

First International Workshop On Massivel

Massively Multi-Agent Systems II Donghui Lin 2019-05-18 This book contains revised selected and invited papers presented at the International Workshop on Massively Multi-Agent Systems, MMAS 2018, held in Stockholm, Sweden, in July 2018. The 7 revised full papers presented were carefully reviewed and selected for inclusion in this volume. Also included are 3 post-workshop papers. The papers discuss enabling technologies, new architectures, promising applications, and challenges of massively multi-agent systems in the era of IoT. They are organized in the following topical sections: multi-agent systems and Internet of Things; architectures for massively multi-agent systems; and applications of massively multi-agent systems.

Parallel Computing Using Optical Interconnections Keqin Li 2007-08-26 Advances in optical technologies have made it possible to implement optical interconnections in future massively parallel processing systems. Photons are non-charged particles, and do not naturally interact. Consequently, there are many desirable characteristics of optical interconnects, e.g. high speed (speed of light), increased fanout, high bandwidth, high reliability, longer interconnection lengths, low power requirements, and immunity to EMI with reduced crosstalk. Optics can utilize free-space interconnects as well as guided wave technology, neither of which has the problems of VLSI technology mentioned above. Optical interconnections can be built at various levels, providing chip-to-chip, module-to-module, board-to-board, and node-to-node communications. Massively parallel processing using optical interconnections poses new challenges; new system configurations need to be designed, scheduling and data communication schemes based on new resource metrics need to be investigated, algorithms for a wide variety of applications need to be developed under the novel computation models that optical interconnections permit, and so on. Parallel Computing Using Optical Interconnections is a collection of survey articles written by leading and active scientists in the area of parallel computing using optical interconnections. This is the first book which provides current and comprehensive coverage of the field, reflects the state of the art from high-level architecture design and algorithmic points of view, and points out directions for further research and development.

Networked Graphics Anthony Steed 2009-10-30 *Networked Graphics* equips programmers and designers with a thorough grounding in the techniques used to create truly network-enabled computer graphics and games. Written for graphics/game/VE developers and students, it assumes no prior knowledge of networking. The text offers a broad view of what types of different architectural patterns can be found in current systems, and readers will learn the tradeoffs in achieving system requirements on the Internet. It explains the foundations of networked graphics, then explores real systems in depth, and finally considers standards and extensions. Numerous case studies and examples with working code are featured throughout the text, covering groundbreaking academic research and military simulation systems, as well as industry-leading game designs. Everything designers need to know when developing networked graphics and games is covered in one volume - no need to consult multiple sources. The many examples throughout the text feature real simulation code in C++ and Java that developers can use in their own design experiments. Case studies describing real-world systems show how requirements and constraints can be managed.

Massively Multi-Agent Technology Nadeem Jamali 2008-08-17 With the proliferation of consumer devices, computation is becoming truly ubiquitous. Multi-agent systems hold the promise to enable utilization of these computational resources for ground-breaking new applications. However, as the number of agents involved in multi-agent computations rises, traditional approaches of building multi-agent systems fail to scale. Massively multi-agent systems address this challenge of scale. Massive, in this context, is meant to capture the complexity of such systems, which precludes decision making to focus on individual agents. Agents making decisions have to reduce the complexity of the space in which they must decide. The focus, therefore, is on the approaches to manage the complexity, implications of this abstraction, as well as on identifying ways of applying the paradigm to problems. Papers appearing in this volume have been selected from three international workshops held in conjunction with the International Conferences on Autonomous Agents and Multiagent Systems (AAMAS) held in 2006 and 2007: First

International Workshop on Coordination and Control in Massively Multi-agent Systems (CCMMS 2007); and the jointly held Second International Workshop on Massively Multi-agent Systems (MMAS 2006) and the Third International Workshop on Challenges in the Coordination of Large-Scale Multi-agent Systems (LSMAS 2006).

EURO-PAR '95: Parallel Processing Seif Haridi 1995 This book presents the proceedings of the First International EURO-PAR Conference on Parallel Processing, held in Stockholm, Sweden in August 1995. EURO-PAR is the merger of the former PARLE and CONPAR-VAPP conference series; the aim of this merger is to create the premier annual scientific conference on parallel processing in Europe. The book presents 50 full revised research papers and 11 posters selected from a total of 196 submissions on the basis of 582 reviews. The scope of the contributions spans the full spectrum of parallel processing ranging from theory over design to application; thus the volume is a "must" for anybody interested in the scientific aspects of parallel processing or its advanced applications.

