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SCIENCE AND ENGINEERING

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Advanced Computing Lecture Notes In Computational Science And Engineering

**Rabindra Nath Shaw, Sanjoy
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Advanced Computing Michael Bader, Hans-Joachim Bungartz, Tobias Weinzierl, 2013-09-26 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. Advances in Computer Science for Engineering and Education VII Zhengbing Hu, Felix Yanovsky, Ivan Dychka, Matthew He, 2025-04-02 The book contains high quality refereed research papers presented at the 7th International Conference on Computer Science Engineering and Education Applications ICCSEEA2024 which took place in Kyiv, Ukraine on April 27-28, 2024 and was organized by the National Technical University of Ukraine Igor Sikorsky Kyiv Polytechnic Institute, the National Aviation University, Lviv Polytechnic National University, Kharkiv National University of Radio Electronics, Wuhan University of Technology, Polish Operational and Systems Society, and the International Research Association of Modern Education and Computer Science. The book covers a variety of topics including cutting edge research in computer science, artificial intelligence, engineering techniques, smart logistics, and knowledge representation with educational applications. The book is an invaluable resource for academics, graduate students, engineers, management professionals, and undergraduate students who are interested in computer science and its applications in engineering and education. Numerical Solution of Partial Differential Equations on Parallel Computers Are Magnus Bruaset, Aslak Tveito, 2006-03-05 Since the dawn of computing, the quest for a better understanding of Nature has been a driving force for technological development. Groundbreaking achievements by great scientists have paved the way from the abacus to the supercomputing power of today. When trying to replicate Nature in the computer's silicon test tube, there is a need for precise and computable process descriptions. The scientific fields of Mathematics and Physics provide a powerful vehicle for such descriptions in terms of Partial Differential Equations (PDEs). Formulated as such, equations (physical laws) can become subject to computational and analytical studies. In the computational setting, the equations can be discretized for efficient solution on a computer, leading to valuable tools for simulation of natural and man-made processes. Numerical solution of PDE-based mathematical models has been an important research topic over centuries and will remain so for centuries to come. In the context of computer-based simulations, the quality of the computed results is directly connected to the model's complexity and the number of data points used for the computations. Therefore

computational scientists tend to use even the largest and most powerful computers they can get access to either by increasing the size of the data sets or by introducing new model terms that make the simulations more realistic or a combination of both. Today many important simulation problems can not be solved by one single computer but calls for parallel computing.

Advanced Computing and Intelligent Technologies Monica Bianchini, Vincenzo Piuri, Sanjoy Das, Rabindra Nath Shaw, 2021-07-21 This book gathers selected high quality research papers presented at International Conference on Advanced Computing and Intelligent Technologies ICACIT 2021 held at NCR New Delhi India during March 20-21 2021 jointly organized by Galgotias University India and Department of Information Engineering and Mathematics University of Siena Italy. It discusses emerging topics pertaining to advanced computing intelligent technologies and networks including AI and machine learning data mining big data analytics high performance computing network performance analysis Internet of things networks wireless sensor networks and others. The book offers a valuable asset for researchers from both academia and industries involved in advanced studies.

Advanced Computing and Intelligent Technologies Rabindra Nath Shaw, Sanjoy Das, Vincenzo Piuri, Monica Bianchini, 2022-08-30 This book gathers selected high quality research papers presented at International Conference on Advanced Computing and Intelligent Technologies ICACIT 2022 held at BIHER Chennai India during March 12-13 2022 jointly organized by Institute of Higher Education and Research Chennai 600073 Indira Gandhi National Tribal University Regional Campus Manipal India and Department of Information Engineering and Mathematics University of Siena Italy. It discusses emerging topics pertaining to advanced computing intelligent technologies and networks including AI and machine learning data mining big data analytics high performance computing network performance analysis Internet of things networks wireless sensor networks and others. The book offers a valuable asset for researchers from both academia and industries involved in advanced studies.

Research Methods: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2015-01-31 Across a variety of disciplines data and statistics form the backbone of knowledge. To ensure the reliability and validity of data appropriate measures must be taken in conducting studies and reporting findings. Research Methods: Concepts, Methodologies, Tools, and Applications compiles chapters on key considerations in the management development and distribution of data. With its focus on both fundamental concepts and advanced topics this multi-volume reference work will be a valuable addition to researchers scholars and students of science mathematics and engineering.

