

Advanced Computing Lecture Notes In Computational Science

Algorithms and Theory of Computation Handbook
Advanced Computing and Analysis Techniques in Physics Research
Advanced Computer Architecture
Intelligent Computing Technology
Intelligent Computing Theories and Technology
Development of Component-based Information Systems
Advanced Computer and Communication Engineering Technology
Computing with Foresight and Industry
Provable Security
Kokuritsu Kokkai Toshokan shozō kagaku gijutsu kankei Ōbun kaigiroku mokuroku
Intelligent Computing Theories
Advanced Intelligent Computing Theories and Applications
Logics of Specification Languages
Computer Architecture and Security
Handbook of Research on Ubiquitous Computing Technology for Real Time Enterprises
Artificial Intelligence Techniques for Advanced Computing Applications
Advanced Technologies, Embedded and Multimedia for Human-centric Computing
Advanced Computing in Industrial Mathematics
Advanced Computer Architecture
Aerodynamic Analyses Requiring Advanced Computers
Advanced Computing Strategies for Engineering
Advanced Computing
Intelligent Computing Theories and Applications
Digital Universities V.1 (2014) -E-Government Diffusion, Policy, and Impact: Advanced Issues and Practices
Handbook of Research on Advanced Techniques in Diagnostic Imaging and Biomedical Applications
Progress in Advanced Computing and Intelligent Engineering
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The Right Career Moves Handbook
Second AIAA/NASA/USAF Symposium on Automation, Robotics and Advanced Computing for the National Space Program
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Course Notes
Computer Science and its Applications
New Computing Environments
Human Foundations of Advanced Computing Technology
Computing and Software Science

Algorithms and Theory of Computation Handbook

Advanced Computing and Analysis Techniques in Physics Research

"This book combines the fundamental methods, algorithms, and concepts of pervasive computing with current innovations and solutions to emerging challenges. It systemically covers such topics as network and application scalability, wireless network connectivity, adaptability and "context-aware" computing, information technology security and liability, and human-computer interaction"--Provided by publisher.

Advanced Computer Architecture

Intelligent Computing Technology

This book constitutes the refereed conference proceedings of the 9th International Conference on Intelligent Computing, ICIC 2013, held in Nanning, China, in July 2013. The 74 revised full papers presented were carefully reviewed and selected from numerous submissions and are organized in topical sections on neural networks, nature inspired computing and optimization, cognitive science and computational neuroscience, knowledge discovery and data mining, evolutionary learning and genetic algorithms machine learning theory and methods, natural language processing and computational linguistics, fuzzy theory and models, soft computing, unsupervised and reinforced learning, intelligent computing in finance, intelligent computing in petri nets, intelligent data fusion and information security, virtual reality and computer interaction, intelligent computing in pattern recognition, intelligent computing in image processing, intelligent computing in robotics, complex systems theory and methods.

Intelligent Computing Theories and Technology

This book features selected research papers presented at the International Conference on Advances in Information Communication Technology and Computing (AICTC 2019), held at the Government Engineering College Bikaner, Bikaner, India, on 8-9 November 2019. It covers ICT-based approaches in the areas ICT for energy efficiency, life cycle assessment of ICT, green IT, green information systems, environmental informatics, energy informatics, sustainable HCI and computational sustainability.

Development of Component-based Information Systems

The papers of this volume focus on the foundational aspects of computer science, the thematic origin and stronghold of LNCS, under the title “Computing and Software Science: State of the Art and Perspectives”. They are organized in two parts: The first part, Computation and Complexity, presents a collection of expository papers on fashionable themes in algorithmics, optimization, and complexity. The second part, Methods, Languages and Tools for Future System Development, aims at sketching the methodological evolution that helps guaranteeing that future systems meet their increasingly critical requirements. Chapter 3 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Advanced Computer and Communication Engineering Technology

"This book sheds light on how e-government technologies are shaping today's knowledge society from the ground roots of the citizen experience to the supreme level of policy and decision making"--Provided by publisher.

Computing with Foresight and Industry

This book gathers the peer-reviewed proceedings of the 12th Annual Meeting of the Bulgarian Section of the Society for Industrial and Applied Mathematics, BGSIAM'17, held in Sofia, Bulgaria, in December 2017. The general theme of BGSIAM'17 was industrial and applied mathematics, with a particular focus on: high-performance computing, numerical methods and algorithms, analysis of partial differential equations and their applications, mathematical biology, control and uncertain systems, stochastic models, molecular dynamics, neural networks, genetic algorithms, metaheuristics for optimization problems, generalized nets, and Big Data.