Proceedings of the First International Workshop on Massively Parallel Processing Using Optical Interconnections International Workshop on Massively Parallel Processing Using Optical Interconnections 1994 Fifth International Conference on Massively Parallel Processing Lennart Johnsson 1998 This text covers the subjects of computer architecture and parallel and high-performance computing. Topics include: free-space optical interconnect systems; design and analysis of optical interconnects; interconnect system analysis; and fiber-based interconnects.

Parallel and Distributed Processing and Applications Yi Pan 2005-10-21 This book constitutes the refereed proceedings of the Third International Symposium on Parallel and Distributed Processing and Applications, ISPA 2005, held in Nanjing, China in November 2005. The 90 revised full papers and 19 revised short papers presented together with 3 keynote speeches and 2 tutorials were carefully reviewed and selected from 645 submissions. The papers are organized in topical sections on cluster systems and applications, performance evaluation and measurements, distributed algorithms and systems, fault tolerance and reliability, high-performance computing and architecture, parallel algorithms and systems, network routing and communication algorithms, security algorithms and systems, grid applications and systems, database applications and data mining, distributed processing and architecture, sensor networks and protocols, peer-to-peer algorithms and systems, internet computing and Web technologies, network protocols and switching, and ad hoc and wireless networks.

Algorithms and Networking for Computer Games Jouni Smed 2017-06-06 The essential guide to solving algorithmic and networking problems in commercial computer games, revised and extended *Algorithms and Networking for Computer Games, Second Edition* is written from the perspective of the computer scientist. Combining algorithmic knowledge and game-related problems, it explores the most common problems encountered in game programming. The first part of the book presents practical algorithms for solving "classical" topics, such as random numbers, procedural generation, tournaments, group formations and game trees. The authors also focus on how to find a path in, create the terrain of, and make decisions in the game world. The second part introduces networking related problems in computer games, focusing on four key questions: how to hide the inherent communication delay, how to best exploit limited network resources, how to cope with cheating and how to measure the on-line game data. Thoroughly revised, updated, and expanded to reflect the many constituent changes occurring in the commercial gaming industry since the original, this Second Edition, like the first, is a timely, comprehensive resource offering deeper algorithmic insight and more extensive coverage of game-specific networking problems than ordinarily encountered in game development books. *Algorithms and Networking for Computer Games, Second Edition*: Provides algorithmic solutions in pseudo-code format, which emphasises the idea behind the solution, and can easily be written into a programming language of choice Features a section on the Synthetic player, covering decision-making, influence maps, finite-state machines, flocking, fuzzy sets, and probabilistic reasoning and noise generation Contains in-depth treatment of network communication, including dead-reckoning, local perception filters, cheating prevention and on-line metrics Now includes 73 ready-to-use algorithms and 247 illustrative

exercises Algorithms and Networking for Computer Games, Second Edition is a must-have resource for advanced undergraduate and graduate students taking computer game related courses, postgraduate researchers in game-related topics, and developers interested in deepening their knowledge of the theoretical underpinnings of computer games and in learning new approaches to game design and programming.

Proceedings of the Second International Conference on Massively Parallel Processing Using Optical Interconnections, October 23-24, 1995, San Antonio, Texas

Eugen Schenfeld 1995 Annotation Offers eight invited lectures by contributors from academia and industry in the fields of parallel computer systems, optical interconnections, and technology; two panel discussions; and 34 papers by contributors from throughout the world. In addition to reporting on recent advances in the field, they speculate on how optical interconnections might impact the design of parallel computer systems and communication networks, and the writing of applications and algorithms. Among the topics are reconfigurable architectures, embedding and mapping of applications and algorithms, the packaging and layout of optical interconnections, passive optical elements, data distribution and partitioning, and cost/performance studies. No subject index. Annotation copyright by Book News, Inc., Portland, OR.

