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Algorithms and Architectures for Parallel Processing 15th International Conference, ICA3PP 2015, Zhangjiajie, China, November 18-20, 2015, Proceedings, Part IV Springer This four volume set LNCS 9528, 9529, 9530 and 9531 constitutes the refereed proceedings of the 15th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2015, held in Zhangjiajie, China, in November 2015. The 219 revised full

papers presented together with 77 workshop papers in these four volumes were carefully reviewed and selected from 807 submissions (602 full papers and 205 workshop papers). The first volume comprises the following topics: parallel and distributed architectures; distributed and network-based computing and internet of things and cyber-physical-social computing. The second volume comprises topics such as big data and its applications and parallel and distributed algorithms. The topics of the third volume are: applications of parallel and distributed computing and service dependability and security in distributed and parallel systems. The covered topics of the fourth volume are: software systems and programming models and performance modeling and evaluation. Algorithms and Architectures for Parallel Processing 15th International Conference, ICA3PP 2015, Zhangjiajie, China, November 18-20, 2015, Proceedings, Part II Springer This four volume set LNCS 9528, 9529, 9530 and 9531 constitutes the refereed proceedings of the 15th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2015, held in Zhangjiajie, China, in November 2015. The 219 revised full papers presented together with 77 workshop papers in these four volumes were carefully reviewed and selected from 807 submissions (602 full papers and 205 workshop papers). The first volume comprises the following topics: parallel and distributed architectures; distributed and network-based computing and internet of things and cyber-physical-social computing. The second volume comprises topics such as big data and its applications and parallel and distributed algorithms. The topics of the third volume are: applications of parallel and distributed computing and service dependability and security in distributed and parallel systems. The covered topics of the fourth volume are: software systems and programming models and performance modeling and evaluation. Algorithms and Architectures for Parallel Processing 15th International Conference, ICA3PP 2015, Zhangjiajie, China, November 18-20, 2015, Proceedings, Part I Springer This four volume set LNCS 9528, 9529, 9530 and 9531 constitutes the refereed proceedings of the 15th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2015, held in Zhangjiajie, China, in November 2015. The 219 revised full papers presented together with 77 workshop papers in these four volumes were carefully reviewed and selected from 807 submissions (602 full papers and 205 workshop papers). The first volume comprises the following topics: parallel and distributed architectures; distributed and network-based computing and internet of things and cyber-physical-social computing. The second volume comprises topics such as big data and its applications and parallel and distributed algorithms. The topics of the third volume are: applications of parallel and distributed computing and service dependability and security in distributed and parallel systems. The covered topics of the fourth volume are: software systems and programming models and performance modeling and evaluation. Algorithms and Architectures for Parallel Processing 15th International Conference, ICA3PP

2015, Zhangjiajie, China, November 18-20, 2015, Proceedings, Part III Springer This four volume set LNCS 9528, 9529, 9530 and 9531 constitutes the refereed proceedings of the 15th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2015, held in Zhangjiajie, China, in November 2015. The 219 revised full papers presented together with 77 workshop papers in these four volumes were carefully reviewed and selected from 807 submissions (602 full papers and 205 workshop papers). The first volume comprises the following topics: parallel and distributed architectures; distributed and network-based computing and internet of things and cyber-physical-social computing. The second volume comprises topics such as big data and its applications and parallel and distributed algorithms. The topics of the third volume are: applications of parallel and distributed computing and service dependability and security in distributed and parallel systems. The covered topics of the fourth volume are: software systems and programming models and performance modeling and evaluation. Algorithms and Architectures for Parallel Processing ICA3PP International Workshops and Symposia, Zhangjiajie, China, November 18-20, 2015, Proceedings Springer This book constitutes the refereed proceedings of the Workshops and Symposia of the 15th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2015, held in Zhangjiajie, China, in November 2015. The program of this year consists of 6 symposia/workshops that cover a wide range of research topics on parallel processing technology: the Sixth International Workshop on Trust, Security and Privacy for Big Data, TrustData 2015; the Fifth International Symposium on Trust, Security and Privacy for Emerging Applications, TSP 2015; the Third International Workshop on Network Optimization and Performance Evaluation, NOPE 2015; the Second International Symposium on Sensor-Cloud Systems, SCS 2015; the Second International Workshop on Security and Privacy Protection in Computer and Network Systems, SPPCN 2015; and the First International Symposium on Dependability in Sensor, Cloud, and Big Data Systems and Applications, DependSys 2015. The aim of these symposia/workshops is to provide a forum to bring together practitioners and researchers from academia and industry for discussion and presentations on the current research and future directions related to parallel processing technology. The themes and topics of these symposia/workshops are a valuable complement to the overall scope of ICA3PP 2015 and give additional values and interests. Algorithms and Architectures from Parallel Processing 15th International Conference, ICA3PP 2015, Zhangjiajie, China, November 18-20, 2015. Proceedings, Part III Algorithms and Architectures for Parallel Processing 10th International Conference, ICA3PP 2010, Busan, Korea, May 21-23, 2010. Workshops, Part II Springer It is our great pleasure to present the proceedings of the symposia and workshops on parallel and distributed computing and applications associated with the ICA3PP 2010 conference. These symposia and workshops provide vibrant opportunities for researchers and industry

