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International Conference on Computing, Communication, Electrical and Biomedical Systems - Arulmurugan Ramu 2022-02-28

This book presents selected papers from the International Conference on Computing, Communication, Electrical and Biomedical Systems (ICCCEBS 2021), held in March 2021 at KPR College of Engineering and Technology, Coimbatore, Tamil Nadu, India. The conference explores the interface between industry and real-time environments with newly developed techniques in computing and communications engineering. The papers describe results of conceptual, constructive, empirical, experimental, and theoretical work in areas of computing, communication, electrical, and biomedical systems. Contributors include academic scientists, researchers, industry representatives, postdoctoral fellows, and research scholars from around the world.

Applied Mechanics Reviews - 1992

Community and Climate Resilience in the Semi-Arid Tropics - S. P. Wani
2020-01-22

This book focuses on developing an integrated holistic approach for harnessing the potential of rain-fed agriculture. In this approach, rainwater management through harvesting and recharging the groundwater is used as an entry point activity for increasing the productivity for farmers through enhanced water use efficiency. To provide the holistic and integrated solutions, the approach of consortium through building partnerships with different stakeholders, eg. different research institutions (State, National and International), development departments, eg. Department of Agriculture, Department of Animal Husbandry etc., Non-Government Organizations (NGOs), Farmers Organizations Community-based Organizations (CBOs) along with market linkages through private companies.

Network Management and Security - International Engineering Consortium 2006

A thorough, detailed look into the world of the telecommunications, the internet, and information industries and their relation to networks and security, global specialists have come together in this volume to reveal their ideas on related topics. This reference includes notable discussions on the

design of telecommunications networks, information management, network inventory, security policy and quality, and internet tomography and statistics.
Mathematical Reviews - 2005

Advances in Computing and Information Technology - Natarajan Meghanathan 2012-08-11

The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes.

Index to IEEE Publications - Institute of Electrical and Electronics Engineers 1996

Issues for 1973- cover the entire IEEE technical literature.

Cell Type Diversity in the Nervous System: From Genes to Function - Miao He 2022-02-04

Soft Computing: Theories and Applications - Millie Pant 2020-06-29

This book focuses on soft computing and how it can be applied to solve real-

world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2019), organized by the National Institute of Technology Patna, India. Offering valuable insights into soft computing for teachers and researchers alike, the book will inspire further research in this dynamic field.

Proceedings of International Symposium on Sensor Networks, Systems and Security - Nageswara S.V. Rao 2018-05-23

This book presents current trends that are dominating technology and society, including privacy, high performance computing in the cloud, networking and IoT, and bioinformatics. By providing chapters detailing accessible descriptions of the research frontiers in each of these domains, the reader is provided with a unique understanding of what is currently feasible. Readers are also given a vision of what these technologies can be expected to produce in the near future. The topics are covered comprehensively by experts in respective areas. Each section includes an overview that puts the research topics in perspective and integrates the sections into an overview of how technology is evolving. The book represents the proceedings of the International Symposium on Sensor Networks, Systems and Security, August 31 – September 2, 2017, Lakeland Florida.

Biology, Physiology and Molecular Biology of Weeds - Mithila Jugulam 2017-07-12

The book provides comprehensive information on a wide range of topics from biology, physiology, genetics to the use of genomic tools in weed science. The book covers information at a more advanced level than the previously published books in weed science. It covers not only weed genetics and genomics research, but also weed management from an ecological perspective. Furthermore, the book also gives a broad coverage of novel mechanisms of

weed resistance to herbicides. More importantly, it includes next generation sequencing techniques and bioinformatics of herbicide resistant genes in weeds.