Web-Age Information Management Yunjun Gao 2013-06-12 This book constitutes the refereed proceedings of six workshops of the 14th International Conference on Web-Age Information Management, WAIM 2013, held in Beidaihe, China, June 2013. The 37 revised full papers are organized in topical sections on the six following workshops: The International Workshop on Big Data Management on Emerging Hardware (HardBD 2013), the Second International Workshop on Massive Data Storage and Processing (MDSP 2013), the First International Workshop on Emergency Management in Big Data Age (BigEM 2013), the International Workshop on Trajectory Mining in Social Networks (TMSN 2013), the First International Workshop on Location-based Query Processing in Mobile Environments (LQPM 2013), and the First International Workshop on Big Data Management and Service (BDMS 2013).

Parallel Computer Routing and Communication Kevin Bolding

1994-09-28 This volume contains revised versions of the 23 regular papers presented at the First International Workshop on Parallel Computer Routing and Communication (PCRCW '94), held in Seattle, Washington in May 1994. Routing for parallel computer communication has recently experienced almost explosive activity: ever increasing processor speeds are placing greater demands on interprocessor communication, while technological advances offer new capabilities to respond to those demands. The contributions from industry and academia cover all areas, from details of hardware design to proofs of theoretical results. There are also many papers dealing with the performance of various adaptive routing schemes, new network topologies, network interfaces, and fault-tolerant issues.

Randomization Methods in Algorithm Design Panos M. Pardalos

This volume is based on proceedings held during the DIMACS workshop on Randomization Methods in Algorithm Design in December 1997 at Princeton. The workshop was part of the DIMACS Special Year on Discrete Probability. It served as an interdisciplinary research workshop that brought together a mix of leading theorists, algorithmists and practitioners working in the theory and implementation aspects of algorithms involving randomization. Randomization has played an important role in the design of both sequential and parallel algorithms. The last decade has witnessed tremendous growth in the area of randomized algorithms. During this period, randomized algorithms went from being a tool in computational number theory to finding widespread applications in many problem domains. Major topics covered include randomization techniques for linear and integer programming problems, randomization in the design of approximate algorithms for combinatorial problems, randomization in parallel and distributed algorithms, practical implementation of randomized algorithms, de-randomization issues, and pseudo-random generators. This volume focuses on theory and implementation aspects of algorithms involving randomization. It would be suitable as a graduate or advanced graduate text.

Distributed Computing and Artificial Intelligence, 15th International

Conference Fernando De La Prieta 2018-07-04 The 15th International Symposium on Distributed Computing and Artificial Intelligence 2018 (DAI 2018) is a forum to present applications of innovative techniques for studying and solving complex problems. The exchange of ideas between scientists and technicians from both the academic and

industrial sector is essential to facilitate the development of systems that can meet the ever-increasing demands of today's society. The present edition brings together past experience, current work and promising future trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the University of Castilla-La Mancha, the Osaka Institute of Technology and the University of Salamanca. The present edition was held in Toledo, Spain, from 20th - 22nd June, 2018.

Euro-Par 2023: Parallel Processing Workshops Demetris Zeinalipour

2024-02-04 This book constitutes revised selected papers from the workshops held at the 29th International Conference on Parallel and Distributed Computing, Euro-Par 2023, which took place in Limassol, Cyprus, during August 28-September 1, 2023. The 42 full papers presented in this book together with 11 symposium papers and 14 demo/poster papers were carefully reviewed and selected from 55 submissions. The papers cover covering all aspects of parallel and distributed processing, ranging from theory to practice, from small to the largest parallel and distributed systems and infrastructures, from fundamental computational problems to applications, from architecture, compiler, language and interface design and implementation, to tools, support infrastructures, and application performance aspects. LNCS 14351: First International Workshop on Scalable Compute Continuum (WSCC 2023). First International Workshop on Tools for Data Locality, Power and Performance (TDLPP 2023). First International Workshop on Urgent Analytics for Distributed Computing (QuickPar 2023). 21st International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms (HETEROPAR 2023). LNCS 14352: Second International Workshop on Resource Awareness of Systems and Society (RAW 2023). Third International Workshop on Asynchronous Many-Task systems for Exascale (AMTE 2023). Third International Workshop on Performance and Energy-efficiency in Concurrent and Distributed Systems (PECS 2023) First Minisymposium on Applications and Benefits of UPMEM commercial Massively Parallel Processing-In-Memory Platform (ABUMPIMP 2023). First Minsymposium on Adaptive High Performance Input / Output Systems (ADAPIO 2023).