practitioners to share their research experience, original research results and practical development experiences in the new challenging research areas of parallel and distributed computing technologies and applications. It was the first time that the ICA3PP conference series added symposia and wo- shops to its program in order to provide a wide range of topics that extend beyond the main conferences. The goal was to provide a better coverage of emerging research areas and also forums for focused and stimulating discussions. With this objective in mind, we selected three workshops to accompany the ICA3PP 2010 conference: • FPDC 2010, the 2010 International Symposium on Frontiers of Parallel and Distributed Computing • HPCTA 2010, the 2010 International Workshop on High-Performance Computing, Technologies and Applications • M2A 2010, the 2010 International Workshop on Multicore and Mul- threaded Architectures and Algorithms Each of the symposia / workshops focused on a particular theme and complemented the spectrum of the main conference. All papers published in the workshops proce- ings were selected by the Program Committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, contribution, presentation and consistency with the theme of the workshops.

Algorithms and Architectures for Parallel Processing 7th International Conference, ICA3PP 2007, Hangzhou, China, June 11-14, 2007, Proceedings Springer This book constitutes the refereed proceedings of the 7th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2007, held in Hangzhou, China in June 2007. Focusing on two broad areas of parallel and distributed computing, the papers are organized in topical sections on parallel algorithms, parallel architecture, grid computing, peer-to-peer technologies, and advanced network technologies.

Algorithms and Architectures for Parallel Processing 14th International Conference, ICA3PP 2014, Dalian, China, August 24-27, 2014. Proceedings, Part I Springer This two volume set LNCS 8630 and 8631 constitutes the proceedings of the 14th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2014, held in Dalian, China, in August 2014. The 70 revised papers presented in the two volumes were selected from 285 submissions. The first volume comprises selected papers of the main conference and papers of the 1st International Workshop on Emerging Topics in Wireless and Mobile Computing, ETWMC 2014, the 5th International Workshop on Intelligent Communication Networks, IntelNet 2014, and the 5th International Workshop on Wireless Networks and Multimedia, WNM 2014. The second volume comprises selected papers of the main conference and papers of the Workshop on Computing, Communication and Control Technologies in Intelligent Transportation System, 3C in ITS 2014, and the Workshop on Security and Privacy in Computer and Network Systems, SPCNS 2014.

Algorithms and Architectures for Parallel Processing 20th International Conference, ICA3PP 2020, New York City, NY, USA, October 2-4, 2020, Proceedings, Part I Springer Nature This three-volume set LNCS 12452, 12453, and 12454