Provable Security

This book constitutes the refereed proceedings of the 8th International Conference on Intelligent Computing, ICIC 2012, held in Huangshan, China, in July 2012. The 85 revised full papers presented were carefully reviewed and selected from 753 submissions. The papers are organized in topical sections on neural networks, evolutionar learning and genetic algorithms, granular computing and rough sets, biology inspired computing and optimization, nature inspired computing and optimization, cognitive science and computational neuroscience, knowledge discovery and data mining, quantum computing, machine learning theory and methods, healthcare informatics theory and methods, biomedical informatics theory and methods, complex systems theory and methods, intelligent computing in signal processing, intelligent computing in image processing, intelligent computing in robotics, intelligent computing in computer vision, intelligent agent and web applications, special session on advances in information security 2012.

Kokuritsu Kokkai Toshokan shozō kagaku gijutsu kankei Ōbun kaigiroku mokuroku

This book constitutes the refereed proceedings of the 9th International Conference on Intelligent Computing, ICIC 2013, held in Nanning, China, in July 2013. The 79 revised full papers presented were carefully reviewed and selected from 561 submissions. The papers are organized in topical sections on systems biology and computational biology; cognitive science and computational neuroscience; knowledge discovery and data mining; machine learning theory and methods; biomedical informatics theory and methods; complex systems theory and methods; natural language processing and computational linguistics; fuzzy theory and models; fuzzy systems and soft computing; particle swarm optimization and niche technology; swarm intelligence and optimization; unsupervised and reinforcement learning; intelligent computing in bioinformatics;

intelligent computing in Petri nets/transportation systems; intelligent computing in social networking; intelligent computing in network software/hardware; intelligent control and automation; intelligent data fusion and information security; intelligent sensor networks; intelligent fault diagnosis; intelligent computing in signal processing; intelligent computing in pattern recognition; intelligent computing in biometrics recognition; intelligent computing in image processing; intelligent computing in computer vision; special session on biometrics system and security for intelligent computing; special session on bio-inspired computing and applications; special session on intelligent computing and personalized assisted living; computer human interaction using multiple visual cues and intelligent computing; and special session on protein and gene bioinformatics: analysis, algorithms and applications.

Intelligent Computing Theories

Advanced Intelligent Computing Theories and Applications

"This book includes state-of-the-art methodologies that introduce biomedical imaging in decision support systems and their applications in clinical practice"--Provided by publisher.

Logics of Specification Languages

Job seekers, at whatever stage in their careers, have never been faced with greater choice than today. It's never been more confusing either. This essential handbook aims to reduce the anxiety and help job hunters make the right moves and meet their career goals. Bursting with authoritative facts, information and advice on all aspects of the job hunting process, it is written in a clear accessible style. There's advice on finding the right job, creating a plan, writing a winning CV, making the grade at psychometric tests, how to interview well and even different industry profiles. It also assesses the current job climate, discusses pros and cons of the various options and suggests job-hunting strategies. An important book, it is the ultimate guide to negotiating the job search maze and getting that perfect job.

Computer Architecture and Security

EDITORIAL Culture and cultures: the world's thousands of versions compared to global modernization PEDAGOGY Massive Open Online Courses (MOOCs): education to change society? SCIENCE Massive Open Online Courses (MOOCs): education to change society? How modern technologies solve laboratory's dilemma in distance learning Instructional design of technical disciplines in the implementation of distance education in the Tula State University Simulation design of wireless

communications for digital universities in developing countries TECHNOLOGY PBL Working Environment: an expert system to learn the Problem-Based Learning pedagogy The responsive teaching/learning revolution: the impact of requests for the portability of services and contents for distance education on instructional models and technologies. BUSINESS Blended and online learning in a career service

Handbook of Research on Ubiquitous Computing Technology for Real Time Enterprises