Parallel Processing of Discrete Problems Panos M. Pardalos

2012-12-06 In the past two decades, breakthroughs in computer technology have made a tremendous impact on optimization. In particular, availability of parallel computers has created substantial interest in exploring the use of parallel processing for solving discrete and global optimization problems. The chapters in this volume cover a broad spectrum of recent research in parallel processing of discrete and related problems. The topics discussed include distributed branch-and-bound algorithms, parallel genetic algorithms for large scale discrete problems, simulated annealing, parallel branch-and-bound search under limited-memory constraints, parallelization of greedy randomized adaptive search procedures, parallel optical models of computing, randomized parallel algorithms, general techniques for the design of parallel discrete algorithms, parallel algorithms for the solution of quadratic assignment and satisfiability problems. The book will be a valuable source of information to faculty, students and researchers in combinatorial optimization and related areas.

Massively Multi-Agent Systems I Toru Ishida 2009-09-02 In the era of ubiquitous computing and networking, millions of electronic devices with computing facilities in the public space are connected with each other in ad hoc ways, but are required to behave coherently. Massively multi-agent systems, MMAS can be a major design paradigm or an implementation method for ubiquitous computing and ambient intelligence. As the infrastructure of massively multi-agent systems, technologies such as grid computing together with semantic annotation can be combined with agent technology. A new system design approach, society-centered design, may be realized by embedding participatory technologies in human society. This book originates from the First International Workshop on Massively Multi-Agent Systems, MMAS 2004, held in Kyoto, Japan in December 2004. The 25 revised full selected and invited papers give an excellent introduction and overview on massively multi-agent systems. The papers are organized in parts on massively multi-agent technology, teams and organization, ubiquitous computing and ambient intelligence, and massively multi-agent systems in the public space.

Euro-Par 2023: Parallel Processing Workshops Demetris Zeinalipour

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Cyprus, during August 28-September 1, 2023. The 42 full papers presented in this book together with 11 symposium papers and 14 demo/poster papers were carefully reviewed and selected from 55 submissions. The papers cover covering all aspects of parallel and distributed processing, ranging from theory to practice, from small to the largest parallel and distributed systems and infrastructures, from fundamental computational problems to applications, from architecture, compiler, language and interface design and implementation, to tools, support infrastructures, and application performance aspects. LNCS 14351: First International Workshop on Scalable Compute Continuum (WSCC 2023). First International Workshop on Tools for Data Locality, Power and Performance (TDLPP 2023). First International Workshop on Urgent Analytics for Distributed Computing (QuickPar 2023). 21st International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms (HETEROPAR 2023). LNCS 14352: Second International Workshop on Resource Awareness of Systems and Society (RAW 2023). Third International Workshop on Asynchronous Many-Task systems for Exascale (AMTE 2023). Third International Workshop on Performance and Energy-efficiency in Concurrent and Distributed Systems (PECS 2023) First Minisymposium on Applications and Benefits of UPMEM commercial Massively Parallel Processing-In-Memory Platform (ABUMPIMP 2023). First Minisymposium on Adaptive High Performance Input / Output Systems (ADAPIO 2023). Governance, Communication, and Innovation in a Knowledge Intensive Society Siqueira, Sean W.M. 2013-06-30 The proper use and dissemination of information among stakeholders, organizations, and societies is crucial for the development of productive and prosperous communities. Governance, Communication, and Innovation in a Knowledge Intensive Society gathers current research on knowledge management in governments, organizations, and institutions, and presents a compilation useful to academics, professionals, politicians, and policymakers invested in knowledge intensive societies. This book investigates the impact of knowledge and information technologies on fields as diverse as education, culture, science and business, in order to provide an effective framework for effectively navigating the nuances of an information-pervasive world.