Real Life Applications of Soft Computing Anupam Shukla, Ritu Tiwari, Rahul Kala, 2010-05-21 Rapid advancements in the application of soft computing tools and techniques have proven valuable in the development of highly scalable systems and resulted in brilliant applications including those in biometric identification interactive voice response systems and data mining. Although many resources on the subject adequately cover the theoretical

Cyber Security, Forensics and National Security Vinay Aseri, Sumit Kumar Choudhary, Adarsh Kumar, 2025-10-15 The book serves two very important purposes. Firstly the concept of vulnerabilities due

to cyberattacks in all walks of lives are explained along with how to detect and reduce the risk through digital forensics. Secondly, the book describes how such threats at a larger scale can threaten national security. This book discusses for the first time various dimensions of national security, the risks involved due to cyber threats, and ultimately the detection and prevention of cyber threats through cyber forensics and cybersecurity architectures. This book empowers readers with a deep comprehension of the various cyber threats targeting nations, businesses, and individuals, allowing them to recognize and respond to these threats effectively. It provides a comprehensive guide to digital investigation techniques, including evidence collection, analysis, and presentation in a legal context, addressing a vital need for cybersecurity professionals and law enforcement. The book navigates the complex legal and policy considerations surrounding cybercrime and national security, ensuring readers are well-versed in compliance and ethical aspects. The primary purpose of *Cybersecurity Forensics and National Security* is to fill a critical gap in the realm of literature on cybersecurity, digital forensics, and their nexus with national security. The need for this resource arises from the escalating threats posed by cyberattacks, espionage, and other digital crimes, which demand a comprehensive understanding of how to investigate, respond to, and prevent such incidents.

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4. The book explores cutting-edge technologies in the field of digital forensics and national security, leveraging computational intelligence for enhanced reliability, engineering, sustainable practices, and more.

Proceedings of Fifth Doctoral Symposium on Computational Intelligence

Abhishek Swaroop, Vineet Kansal, Giancarlo Fortino, Aboul Ella Hassanien, 2024-11-29. This book features high-quality research papers presented at the Fifth Doctoral Symposium on Computational Intelligence (DoSCI 2024), jointly organised by the Institute of Engineering Technology, Lucknow, India, and the School of Open Learning, University of Delhi, in association with the University of Calabria, Italy, on May 10, 2024. This book discusses topics such as computational intelligence, artificial intelligence, deep learning, evolutionary algorithms, swarm intelligence, fuzzy sets, and vague sets, rough set theoretic approaches, quantum-inspired computational intelligence, hybrid computational intelligence, machine learning, computer vision, soft computing, distributed computing, parallel and grid computing, cloud computing, high-performance computing, biomedical computing, and decision support and decision making.

Advanced Computing and Communication Technologies Ramesh K.

Choudhary, Jyotsna Kumar Mandal, Dhananjay Bhattacharyya, 2017-10-24. This volume contains selected papers presented at the 10th International Conference on Advanced Computing and Communication Technologies (10th ICACCT 2016), technically

sponsored by Institution of Electronics and Telecommunication Engineers India held during 18-20 November 2016 at Asia Pacific Institute of Information Technology Panipat India. The volume reports latest research on a wide range of topics spanning theory, system applications and case studies in the fields of computing and communication technologies. Topics covered are robotics, computational intelligence encompassing fuzzy logic, neural networks, GA and evolutionary computing, applications, knowledge representation, data encryption, distributed computing, data analytics and visualization, knowledge representation, wireless sensor networks, MEM sensor design, analog circuit, statistical machine translation, cellular automata and antenna design. The volume has 31 chapters including an invited paper on swarm robotics, grouped into three parts viz. Advanced Computing, Communication Technologies and Micro Electronics and Antenna Design. The volume is directed to researchers and practitioners aspiring to solve practical issues, particularly applications of the theories of computational intelligence using recent advances in computing and communication technologies.

Handbook of Research on the Role of Human Factors in IT Project Management Misra, Sanjay, Adewumi, Adewole, 2019-09-27. The role humans play in the field of information technology continues to hold relevance even with the industry's rapid growth. People contribute heavily to the physical, cognitive and organizational domain of computing yet there is a lack of exploration into this phenomenon. Humanoid aspects of technology require extensive research in order to avoid marginalization and insufficient data. The Handbook of Research on the Role of Human Factors in IT Project Management is a collection of innovative research on the methods and applications of the task of human characteristics in the design and development of new technology. While highlighting topics including digitalization, risk management and task analysis, this book is ideally designed for IT professionals, managers, support executives, project managers, managing directors, academicians, researchers and students seeking current research on the dynamics of human influence in technological projects.

Handbook of Research on AI-Equipped IoT Applications in High-Tech Agriculture Khang, Alex, 2023-08-02. The agriculture industry is facing significant challenges in meeting the increasing demand for food while also ensuring sustainable development. Traditional agricultural methods are not equipped to meet the demands of the modern world. To overcome these challenges, Advanced Technologies and AI-Equipped IoT Applications in High Tech Agriculture provides an in-depth analysis of the opportunities and challenges for AI-powered management tools and IoT-equipped techniques for the high-tech agricultural ecosystem. The Handbook of Research on AI-Equipped IoT Applications in High Tech Agriculture explores advanced methodologies, models, techniques, technologies and applications along with the concepts of real-time supporting systems to help agricultural producers adjust plans or schedules for taking care of their farms. Additionally, it discusses the role of IoT technologies and AI applications in agricultural ecosystems and their potential to improve product quality and market competitiveness. The book includes discussions on the application of blockchain, biotechnology, drones, robotics, data analytics and visualization in high-tech agriculture. It is an essential reference for anyone interested in the future of high-tech agriculture, including agricultural analysts, investment