constitutes the proceedings of the 20th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2020, in New York City, NY, USA, in October 2020. The total of 142 full papers and 5 short papers included in this proceedings volumes was carefully reviewed and selected from 495 submissions. ICA3PP is covering the many dimensions of parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental projects, and commercial components and systems. As applications of computing systems have permeated in every aspects of daily life, the power of computing system has become increasingly critical. This conference provides a forum for academics and practitioners from countries around the world to exchange ideas for improving the efficiency, performance, reliability, security and interoperability of computing systems and applications. ICA3PP 2020 focus on two broad areas of parallel and distributed computing, i.e. architectures, algorithms and networks, and systems and applications. Network and Parallel Computing 15th IFIP WG 10.3 International Conference, NPC 2018, Muroran, Japan, November 29 - December 1, 2018, Proceedings Springer This book constitutes the proceedings of the 15th IFIP International Conference on Network and Parallel Computing, NPC 2018, held in Muroran, Japan, in November/December 2018. The 22 full and 12 short papers presented in this volume were carefully reviewed and selected from 72 submissions. The papers cover traditional areas of network and parallel computing, including parallel applications, distributed algorithms, parallel architectures, software environments, and distributed tools. Encyclopedia of Parallel Computing Springer Science & Business Media Containing over 300 entries in an A-Z format, the Encyclopedia of Parallel Computing provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The Encyclopedia is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searchers for immediate access to useful information. Key concepts presented in the Encyclopedia of Parallel Computing include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM's cell processor and Intel's multicore machines; race detection and auto parallelization; parallel programming languages,

synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems. Topics covered: Speedup, Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benchmarks, Parallel Programming concepts & design, Algorithms, Parallel applications. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research. Related Subjects: supercomputing, high-performance computing, distributed computing Dependability Engineering BoD - Books on Demand The new technology and system communication advances are being employed in any system, being more complex. The system dependability considers the technical complexity, size, and interdependency of the system. The stochastic characteristic together with the complexity of the systems as dependability requires to be under control the Reliability, Availability, Maintainability, and Safety (RAMS). The dependability contemplates, therefore, the faults/failures, downtimes, stoppages, worker errors, etc. Dependability also refers to emergent properties, i.e., properties generated indirectly from other systems by the system analyzed. Dependability, understood as general description of system performance, requires advanced analytics that are considered in this book. Dependability management and engineering are covered with case studies and best practices. The diversity of the issues will be covered from algorithms, mathematical models, and software engineering, by design methodologies and technical or practical solutions. This book intends to provide the reader with a comprehensive overview of the current state of the art, case studies, hardware and software solutions, analytics, and data science in dependability engineering. Languages and Compilers for Parallel Computing 15th Workshop, LCPC 2002, College Park, MD, USA, July 25-27, 2002, Revised Papers Springer Science & Business Media This book constitutes the thoroughly refereed post-proceedings of the 15th International Workshop on Languages and Compilers for Parallel Processing, LCPC 2002, held in College Park, MD, USA in July 2002. The 26 revised full papers presented were carefully selected during two rounds of reviewing and improvement from 32 submissions. All current issues in parallel processing are addressed, in particular memory-constrained computation, compiler optimization, performance studies, high-level languages, programming language consistency models, dynamic parallelization, parallelization of data mining algorithms, parallelizing compilers, garbage collection algorithms, and evaluation of iterative compilation. 2016 15th International Symposium on Parallel and Distributed Computing (ISPDC) Topics of interest of the ISPDC 2016 conference include, but are not limited to 1 System Architectures for Parallel and Distributed Computing 2 High Performance Computing and Large Scale Applications 3 Parallel Computing and Algorithms 4 Distributed and Embedded Computing 5 Interactivity 6 Cloud Computing 7 Performance Modeling, Management and Optimization Euro-Par 2003 Parallel Processing

9th International Euro-Par Conference, Klagenfurt, Austria, August 26-29, 2003 Proceedings Springer Euro-Par Conference Series The European Conference on Parallel Computing (Euro-Par) is an international conference series dedicated to the promotion and advancement of all aspects of parallel and distributed computing. The major themes fall into the categories of hardware, software, algorithms, and applications. This year, new and interesting topics were introduced, like Peer-to-Peer Computing, Distributed Multimedia stems, and Mobile and Ubiquitous Computing. For the first time, we organized a Demo Session showing many challenging applications. The general objective of Euro-Par is to provide a forum promoting the development of parallel and distributed computing both as an industrial technique and an academic discipline, extending the frontiers of both the state of the art and the state of the practice. The industrial importance of parallel and distributed computing is supported this year by a special Industrial Session as well as a vendors' exhibition. This is particularly important as currently parallel and distributed computing is evolving into a globally important technology; the buzzword Grid Computing clearly expresses this move. In addition, the trend to a mobile world is clearly visible in this year's Euro-Par.