Modeling and Management of Fuzzy Semantic RDF Data Zongmin Ma 2022-09-08 This book systemically presents the latest research findings in fuzzy RDF data modeling and management. Fuzziness widely exist in many data and knowledge intensive applications. With the increasing amount of metadata available, efficient and scalable management of massive semantic data with uncertainty is of crucial importance. This book goes to great depth concerning the fast-growing topic of technologies and approaches of modeling and managing fuzzy metadata with Resource Description Framework (RDF) format. Its major topics include representation of fuzzy RDF data, fuzzy RDF graph matching, query of fuzzy RDF data, and persistence of fuzzy RDF data in diverse databases. The objective of the book is to provide the state-of-the-art information to researchers, practitioners, and postgraduates students who work on the area of big data intelligence and at the same time serve as the uncertain data and knowledge engineering professional as a valuable real-world reference.

Towards a Service-Based Internet Witold Abramowicz 2011-10-01 This volume constitutes the refereed proceedings of the Fourth European Conference, ServiceWave 2011, held in Poznan, Poland, in October 2011. The 25 revised full papers presented together with 3 invited presentations were carefully reviewed and selected from numerous submissions. They are organized in topical sections on cloud computing, security, privacy and trust, service engineering fundamentals, business services, and FI-PPP. In addition to the scientific track, 14 extended abstracts of demonstrations covering a wide spectrum of technology and application domains were accepted.

Euro-Par 2013: Parallel Processing Workshops Dieter an Mey 2014-04-10 This book constitutes thoroughly refereed post-conference proceedings of the workshops of the 19th International Conference on Parallel Computing, Euro-Par 2013, held in Aachen, Germany in August 2013. The 99 papers presented were carefully reviewed and selected from 145 submissions. The papers include seven workshops that have been co-located with Euro-Par in the previous years: - Big Data Cloud (Second Workshop on Big Data Management in Clouds) - Hetero Par (11th Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms) - HiBB (Fourth Workshop on High Performance Bioinformatics and Biomedicine) - OMHI (Second Workshop on On-chip Memory Hierarchies and Interconnects) - PROPER (Sixth Workshop on Productivity and Performance) - Resilience (Sixth

Workshop on Resiliency in High Performance Computing with Clusters, Clouds, and Grids) - UCHPC (Sixth Workshop on Un Conventional High Performance Computing) as well as six newcomers: - DIHC (First Workshop on Dependability and Interoperability in Heterogeneous Clouds) - Fed ICI (First Workshop on Federative and Interoperable Cloud Infrastructures) - LSDVE (First Workshop on Large Scale Distributed Virtual Environments on Clouds and P2P) - MHPC (Workshop on Middleware for HPC and Big Data Systems) - PADABS (First Workshop on Parallel and Distributed Agent Based Simulations) - ROME (First Workshop on Runtime and Operating Systems for the Many core Era) All these workshops focus on promotion and advancement of all aspects of parallel and distributed computing.

Handbook of Parallel Computing Sanguthevar Rajasekaran 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 **Proceedings of the First International Workshop on Massively Parallel Processing Using Interconnections, April 26-27, 1994, Cancún, Mexico** 1994

Massively Parallel Processing Applications and Development L. Dekker 2013-10-22 The contributions of a diverse selection of international hardware and software specialists are assimilated in this book's exploration of the development of massively parallel processing (MPP). The emphasis is placed on industrial applications and collaboration with users and suppliers from within the industrial community consolidates the scope of the publication. From a practical point of view, massively parallel data processing is a vital step to further innovation in all areas where large amounts of data must be processed in parallel or in a distributed manner, e.g. fluid dynamics, meteorology, seismics, molecular engineering, image processing, parallel data base processing. MPP technology can make the speed of computation higher and substantially reduce the computational costs. However, to achieve these features, the MPP software has to be developed further to create user-friendly programming systems and to become transparent for present-day computer software. Application of novel electro-optic components and devices is continuing and will be a key for much more general and powerful architectures. Vanishing of communication hardware limitations will result in the elimination of programming bottlenecks in parallel data processing. Standardization of the functional characteristics of a programming model of massively parallel computers will become established. Then efficient programming environments can be developed. The result will be a widespread use of massively parallel processing systems in many areas of application.