Machine Learning for Robotics Applications - Monica Bianchini 2021-04-23

Machine learning has become one of the most prevalent topics in recent years. The application of machine learning we see today is a tip of the iceberg. The machine learning revolution has just started to roll out. It is becoming an integral part of all modern electronic devices. Applications in automation areas like automotive, security and surveillance, augmented reality, smart home, retail automation and healthcare are few of them. Robotics is also rising to dominate the automated world. The future applications of machine learning in the robotics area are still undiscovered to the common readers. We are, therefore, putting an effort to write this edited book on the future applications of machine learning on robotics where several applications have been included in separate chapters. The content of the book is technical. It has been tried to cover all possible application areas of Robotics using machine learning. This book will provide the future vision on the unexplored areas of applications of Robotics using machine learning. The ideas to be presented in this book are backed up by original research results. The chapter provided here in-depth look with all necessary theory and mathematical calculations. It will be perfect for laymen and developers as it will combine both advanced and introductory material to form an argument for what machine learning could achieve in the future. It will provide a vision on future areas of application and their approach in detail. Therefore, this book will be immensely beneficial for the academicians, researchers and industry project managers to develop their new project and thereby beneficial for mankind. Original research and review works with model and build Robotics applications using Machine learning are included as chapters in this book.

Surveying: Theory and Practice - James M Anderson 1998

Drawing accurate topographical plans is a major part of field archaeology and standards need to be right up to the level of civil engineers. This is the standard text for all professionals, updated to incorporate the latest advances in legislation and technology (especially the growth of Global Positioning System (GPS) precision).

Data Mining - Mehmed Kantardzic 2019-10-23

Presents the latest techniques for analyzing and extracting information from large amounts of data in high-dimensional data spaces The revised and updated third edition of Data Mining contains in one volume an introduction to a systematic approach to the analysis of large data sets that integrates results from disciplines such as statistics, artificial intelligence, data bases, pattern recognition, and computer visualization. Advances in deep learning technology have opened an entire new spectrum of applications. The author—a noted expert on the topic—explains the basic concepts, models, and methodologies that have been developed in recent years. This new edition introduces and expands on many topics, as well as providing revised sections on software tools and data mining applications. Additional changes include an updated list of references for further study, and an extended list of problems and questions that relate to each chapter. This third edition presents new and expanded information that:

- Explores big data and cloud computing
- Examines deep learning
- Includes information on convolutional neural networks (CNN)
- Offers reinforcement learning
- Contains semi-supervised learning and S3VM
- Reviews model evaluation for unbalanced data

Written for graduate students in computer science, computer engineers, and computer information systems professionals, the updated third edition of Data Mining continues to provide an essential guide to the basic principles of the technology and the most recent developments in the field.

Network and System Security - Zheng Yan 2017-08-11

This book constitutes the proceedings of the 11th International Conference on

Network and System Security, NSS 2017, held in Helsinki, Finland, in August 2017. The 24 revised full papers presented in this book were carefully reviewed and selected from 83 initial submissions. The papers are organized in topical sections on Cloud and IoT Security; Network Security; Platform and Hardware Security; Crypto and Others; and Authentication and Key Management. This volume also contains 35 contributions of the following workshops: Security Measurements of Cyber Networks (SMCN-2017); Security in Big Data (SECBD-2017); 5G Security and Machine Learning (IW5GS-2017); of the Internet of Everything (SECIOE-2017).

Fourth Survey of Research in Geography - Gurudev Singh Gosal 1999
Contributed reviews of various aspects of India's geographical researches conducted/published during the period 1976-82.

Proceedings of Second International Conference on Sustainable Expert Systems - Subarna Shakya 2022-02-26

This book features high-quality research papers presented at the 2nd International Conference on Sustainable Expert Systems (ICESES 2021), held in Nepal during September 17–18, 2021. The book focusses on the research information related to artificial intelligence, sustainability, and expert systems applied in almost all the areas of industries, government sectors, and educational institutions worldwide. The main thrust of the book is to publish the conference papers that deal with the design, implementation, development, testing, and management of intelligent and sustainable expert systems and also to provide both theoretical and practical guidelines for the deployment of these systems.