In 1992 we initiated a research project on large scale distributed computing systems (LSDCS). It was a collaborative project involving research institutes and universities in Bologna, Grenoble, Lausanne, Lisbon, Rennes, Rocquencourt, Newcastle, and Twente. The World Wide Web had recently been developed at CERN, but its use was not yet as common place as it is today and graphical browsers had yet to be developed. It was clear to us (and to just about everyone else) that LSDCS comprising several thousands to millions of individual computer systems (nodes) would be coming into existence as a consequence both of technological advances and the demands placed by applications. We were excited about the problems of building large distributed systems, and felt that serious rethinking of many of the existing computational paradigms, algorithms, and structuring principles for distributed computing was called for. In our research proposal, we summarized the problem domain as follows: “We expect LSDCS to exhibit great diversity of node and communications capability. Nodes will range from (mobile) laptop computers, workstations to supercomputers. Whereas mobile computers may well have unreliable, low bandwidth communications to the rest of the system, other parts of the system may well possess high bandwidth communications capability. To appreciate the problems posed by the sheer scale of a system comprising thousands of nodes, we observe that such systems will be rarely functioning in their entirety.

Artificial Intelligence Techniques for Advanced Computing Applications

Advanced Technologies, Embedded and Multimedia for Human-centric Computing

This double volume set (LNAI 10863-10864) constitutes the refereed proceedings of the 25th International Workshop, EG-ICE 2018, held in Lausanne, Switzerland, in June 2018. The 58 papers presented in this volume were carefully reviewed and selected from 108 submissions. The papers are organized in topical sections on Advanced Computing in Engineering, Computer Supported Construction Management, Life-Cycle Design Support, Monitoring and Control Algorithms in Engineering, and BIM and Engineering Ontologies.

Advanced Computing in Industrial Mathematics

This book constitutes the first of 3 volumes of refereed conference proceedings of the 8th International Conference on Intelligent Computing, ICIC 2012, held in Huangshan, China, in July 2012. The 242 revised full papers presented were carefully reviewed and selected from 753 submissions. The 84 papers included in this volume are organized in topical sections on evolutionary learning and genetic algorithms, fuzzy theory and models, swarm intelligence and optimization, kernel methods and supporting vector machines, nature inspired computing and optimization, systems biology and computational biology, knowledge discovery and data mining, graph theory and algorithms, machine learning theory and methods, biomedical informatics theory and methods, complex systems theory and methods, pervasive/ubiquitous computing theory and methods, intelligent computing in bioinformatics, intelligent computing in pattern recognition, intelligent computing in image processing, intelligent computing in robotics, intelligent computing in computer vision, intelligent computing in Petri nets/transportation systems, intelligent data fusion and information security, intelligent sensor networks, knowledge representation/reasoning and expert systems, hybrid optimization, and bio-inspired computing and application.

Advanced Computer Architecture

The theme of HumanCom and EMC is focused on the various aspects of human-centric computing for advances in computer science and its applications, embedded and multimedia computing and provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of human-centric computing. And the theme of EMC (Advanced in Embedded and Multimedia Computing) is focused on the various aspects of embedded system, smart grid, cloud and multimedia computing, and it provides an opportunity for academic, industry professionals to discuss the latest issues and progress in the area of embedded and multimedia computing. Therefore this book will include the various theories and practical applications in human-centric computing and embedded and multimedia computing.

Aerodynamic Analyses Requiring Advanced Computers

The book gathers high-quality research papers presented at the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017). It includes technical sections describing progress in the fields of advanced computing and intelligent engineering, and is primarily intended for postgraduate students and researchers working in Computer Science and Engineering. However, researchers working in Electronics will also find the book useful, as it addresses hardware technologies and next-gen communication technologies.

Advanced Computing Strategies for Engineering

The first book to introduce computer architecture for security and provide the tools to implement secure computer systems
This book provides the fundamentals of computer architecture for security. It covers a wide range of computer hardware, system software and data concepts from a security perspective. It is essential for computer science and security professionals to understand both hardware and software security solutions to survive in the workplace. Examination of memory, CPU architecture and system implementation Discussion of computer buses and a dual-port bus interface Examples cover a board spectrum of hardware and software systems Design and implementation of a patent-pending secure computer system Includes the latest patent-pending technologies in architecture security Placement of computers in a security fulfilled network environment Co-authored by the inventor of the modern Computed Tomography (CT) scanner Provides website for lecture notes, security tools and latest updates

Advanced Computing

Intelligent Computing Theories and Applications

Annotation This work provides a comprehensive overview of research and practical issues relating to component-based information systems (CBIS). Spanning the organizational, developmental, and technical aspects of the subject, the original research included here provides fresh insights into successful CBIS technology and application, including the selection and trading of commercial off-the shelf products (COTS).