A Tribute to Prof. Dr. Da Ruan Jie Lu 2012-07-18 This volume is a tribute to Professor Dr Da Ruan, who passed away suddenly on July 31, 2011, aged 50. The flood of emails that spread throughout the fuzzy logic research community with the tragic news was testimony to the respect and liking felt for this remarkable man. Da was a hardworking , highly productive scientist who, during his short life, published 35 books and more than 250 research papers in highly ranked journals and conference proceedings. He established two successful conferences, FLINS and ISKE, as well as the international journal, JCIS. This book is a collection of contributions from 88 of Da's academic friends from 47 institutes, presented in 60 chapters and over 70 pictures. A Foreword by Lotfi Zadeh begins Da's story. Section 1 provides an overview of Da's funeral on August 6, 2011. Part II outlines Da's scientific life, his education, scientific career, publications and keynote talks. Part III presents testimonials by Da's colleagues of academic activities, including guest professorships and his many visits to foreign institutes. Part IV contains thirty contributions from colleagues and friends across the world to describe their collaborative experience with Da. We hope this book will keep the memory of Da alive - great scientist, great friend, great humanitarian. He will remain in our hearts forever.

Passive Micro-Optical Alignment Methods Robert A. Boudreau 2018-10-03 The most expensive phase in the manufacture of micro-optical components and fiber optics is also one of the most performance-critical: optical alignment of the components. The increasing degree of miniaturization makes this an especially challenging task. Active alignment methods result in higher costs and awkward processes, and for some applications, they simply are not possible. Passive Micro-Optical Alignment Methods introduces the passive alignment methods that are currently available and illustrates them with many examples, references,

and critiques. The first book dedicated to passive alignment, it begins with an overview of the current activities, requirements, and general results of passive optical alignments, followed by three sections of in-depth analysis. The first of these discusses mechanical passive alignment, highlighting silicon waferboard, solder, and "Jitney" technologies as well as application of mechanical alignment to 3D free-space interconnects. The next section describes the various visual alignment techniques applied to Planar Lightwave Circuits (PLCs) and low-cost plastic and surface mount packaging. The final section details various utilities that aid passive alignment and their resulting tradeoffs and demonstrates Monte Carlo analysis to evaluate the potential of a given method. *Passive Micro-Optical Alignment Methods* provides the tools necessary to meet the challenge of precision and low-cost alignment for applications that require micron or sub-micron tolerance.

Artificial Intelligence in Education H. Chad Lane 2013-06-22 This book constitutes the refereed proceedings of the 16th International Conference on Artificial Intelligence in Education, AIED 2013, held in Memphis, TN, USA in July 2013. The 55 revised full papers presented together with 73 poster presentations were carefully reviewed and selected from a total of 168 submissions. The papers are arranged in sessions on student modeling and personalization, open-learner modeling, affective computing and engagement, educational data mining, learning together (collaborative learning and social computing), natural language processing, pedagogical agents, metacognition and self-regulated learning, feedback and scaffolding, designed learning activities, educational games and narrative, and outreach and scaling up.

Web-Age Information Management Bao Zhifeng 2012-08-15 This book constitutes the thoroughly refereed proceedings of five workshops of the 13th International Conference on Web-Age Information Management, WAIM 2012, held in Harbin, China, in August 2012. The 34 revised full papers are organized in topical sections on the five following workshops: the First International Workshop on Graph Data Management and Mining (GDMM 2012), the Second International Wireless Sensor Networks Workshop (IWSN 2012), the First International Workshop on Massive Data Storage and Processing (MDSP 2012), the Third International Workshop on Unstructured Data Management (USD 2012); the 4th International Workshop on XML Data Management (XMLDM 2012).

Proceedings of the Third International Conference on Massively Parallel Processing Using Optical Interconnections Allan Gottlieb 1996

High Performance Computing -- HiPC 2003 Timothy Mark Pinkston 2003-11-24 This book constitutes the refereed proceedings of the 10th International Conference on High-Performance Computing, HiPC 2003, held in Hyderabad, India in December 2003. The 48 revised full papers presented together with 5 keynote abstracts were carefully reviewed and selected from 164 submissions. The papers are organized in topical sections on performance issues and power-aware systems; distributed and network algorithms; routing in wireless, mobile, and cut-through networks; scientific and engineering applications; overlay networks, clusters, and grids; scheduling and software algorithms; network design and performance; grid applications and architecture support; performance analysis; scheduling and migration.