analysts scholars researchers academics professionals engineers and students Advances in Networked-Based Information Systems Leonard Barolli, Kin Fun Li, Tomoya Enokido, Makoto Takizawa, 2020-08-19 This book aims to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and their applications The networks and information systems of today are evolving rapidly There are new trends and applications in information networking such as wireless sensor networks ad hoc networks peer to peer systems vehicular networks opportunistic networks grid and cloud computing pervasive and ubiquitous computing multimedia systems security multi agent systems high speed networks and web based systems These kinds of networks need to manage the increasing number of users provide support for different services guarantee the QoS and optimize the network resources For these networks there are many research issues and challenges that should be considered and find solutions **Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles **Advanced Computing and Systems for Security: Volume 13** Rituparna Chaki, Nabendu Chaki, Agostino Cortesi, Khalid Saeed, 2021-11-03 This book features extended versions of selected papers that were presented and discussed at the 8th International Doctoral Symposium on Applied Computation and Security Systems ACSS 2021 held in Kolkata India on April 9 10 2021 Organized by the Departments of Computer Science Engineering and A K Choudhury School of Information Technology at the University of Calcutta the symposium's international partners were Ca Foscari University of Venice Italy and Bialystok University of Technology Poland The topics covered include biometrics image processing pattern recognition algorithms cloud computing wireless sensor networks and security systems reflecting the various symposium sessions Text as Data Barry DeVille, Gurpreet Singh Bawa, 2021-10-05 Text As Data Combining qualitative and quantitative algorithms within the SAS system for accurate effective and understandable text analytics The need for powerful accurate and increasingly automatic text analysis software in modern information technology has dramatically increased Fields as diverse as financial management fraud and cybercrime prevention Pharmaceutical R D social media marketing customer care and health services are implementing more comprehensive text inclusive analytics strategies Text as Data Computational Methods of Understanding Written Expression Using SAS presents an overview of text analytics and the critical role SAS software plays in combining linguistic and quantitative algorithms in the evolution of this dynamic field Drawing on over two decades of experience in text analytics authors Barry deVille and Gurpreet Singh Bawa examine the evolution of text mining and cloud based solutions and the development of SAS Visual Text Analytics By integrating quantitative data and textual analysis with advanced computer learning principles the authors demonstrate the combined advantages of SAS compared to standard approaches and show how approaching text as qualitative data within a quantitative analytics framework produces more detailed accurate and explanatory results Understand the role of linguistics machine learning and multiple data sources in the text analytics workflow Understand how a range of quantitative algorithms

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Muda,2015-12-14 This Volume contains the papers presented during the 6th International Conference on Innovations in Bio Inspired Computing and Applications IBICA 2015 which was held in Kochi India during December 16 18 2015 The 51 papers presented in this Volume were carefully reviewed and selected The 6th International Conference IBICA 2015 has been organized to discuss the state of the art as well as to address various issues in the growing research field of Bio inspired Computing which is currently one of the most exciting research areas and is continuously demonstrating exceptional strength in solving complex real life problems The Volume will be a valuable reference to researchers students and practitioners in the computational intelligence field *Encyclopedia of Information Science and Technology, Third Edition* Khosrow-Pour, D.B.A., Mehdi,2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher

Robotics and Automation in Industry 4.0 Nidhi Sindhwani,Rohit Anand,A. George,Digvijay Pandey,2024-02-09 The book presents the innovative aspects of smart industries and intelligent technologies involving Robotics and Automation It discusses the challenges in the design of autonomous robots and provides an understanding of how different systems communicate with each other allowing cooperation with other human systems and operators in real time Robotics and Automation in Industry 4 0 Smart Industries and Intelligent Technologies offers research articles flow charts algorithms and examples based on daily life in automation and robotics related to the building of Industry 4 0 It presents disruptive technology applications related to Smart Industries and talks about how robotics is an important Industry 4 0 technology that offers a wide range of capabilities and has improved automation systems by doing repetitive tasks with more accuracy and at a lower cost The book discusses how frontline healthcare staff can evaluate monitor and treat patients from a safe distance by using robotic and telerobotic systems to minimize the risk of infectious disease transmission Artificial intelligence AI and

machine learning ML are looked at and the book offers a comprehensive overview of the key challenges surrounding the Internet of Things IoT and AI synergy including current and future applications with significant societal value An ideal read for scientists research scholars entrepreneurs industrialists academicians and various other professionals who are interested in exploring innovations in the applicational areas of AI IoT and ML related to Robotics and Automation **Innovative Computing and Communications** Aboul Ella Hassanien, Sameer Anand, Ajay Jaiswal, Prabhat Kumar, 2024-07-23 This book includes high quality research papers presented at the Seventh International Conference on Innovative Computing and Communication ICICC 2024 which is held at the Shaheed Sukhdev College of Business Studies University of Delhi Delhi India on 16 17 February 2024 Introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

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