Bulletin of Electrical Engineering and Informatics - Tole Sutikno 2014-06-01
Bulletin of Electrical Engineering and Informatics (Buletin Teknik Elektro dan Informatika) ISSN: 2089-3191, e-ISSN: 2302-9285 is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, telecommunication and computer engineering from

the global world. The journal publishes original papers in the field of electrical, electronics, instrumentation & control, telecommunication, computer and informatics engineering. Vol 3, No 2 June 2014 Table of Contents Predictions on the Development Dimensions of Provincial Tourism Discipline Based on the Artificial Neural Network BP Model PDF Yang Yang, Jun Hu, Mu Zhang 69-76 Study on the Rough-set-based Clustering Algorithm for Sensor Networks PDF Fengmei Liang, Liyuan Zhang, Peng Sun 77-90 Varying Vector Pulse Width Modulation for Three Phase Inverter PDF Raju J, Kowsalya M 91-100 Optimal Determination of Size and Site of DGs in Mesh System Using PSO PDF Mohammad Salehi Male, Adel Akbari Majd, Ramtin Rasouli Nezhad 101-108 Voltage Sag Mitigation and Load Reactive Power Compensation by UPQC PDF P. Ajitha, D. Jananisri 109-112 A Power Quality Improvement for Microgrid Inverter Operated In Grid Connected and Grid Disconnected Modes PDF M. Tamil Selvi, D.G unapriya 113-118 Harmonic Reduction in Variable Frequency Drives Using Active Power Filter PDF M. Tamilvani, K. Nithya, M. Srinivasan, S.U Prabha 119-126 Sampled Reference Frame Algorithm Based on Space Vector Pulse Width Modulation for Five Level Cascaded H-Bridge Inverter PDF Gomathi C, Navya Nagath, Veerakumar S 127-140 Subthreshold Dual Mode Logic PDF J.Nageswara Reddy, T. Sathyanarayana, M.A. Khadar Baba 141-148

Wastewater Reuse and Watershed Management - Ajai Singh 2019-06-26

Water is a finite resource, and the demand for clean water is constantly growing. Clean freshwater is needed to meet irrigation demands for agriculture, for consumption, and for industrial uses. The world produces billions of tons of wastewater every year. This volume looks at a multitude of ways to capture, treat, and reuse wastewater and how to effectively manage watersheds. It presents a selection of new technologies and methods to recycle, reclaim, and reuse water for agricultural, industrial, and environmental purposes. The editor states that more than 75–80% of the

wastewater we produce goes back to nature without being properly treated, leading to pollution and all sorts of negative health and productivity consequences. Topics cover a wide selection of research, including molluscs as a tool for river health assessment, flood risk modeling, biological removal of toxins from groundwater, saline water intrusion into coastal areas, urban drainage simulations, rainwater harvesting, irrigation topics, and more. Key features: • explores the existing methodologies in the field of reuse of wastewater • looks at different approaches in integrated water resources management • examines the issues of groundwater management and development • discusses saline water intrusion in coastal areas • presents various watershed management approaches • includes case studies and analyses of various water management efforts

Deep Learning Techniques for IoT Security and Privacy - Mohamed Abdel-Basset 2021-12-05

This book states that the major aim audience are people who have some familiarity with Internet of things (IoT) but interested to get a comprehensive interpretation of the role of deep Learning in maintaining the security and privacy of IoT. A reader should be friendly with Python and the basics of machine learning and deep learning. Interpretation of statistics and probability theory will be a plus but is not certainly vital for identifying most of the book's material.

Encyclopedia of Aluminum and Its Alloys, Two-Volume Set (Print) - George E. Totten 2018-12-07

This encyclopedia, written by authoritative experts under the guidance of an international panel of key researchers from academia, national laboratories, and industry, is a comprehensive reference covering all major aspects of metallurgical science and engineering of aluminum and its alloys. Topics covered include extractive metallurgy, powder metallurgy (including processing), physical metallurgy, production engineering, corrosion

engineering, thermal processing (processes such as metalworking and welding, heat treatment, rolling, casting, hot and cold forming), surface engineering and structure such as crystallography and metallography.

Disaster Management - C.A. Brebbia 2018-01-30

Recent major earthquakes, tsunamis, hurricanes, floods and other natural phenomena have resulted in huge losses in terms of human life and property destruction. A new range of human-made disasters have afflicted humanity in modern times; terrorist activities have been added to more classical disasters such as those due to the failure of industrial installations. It is important to understand the nature of these global risks to be able to develop strategies to prepare for these events and plan effective responses in terms of disaster management and the associated human health impacts. The selected papers contained in this book have been written by academics and professionals and represent some of the latest developments in the field.