OpenMP Shared Memory Parallel Programming Matthias S. Müller 2008-05-21 This book constitutes the thoroughly refereed post-workshop proceedings of the First and the Second International Workshop on OpenMP, IWOMP 2005 and IWOMP 2006, held in Eugene, OR, USA, and in Reims, France, in June 2005 and 2006 respectively. The first part of the book presents 16 revised full papers carefully reviewed and selected from the IWOMP 2005 program and organized in topical sections on performance tools, compiler technology, run-time environment, applications, as well as the OpenMP language and its evaluation. In the second part there are 19 papers of IWOMP 2006, fully revised and grouped thematically in sections on advanced performance tuning aspects of code development applications, and proposed extensions to OpenMP.

Index to IEEE Publications Institute of Electrical and Electronics Engineers 1995 Issues for 1973- cover the entire IEEE technical literature.

Big Data Analytics Srinath Srinivasa 2012-12-15 This book constitutes the refereed proceedings of the First International Conference on Big Data Analytics, BDA 2012, held in New Delhi, India, in December 2012. The 5 regular papers and 5 short papers presented were carefully reviewed and selected from 42 submissions. The volume also contains two tutorial papers in the section perspectives on big data analytics. The

regular contributions are organized in topical sections on: data analytics applications; knowledge discovery through information extraction; and data models in analytics.

Complex Sciences Jie Zhou 2009-06-29 I was invited to join the Organizing Committee of the First International Conference on Complex Sciences: Theory and Applications (Complex 2009) as its ninth member. At that moment, eight distinguished colleagues, General Co-chairs Eugene Stanley and Gaoxi Xiao, Technical Co-chairs János Kertész and Bing-Hong Wang, Local Co-chairs Hengshan Wang and Hong-An Che, Publicity Team Shi Xiao and Yubo Wang, had spent hundreds of hours pushing the conference half way to its birth. Ever since then, I have been amazed to see hundreds of papers flooding in, reviewed and commented on by the TPC members. Finally, more than 200 contributions were - lected for the proceedings currently in your hands. They include about 200 papers from the main conference (selected from more than 320 submissions) and about 33 papers from the five collated workshops: Complexity Theory of Art and Music (COART) Causality in Complex Systems (ComplexCCS) Complex Engineering Networks (ComplexEN) Modeling and Analysis of Human Dynamics (MANDYN) Social Physics and its Applications (SPA) Complex sciences are expanding their colonies at such a dazzling speed that it - comes literally impossible for any conference to cover all the frontiers.

Switching Networks: Recent Advances Ding-Zhu Du 2013-12-01 This book contains recent developments in switching networks and applications, including classic topics, such as nonblocking and Benes conjecture, and new directions, such as optical switching networks and applications in VLSI designs. It provides the state of the art for researchers in computer networks and applied mathematics. Audience: Researchers in computer networks and applied mathematics. The book is appropriate for use in graduate courses.

Encyclopedia of Computer Science and Technology Allen Kent 2021-06-23 Volume 39 - Supplement 24 - Entity Identification to Virtual Reality in Driving Simulation. Covering more than basic computer commands and procedures, this encyclopaedia summarizes how technology has developed, the future of computer programs and applications, and the significance of computer components. Following an introduction and overview, there are approximately 750 to 800 entries.

Field-programmable Logic and Applications 1996

Massively Multi-Agent Systems I Toru Ishida 2005-06-24 In the era of ubiquitous computing and networking, millions of electronic devices with computing facilities in the public space are connected with each other in ad hoc ways, but are required to behave coherently. Massively multi-agent systems, MMAS can be a major design paradigm or an implementation method for ubiquitous computing and ambient intelligence. As the infrastructure of massively multi-agent systems, technologies such as grid computing together with semantic annotation can be combined with agent technology. A new system design approach, society-centered design, may be realized by embedding participatory technologies in human society. This book originates from the First International Workshop on Massively Multi-Agent Systems, MMAS 2004, held in Kyoto, Japan in December 2004. The 25 revised full selected and invited papers give an excellent introduction and overview on massively multi-agent systems. The papers are organized in parts on massively multi-agent technology, teams and organization, ubiquitous computing and ambient intelligence, and massively multi-agent systems in the public space.

Interconnection Networks and Mapping and Scheduling Parallel Computations Derbiau Frank Hsu 1995-01-01 This book contains the refereed proceedings of a DIMACS Workshop on Massively Parallel Computation.

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