Digital Universities V.1 (2014) -

E-Government Diffusion, Policy, and Impact: Advanced Issues and Practices

This book covers diverse aspects of advanced computer and communication engineering, focusing specifically on industrial and manufacturing theory and applications of electronics, communications, computing and information technology. Experts in research, industry, and academia present the latest developments in technology, describe applications involving cutting-edge communication and computer systems and explore likely future directions. In addition, access is offered to numerous new algorithms that assist in solving computer and communication engineering problems. The book is based on presentations delivered at ICOCOE 2014, the 1st International Conference on Communication and Computer Engineering. It will appeal to a wide range of professionals in the field, including telecommunication engineers, computer engineers and scientists, researchers, academics and students.

Handbook of Research on Advanced Techniques in Diagnostic Imaging and Biomedical Applications

Algorithms and Theory of Computation Handbook is a comprehensive collection of algorithms and data structures that also covers many theoretical issues. It offers a balanced perspective that reflects the needs of practitioners, including emphasis on applications within discussions on theoretical issues. Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance, including graph drawing, robotics, forming a VLSI chip, vision and image processing, data compression, and cryptography. The book also presents some advanced topics in combinatorial optimization and parallel/distributed computing. • applications areas where algorithms and data structuring techniques are of special importance • graph drawing • robot algorithms • VLSI layout • vision and image processing algorithms • scheduling • electronic cash • data compression • dynamic graph algorithms • on-line algorithms • multidimensional data structures • cryptography • advanced topics in combinatorial optimization and parallel/distributed computing

Progress in Advanced Computing and Intelligent Engineering

This book constitutes the refereed proceedings of the 15th Conference on Computability in Europe, CiE 2019, held in Durham, UK, in July 2019. The 20 revised full papers presented were carefully reviewed and selected from 35 submissions. In addition, this volume includes 7 invited papers. The conference CiE 2018 had the following six special sessions: computational neuroscience, history and philosophy of computing, lowness notions in computability, probabilistic programming and higher-order computation, smoothed and probabilistic analysis of algorithms, and transitive computations.

Advances in Distributed Systems

Computer Algebra in Scientific Computing

The 6th FTRA International Conference on Computer Science and its Applications (CSA-14) will be held in Guam, USA, Dec. 17 - 19, 2014. CSA-14 presents a comprehensive conference focused on the various aspects of advances in engineering systems in computer science, and applications, including ubiquitous computing, U-Health care system, Big Data, UI/UX for human-centric computing, Computing Service, Bioinformatics and Bio-Inspired Computing and will show recent advances on various aspects of computing technology, Ubiquitous Computing Services and its application.

Advances in Information Communication Technology and Computing

This double volume set (LNAI 10863-10864) constitutes the refereed proceedings of the 25th International Workshop, EG-ICE 2018, held in Lausanne, Switzerland, in June 2018. The 58 papers presented in this volume were carefully reviewed and selected from 108 submissions. The papers are organized in topical sections on Advanced Computing in Engineering, Computer Supported Construction Management, Life-Cycle Design Support, Monitoring and Control Algorithms in Engineering, and BIM and Engineering Ontologies.

Advanced Computing Strategies for Engineering

The book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. This two volume book contains the Proceedings of International Conference on Advanced Computing and Intelligent Engineering. These volumes bring together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

The Right Career Moves Handbook

This book constitutes the refereed proceedings of the 21st International Workshop on Computer Algebra in Scientific Computing, CASC 2019, held in Moscow, Russia, in August 2019. The 28 full papers presented together with 2 invited talks were carefully reviewed and selected from 44 submissions. They deal with cutting-edge research in all major disciplines of computer algebra. The papers cover topics such as polynomial algebra, symbolic and symbolic-numerical computation, applications of symbolic computation for investigating and solving ordinary differential equations, applications of CASs in the investigation and solution of celestial mechanics problems, and in mechanics, physics, and robotics.