The main audience for and participants at Euro-Par are researchers in academic departments, industrial organizations, and government laboratories. Euro-Par aims to become the primary choice of such professionals for the presentation of new results in their specific areas. Euro-Par has its own Internet domain with a permanent Web site where the history of the conference series is described: <http://www.euro-par.org>. The Euro-Par conference series is sponsored by the Association for Computer Machinery (ACM) and the International Federation for Information Processing (IFIP).

Parallel and Distributed Processing 15 IPDPS 2000 Workshops Cancun, Mexico, May 1-5, 2000 Proceedings Springer This volume contains the proceedings from the workshops held in conjunction with the IEEE International Parallel and Distributed Processing Symposium, IPDPS 2000, on 1-5 May 2000 in Cancun, Mexico. The workshops provide a forum for bringing together researchers, practitioners, and designers from various backgrounds to discuss the state of the art in parallelism. They focus on different aspects of parallelism, from runtime systems to formal methods, from optics to irregular problems, from biology to networks of personal computers, from embedded systems to programming environments; the following workshops are represented in this volume: { Workshop on Personal Computer Based Networks of Workstations { Workshop on Advances in Parallel and Distributed Computational Models { Workshop on Par. and Dist. Comp. in Image, Video, and Multimedia { Workshop on High-Level Parallel Prog. Models and Supportive Env. { Workshop on High Performance Data Mining { Workshop on Solving Irregularly Structured Problems in Parallel { Workshop on Java for Parallel and Distributed Computing { Workshop on Biologically Inspired Solutions to Parallel Processing Problems { Workshop on Parallel and Distributed Real-

Time Systems { Workshop on Embedded HPC Systems and Applications { Reconurable Architectures Workshop { Workshop on Formal Methods for Parallel Programming { Workshop on Optics and Computer Science { Workshop on Run-Time Systems for Parallel Programming { Workshop on Fault-Tolerant Parallel and Distributed Systems All papers published in the workshops proceedings were selected by the program committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, and consistency with the themes of the workshops.

Job Scheduling Strategies for Parallel Processing 15th International Workshop, JSSPP 2010, Atlanta, GA, USA, April 23, 2010, Revised Selected Papers Springer Science & Business Media This book constitutes the revised papers of the 15th International Workshop on Job Scheduling Strategies for Parallel Processing, JSSPP 2010, which was held in Atlanta, GA, USA, in April 2010. The 12 revised papers presented were carefully reviewed and selected from 18 submissions. The papers show a prolific growth in the areas of applicability for parallel scheduling and discuss more recent problems and applications, such as virtualized environments, many-core processors, DNA sequencing, and hadoop.

Algorithms and Architectures for Parallel Processing 16th International Conference, ICA3PP 2016, Granada, Spain, December 14-16, 2016, Proceedings Springer This book constitutes the refereed proceedings of the 16th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2016, held in Granada, Spain, in December 2016. The 30 full papers and 22 short papers presented were carefully reviewed and selected from 117 submissions. They cover many dimensions of parallel algorithms and architectures, encompassing fundamental theoretical approaches, practical experimental projects, and commercial components and systems trying to push beyond the limits of existing technologies, including experimental efforts, innovative systems, and investigations that identify weaknesses in existing parallel processing technology.

Advances in Computing Systems and Applications Proceedings of the 3rd Conference on Computing Systems and Applications Springer This book gathers selected papers presented at the 3rd Conference on Computing Systems and Applications (CSA'2018), held at the Ecole Militaire Polytechnique, Algiers, Algeria on April 24-25, 2018. The CSA'2018 constitutes a leading forum for exchanging, discussing and leveraging modern computer systems technology in such varied fields as: data science, computer networks and security, information systems and software engineering, and computer vision. The contributions presented here will help promote and advance the adoption of computer science technologies in industrial, entertainment, social, and everyday applications. Though primarily intended for students, researchers, engineers and practitioners working in the field, it will also benefit a wider audience interested in the latest developments in the computer sciences.

