stringent selection criteria we accepted 173 papers The papers in the proceedings focus on parallel and distributed computing viewed from the three perspectives of networking and architectures software systems and technologies and algorithms and applications We acknowledge the great contribution from all of our local and international committee members and perreviewerswhodevotedtheirtimeinthereviewprocessandprovidedvaluable feedback for the authors PDCAT 2004 could never have been successful without the support and ass tance of several institutions and many people We sincerely appreciate the s port from the National Grid O ce and IEEE Singapore for technical co sponsorship The nancialsponsorshipsfromtheindustrialsponsors Hewlett Packard Singapore IBM Singapore Sun Microsystems SANDZ Solutions S icon Graphics and Advanced Digital Information Corporation are gratefully acknowledged

Parallel Processing and Applied Mathematics ,2005 Book Review Index ,2006 Every 3rd issue is a quarterly cumulation **Parallel and Distributed Computing Systems** David A. Bader,Ashfag A. Khokhar,2004-01-01 **The Sixth International Symposium on Parallel and Distributed Computing** Dieter Kranzlmüller,Wolfgang Schreiner,Jens Volkert,2007-01-01

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