Second AIAA/NASA/USAF Symposium on Automation, Robotics and Advanced Computing for the National Space Program

The third International Conference on Provable Security (ProvSec 2009) was held in Guangzhou, China, November 11-13, 2009. It continued the theme of ProvableSecurity initiated by the ProvSec2007 conference in Wollongong, Australia. The second ProvSec conference was organized in Shanghai, China. The conference was sponsored by the Center for Advanced Computing - Cryptography and Algorithms (ACAC), Macquarie University, Australia; Guangdong Key Laboratory of

Information Security Technology, Sun Yat-sen University, China; and the National Natural Science Foundation of China (NSFC). Ji Wu Huang was the General Chair and we, Josef Pieprzyk and Fangguo Zhang, were Program Co-chairs. The conference proceedings have been published by Springer in this volume of Lecture Notes in Computer Science. The Program Committee invited two distinguished researchers to deliver their keynote talks. The first speaker was Alex Dent from Royal Holloway, University of London. His talk was entitled "A Brief History of Security Models for Confidentiality". The second speaker was Bogdan Warinschi from the University of Bristol, UK, who presented a talk on "Symbolic Methods for Provable Security". We received 64 papers. Each paper was assigned to three referees. Papers submitted by the members of the Program Committee were assigned to five referees. In the first stage of the review process, the submitted papers were read and evaluated by the PC members and then in the second stage, the papers were scrutinized during an extensive discussion. Finally, the Program Committee chose 19 papers to be included in the conference program. The authors of the accepted papers had three weeks for revision and preparation of final versions.

Progress in Advanced Computing and Intelligent Engineering

Utilizing Information Technology Systems Across Disciplines: Advancements in the Application of Computer Science

Provides original material concerned with all aspects of information resources management, managerial and organizational applications, as well as implications of information technology.

Course Notes

Computer Science and its Applications

This book presents comprehensive studies on nine specification languages and their logics of reasoning. The editors and authors are authorities on these specification languages and their application. In a unique feature, the book closes with short commentaries on the specification languages written by researchers closely associated with their original development. The book contains extensive references and pointers to future developments.

New Computing Environments

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Intelligent Computing, ICIC 2011, held in Zhengzhou, China, in August 2011. The 94 revised full papers presented were carefully reviewed and selected from 832 submissions. The papers are organized in topical sections on intelligent computing in scheduling; local feature descriptors for image processing and recognition; combinatorial and numerical optimization; machine learning theory and methods; intelligent control and automation; knowledge representation/reasoning and expert systems; intelligent computing in pattern recognition; intelligent computing in image processing; intelligent computing in computer vision; biometrics with applications to individual security/forensic sciences; modeling, theory, and applications of positive systems; sparse manifold learning methods and applications; advances in intelligent information processing.

Human Foundations of Advanced Computing Technology

Over the next decade or two, an impressive array of scientific instruments at the Tevatron, RHIC (Relativistic Heavy Ion Collider) and LHC (Large Hadron collider), LIGO (Laser Interferometer Gravitational Observatory) and SDSS (Sloan Digital Sky Survey), to name a few, will usher in the most comprehensive program of study of the fundamental forces of nature and the structure of the universe. Major discoveries are anticipated. But, it is our conviction that the pace of discoveries will be severely impeded unless a concerted effort is made to deploy and employ advanced computing techniques to handle, process and analyze the unprecedented amounts of data. The workshop followed four main tracks: Artificial Intelligence (neural networks and other adaptive multivariate methods); Innovative Software Algorithms and Tools; Symbolic Problem Solving; and Very Large Scale Computing. The workshop covered applications in high energy physics, astrophysics, accelerator physics and nuclear physics. Topics included are: uses of C++ in scientific computing, large scale simulations, advanced analysis environments, worldwide computing; artificial intelligence: online application of neural networks, applications in data analysis, theoretical aspects innovative software algorithms and tools: online monitoring and controls, physics analysis and reconstruction algorithms, pattern recognition techniques, common libraries, grid and distributed computing techniques; symbolic problem solving: Feynman diagram algorithms and tools, symbolic manipulation via function objects, symbolic techniques for Feynman diagrams, multi-loop calculations and results. very large scale computing: online monitoring and controls, analysis farms and DAQ systems, grid architectures

Computing and Software Science

This proceedings volume collects review articles that summarize research conducted at the Munich Centre of Advanced Computing (MAC) from 2008 to 2012. The articles address the increasing gap between what should be possible in Computational Science and Engineering due to recent advances in algorithms, hardware, and networks, and what can

actually be achieved in practice; they also examine novel computing architectures, where computation itself is a multifaceted process, with hardware awareness or ubiquitous parallelism due to many-core systems being just two of the challenges faced. Topics cover both the methodological aspects of advanced computing (algorithms, parallel computing, data exploration, software engineering) and cutting-edge applications from the fields of chemistry, the geosciences, civil and mechanical engineering, etc., reflecting the highly interdisciplinary nature of the Munich Centre of Advanced Computing.

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