Algorithms - ESA '95 Third Annual European Symposium, Corfu, Greece, September, 25 - 27, 1995. Proceedings Springer Science & Business Media This book constitutes the

proceedings of the Third Annual European Symposium on Algorithms, ESA '95, held in Corfu, Greece in September 1995. The volume presents 42 full revised papers selected during a careful refereeing process from a total of 119 submissions; in addition, there is a prominent keynote address. This year, the scope has been further expanded to new areas of computational endeavour in science; the book covers many aspects of algorithms research and application ranging from combinatorial mathematics to hardware design. **Parallel Computing: Software Technology, Algorithms, Architectures & Applications Proceedings of the International Conference ParCo2003, Dresden, Germany Elsevier Advances in Parallel Computing series presents the theory and use of of parallel computer systems, including vector, pipeline, array, fifth and future generation computers and neural computers. This volume features original research work, as well as accounts on practical experience with and techniques for the use of parallel computers. Algorithms and Computation 17th International Symposium, ISAAC 2006, Kolkata, India, December 18-20, 2006, Proceedings Springer Science & Business Media This book constitutes the refereed proceedings of the 17th International Symposium on Algorithms and Computation, ISAAC 2006, held in Kolkata, India, December 2006. The 73 revised full papers cover algorithms and data structures, online algorithms, approximation algorithm, computational geometry, computational complexity, optimization and biology, combinatorial optimization and quantum computing, as well as distributed computing and cryptography. Euro-Par 2000 Parallel Processing 6th International Euro-Par Conference Munich, Germany, August 29 - September 1, 2000 Proceedings Springer Euro-Par - the European Conference on Parallel Computing - is an international conference series dedicated to the promotion and advancement of all aspects of parallel computing. The major themes can be divided into the broad categories of hardware, software, algorithms, and applications for parallel computing. The objective of Euro-Par is to provide a forum within which to promote the development of parallel computing both as an industrial technique and an academic discipline, extending the frontier of both the state of the art and the state of the practice. This is particularly important at a time when parallel computing is undergoing strong and sustained development and experiencing real industrial take up. The main audience for and participants of Euro-Par are seen as researchers in academic departments, government laboratories, and industrial organisations. Euro-Par's objective is to become the primary choice of such professionals for the presentation of new results in their specific areas. Euro-Par is also interested in applications that demonstrate the effectiveness of the main Euro-Par themes. Euro-Par now has its own Internet domain with a permanent Web site where the history of the conference series is described: <http://www.euro-par.org>. The Euro-Par conference series is sponsored by the Association of Computer Machinery and the International Federation of Information Processing. Automata, Languages and Programming 32nd International Colloquium,**

ICALP 2005, Lisbon, Portugal, July 11-15, 2005, Proceedings Springer The 32nd International Colloquium on Automata, Languages and Programming (ICALP 2005) was held in Lisbon, Portugal from July 11 to July 15, 2005. These proceedings contain all contributed papers presented at ICALP 2005, - getherwiththepapersbytheinvitedspeakersGiuseppeCastagna(ENS),Leonid Libkin (Toronto), John C. Mitchell (Stanford), Burkhard Monien (Paderborn), and Leslie Valiant (Harvard). The program had an additional invited lecture by Adi Shamir (Weizmann Institute) which does not appear in these proceedings. ICALP is a series of annual conferences of the European Association for Theoretical Computer Science (EATCS). The first ICALP took place in 1972. This year, the ICALP program consisted of the established track A (focusing on algorithms, automata, complexity and games) and track B (focusing on logic, semantics and theory of programming), and innovated on the structure of its traditional scientific program with the inauguration of a new track C (focusing on security and cryptography foundation). In response to a call for papers, the Program Committee received 407 submissions, 258 for track A, 75 for track B and 74 for track C. This is the highest number of submitted papers in the history of the ICALP conferences. The Program Committees selected 113 papers for inclusion in the scientific program. In particular, the Program Committee for track A selected 65 papers, the Program Committee for track B selected 24 papers, and the Program Committee for track C selected 24 papers. All the work of the Program Committees was done electronically.

Critical Approaches to Information Retrieval Research IGI Global Information retrieval (IR) is considered to be the science of searching for information from a variety of information sources related to texts, images, sounds, or multimedia. With the rise of the internet and digital databases, updated information retrieval methodologies are essential to ensure the continued facilitation and enhancement of information exchange. **Critical Approaches to Information Retrieval Research** is a critical scholarly publication that provides multidisciplinary examinations of theoretical innovations and methods in information retrieval technologies including search and storage applications for data, text, image, sound, document, and video retrieval. Featuring a wide range of topics including data mining, machine learning, and ontology, this book is ideal for librarians, software engineers, data scientists, professionals, researchers, information engineers, scientists, practitioners, and academicians working in the fields of computer science, information technology, information and communication sciences, education, health, library, and more.

Wireless Algorithms, Systems, and Applications 15th International Conference, WASA 2020, Qingdao, China, September 13-15, 2020, Proceedings, Part I Springer Nature The two-volume set LNCS 12385 + 12386 constitutes the proceedings of the 15th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2020, which was held during September 13-15, 2020. The conference was planned to take place in Qingdao, China; due to the COVID-19 pandemic it was held virtually. The 67 full and 14 short papers

presented in these proceedings were carefully reviewed and selected from 216 submissions. These submissions cover many hot research topics, including machine-learning algorithms for wireless systems and applications, Internet of Things (IoT) and related wireless solutions, wireless networking for cyber-physical systems (CPSs), security and privacy solutions for wireless applications, blockchain solutions for mobile applications, mobile edge computing, wireless sensor networks, distributed and localized algorithm design and analysis, wireless crowdsourcing, mobile cloud computing, vehicular networks, wireless solutions for smart cities, wireless algorithms for smart grids, mobile social networks, mobile system security, storage systems for mobile applications, etc. Euro-Par 2009 - Parallel Processing 15th International Euro-Par Conference, Delft, The Netherlands, August 25-28, 2009, Proceedings Springer Euro-Par is an annual series of international conferences dedicated to the promotion and the advancement of all aspects of parallel computing. In Euro-Par, the field of parallel computing is divided into the four broad categories of theory, high performance, cluster and grid, and distributed and mobile computing. These categories are further subdivided into 14 topics that focus on particular areas in parallel computing. The objective of Euro-Par is to provide a forum for promoting the development of parallel computing both as an industrial technique and as an academic discipline, extending the frontier of both the state of the art and the state of the practice. The target audience of Euro-Par consists of researchers in parallel computing in academic departments, government laboratories, and industrial organizations. Euro-Par 2009 was the 15th conference in the Euro-Par series, and was organized by the Parallel and Distributed Systems Group of Delft University of Technology in Delft, The Netherlands. The previous Euro-Par conferences took place in Stockholm, Lyon, Passau, Southampton, Toulouse, Munich, Manchester, Paderborn, Klagenfurt, Pisa, Lisbon, Dresden, Rennes, and Las Palmas de Gran Canaria. Next year, the conference will be held in Sorrento, Italy. More information on the Euro-Par conference series and organization is available on its website at <http://www.europar.org>. Parallel Computing Technologies 15th International Conference, PaCT 2019, Almaty, Kazakhstan, August 19-23, 2019, Proceedings Springer This book constitutes the proceedings of the 15th International Conference on Parallel Computing Technologies, PaCT 2019, held in Almaty, Kazakhstan, in August 2019. The 24 full papers and 10 short papers presented were carefully reviewed and selected from 72 submissions. The papers are organized in topical sections on Programming Languages and Execution Environments; Methods and Tools for Parallel Solution of Large-Scale Problems; Data Processing; Cellular Automata; and Distributed Algorithms. AI 2002: Advances in Artificial Intelligence 15th Australian Joint Conference on Artificial Intelligence, Canberra, Australia, December 2-6, 2002, Proceedings Springer This book constitutes the refereed proceedings of the 15th Australian Joint Conference on Artificial Intelligence, AI 2002, held in

Canberra, Australia in December 2002. The 62 revised full papers and 12 posters presented were carefully reviewed and selected from 117 submissions. The papers are organized in topical sections on natural language and information retrieval, knowledge representation and reasoning, deduction, learning theory, agents, intelligent systems. Bayesian reasoning and classification, evolutionary algorithms, neural networks, reinforcement learning, constraints and scheduling, neural network applications, satisfiability reasoning, machine learning applications, fuzzy reasoning, and case-based reasoning. PARLE '92, Parallel Architectures and Languages Europe 4th International PARLE Conference, Paris, France, June 15-18, 1992, Proceedings Springer Science & Business Media The 1992 Parallel Architectures and Languages Europe conference continues the tradition - of a wide and representative international meeting of specialists from academia and industry in theory, design, and application of parallel computer systems - set by the previous PARLE conferences held in Eindhoven in 1987, 1989, and 1991. This volume contains the 52 regular and 25 poster papers that were selected from 187 submitted papers for presentation and publication. In addition, five invited lectures are included. The regular papers are organized into sections on: implementation of parallel programs, graph theory, architecture, optimal algorithms, graph theory and performance, parallel software components, data base optimization and modeling, data parallelism, formal methods, systolic approach, functional programming, fine grain parallelism, Prolog, data flow systems, network efficiency, parallel algorithms, cache systems, implementation of parallel languages, parallel scheduling in data base systems, semantic models, parallel data base machines, and language semantics. Architecture of Computing Systems - ARCS 2020 33rd International Conference, Aachen, Germany, May 25-28, 2020, Proceedings Springer Nature This book constitutes the proceedings of the 33rd International Conference on Architecture of Computing Systems, ARCS 2020, held in Aachen, Germany, in May 2020.* The 12 full papers in this volume were carefully reviewed and selected from 33 submissions. 6 workshop papers are also included. ARCS has always been a conference attracting leading-edge research outcomes in Computer Architecture and Operating Systems, including a wide spectrum of topics ranging from embedded and real-time systems all the way to large-scale and parallel systems. The selected papers focus on concepts and tools for incorporating self-adaptation and self-organization mechanisms in high-performance computing systems. This includes upcoming approaches for runtime modifications at various abstraction levels, ranging from hardware changes to goal changes and their impact on architectures, technologies, and languages. *The conference was canceled due to the COVID-19 pandemic. Handbook of Nature-Inspired and Innovative Computing Integrating Classical Models with Emerging Technologies Springer Science & Business Media As computing devices proliferate, demand increases for an understanding of emerging computing paradigms and models based on

natural phenomena. Neural networks, evolution-based models, quantum computing, and DNA-based computing and simulations are all a necessary part of modern computing analysis and systems development. Vast literature exists on these new paradigms and their implications for a wide array of applications. This comprehensive handbook, the first of its kind to address the connection between nature-inspired and traditional computational paradigms, is a repository of case studies dealing with different problems in computing and solutions to these problems based on nature-inspired paradigms. The "Handbook of Nature-Inspired and Innovative Computing: Integrating Classical Models with Emerging Technologies" is an essential compilation of models, methods, and algorithms for researchers, professionals, and advanced-level students working in all areas of computer science, IT, biocomputing, and network engineering. *Parallel Computing Architectures, Algorithms, and Applications* IOS Press ParCo2007 marks a quarter of a century of the international conferences on parallel computing that started in Berlin in 1983. The aim of the conference is to give an overview of the developments, applications and future trends in high-performance computing for various platforms. *Algorithms and Computation 15th International Symposium, ISAAC 2004, Hong Kong, China, December 20-22, 2004, Proceedings* Springer Science & Business Media This book constitutes the refereed proceedings of the 15th International Symposium on Algorithms and Computation, ISAAC 2004, held in Hong Kong, China in December 2004. The 76 revised full papers presented were carefully reviewed and selected from 226 submissions. Among the topics addressed are computational geometry, graph computations, computational combinatorics, combinatorial optimization, computational complexity, scheduling, distributed algorithms, parallel algorithms, data structures, network optimization, randomized algorithms, and computational mathematics more generally. *Distributed Computing 18th International Conference, DISC 2004, Amsterdam, The Netherlands, October 4-8, 2004. Proceedings* Springer Science & Business Media This book constitutes the refereed proceedings of the 18th International Conference on Distributed Computing, DISC 2004, held in Amsterdam, The Netherlands, in October 2004. The 31 revised full papers presented together with an extended abstract of an invited lecture and an eulogy for Peter Ruzicka were carefully reviewed and selected from 142 submissions. The entire scope of current issues in distributed computing is addressed, ranging from foundational and theoretical topics to algorithms and systems issues to applications in various fields. *Algorithms and Computation 16th International Symposium, ISAAC 2005, Sanya, Hainan, China, December 19-21, 2005, Proceedings* Springer This book constitutes the refereed proceedings of the 16th International Symposium on Algorithms and Computation, ISAAC 2005, held in Sanya, Hainan, China in December 2005. The 112 revised full papers presented were carefully reviewed and selected from 549 submissions. The papers are organized in topical sections on

computational geometry, computational optimization, graph drawing and graph algorithms, computational complexity, approximation algorithms, internet algorithms, quantum computing and cryptography, data structure, computational biology, experimental algorithm methodologies and online algorithms, randomized algorithms, parallel and distributed algorithms, graph drawing and graph algorithms, computational complexity, combinatorial optimization, computational biology, computational complexity, computational optimization, computational geometry, approximation algorithms, graph drawing and graph algorithms, computational geometry, approximation algorithms, graph drawing and graph algorithms, and data structure. Algorithms and Architectures for Parallel Processing 17th International Conference, ICA3PP 2017, Helsinki, Finland, August 21-23, 2017, Proceedings Springer This book constitutes the proceedings of the 17th International Conference on Algorithms and Architectures for Parallel Processing, ICA3PP 2017, held in Helsinki, Finland, in August 2017. The 25 full papers presented were carefully reviewed and selected from 117 submissions. They cover topics such as parallel and distributed architectures; software systems and programming models; distributed and network-based computing; big data and its applications; parallel and distributed algorithms; applications of parallel and distributed computing; service dependability and security in distributed and parallel systems; service dependability and security in distributed and parallel systems; performance modeling and evaluation. This volume also includes 41 papers of four workshops, namely: the 4th International Workshop on Data, Text, Web, and Social Network Mining (DTWSM 2017), the 5th International Workshop on Parallelism in Bioinformatics (PBio 2017), the First International Workshop on Distributed Autonomous Computing in Smart City (DACSC 2017), and the Second International Workshop on Ultrascale Computing for Early Researchers (UCER 2017). Surveys in Combinatorial Optimization Elsevier A collection of papers surveying recent progress in the field of Combinatorial Optimization. Topics examined include theoretical and computational aspects (Boolean Programming, Probabilistic Analysis of Algorithms, Parallel Computer Models and Combinatorial Algorithms), well-known combinatorial problems (such as the Linear Assignment Problem, the Quadratic Assignment Problem, the Knapsack Problem and Steiner Problems in Graphs) and more applied problems (such as Network Synthesis and Dynamic Network Optimization, Single Facility Location Problems on Networks, the Vehicle Routing Problem and Scheduling Problems). Architecture of Computing Systems - ARCS 2009 22nd International Conference, Delft, The Netherlands, March 10-13, 2009, Proceedings Springer Science & Business Media The ARCS series of conferences has over 30 years of tradition reporting top-notch results in computer architecture and operating systems research. It is organized by the special interest group on "Computer and System Architecture" of the GI (Gesellschaft für Informatik e.V.) and ITG

(Informationstechnische Gesellschaft im VDE - Information Technology Society). In 2009, ARCS was hosted by the Delft University of Technology, which has one of the leading information technology schools in Europe. This year's special focus was set on energy awareness viewed from two different perspectives. Firstly, this deals with the improvement of computer systems to be as energy-efficient as possible (particularly for specific applications). One can think of heterogeneous multi-core architectures or reconfigurable architectures for this purpose. Secondly, this addresses the usage of computer systems to reduce the energy consumption of other systems, which might lead to problems of communication and cooperation. Like the previous conferences in this series, it continues to be an important forum for computer architecture research. The call for papers resulted in a total of 57 submissions from around the world. Each submission was assigned to at least three members of the Program Committee for review. The Program Committee decided to accept 21 papers, which are arranged into eight sessions. The accepted papers are from: Finland, France, Germany, Japan, The Netherlands, Singapore, Spain, UK, and USA. Three intriguing keynote notes from academia and industry complemented the strong technical program.