Recent Advancements in Biomarkers and Early Detection of Gastrointestinal Cancers - Pallaval Veera Bramhachari 2020-07-21

This book describes various novel biomarkers for the early diagnosis of gastrointestinal (GI) cancers. It also highlights recent advances in understanding the role of molecular markers and biomarkers, such as volatile biomarkers, serum biomarkers, predictive and prognostic molecular markers for the early detection of GI cancers. Further, it discusses novel biomarkers, including circulating microRNAs, serum microRNA and plasma microRNA in GI cancer. The book presents breakthrough technologies like ultra-sensitive nano-chips, nanosensors, nanodevices, biosensors, electrochemical biosensors, optical biosensors, DNA biosensors, synthetic biology devices, and 'omics' technologies for the early diagnosis of gastrointestinal cancer. In addition it examines the potential of genome-wide association studies, big data analytics, computation biology, systems biology, and nanotechnology for early diagnostics and therapeutics for gastrointestinal cancer, with a focus on

personalized cancer treatment. The book is a valuable source for researchers and clinicians engaged in detection and diagnosis of gastrointestinal cancers.

International Conference on Communication, Computing and Electronics Systems - V. Bindhu 2021-03-25

This book includes high-quality papers presented at the International Conference on Communication, Computing and Electronics Systems 2020, held at the PPG Institute of Technology, Coimbatore, India, on 21–22 October 2020. The book covers topics such as automation, VLSI, embedded systems, integrated device technology, satellite communication, optical communication, RF communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, Internet of Things, precision models, bioinformatics, and healthcare informatics.

Cyber Denial, Deception and Counter Deception - Kristin E. Heckman 2015-11-13

This book presents the first reference exposition of the Cyber-Deception Chain: a flexible planning and execution framework for creating tactical, operational, or strategic deceptions. This methodology bridges the gap between the current uncoordinated patchwork of tactical denial and deception (D&D) techniques and their orchestration in service of an organization's mission. Concepts for cyber- D&D planning operations and management are detailed within the larger organizational, business, and cyber defense context. It examines the necessity of a comprehensive, active cyber denial scheme. The authors explain the organizational implications of integrating D&D with a legacy cyber strategy, and discuss trade-offs, maturity models, and lifecycle management. Chapters present the primary challenges in using deception as part of a security strategy, and guides users through the steps to overcome common obstacles. Both revealing and concealing fact and fiction have a critical role in securing private information. Detailed case studies are included. Cyber Denial, Deception and Counter Deception is designed as a reference for

professionals, researchers and government employees working in cybersecurity. Advanced-level students in computer science focused on security will also find this book useful as a reference or secondary text book.

Proceedings of International Conference on Remote Sensing for Disaster Management - Peddada Jagadeeswara Rao 2018-06-23

The natural disasters are the killer agents which can/can't be predicted even though we have modern technology. Every year, in one place or another, disasters striking which is devastating the area and surroundings, leading to ecological disruption besides huge loss of life and property. India is vulnerable to cyclones, landslides/avalanches, earthquakes, floods, droughts, forest fires, epidemics, etc. The 5700-km long coast of India, with its dense population is vulnerable to cyclones/low depressions, tsunamis, etc. The 2400-km long rugged Himalayan terrain is vulnerable to landslides, avalanches and earthquakes. India is not only vulnerable to natural disasters, it is also experiencing industrial accidents. The Bhopal Gas tragedy is one of the major man-made disasters in the world. The state of Andhra Pradesh has 970-km long coastline with two major rivers, etc. The conference is conducted in Visakhapatnam, is famous for industries and tourism. Recently, several industrial accidents took place, besides major natural disasters like Hud-Hud, etc. Disaster management shall be implemented from the grass root level in vulnerable areas to improve the capacity building, so as to minimize the losses. The capacity building coupled with technology results in reduction of loss of life and property.

Microelectronics, Electromagnetics and Telecommunications - Suresh Chandra Satapathy 2015-12-24

This volume contains 73 papers presented at ICMEET 2015: International Conference on Microelectronics, Electromagnetics and Telecommunications. The conference was held during 18 – 19 December, 2015 at Department of Electronics and Communication Engineering, GITAM Institute of

Technology, GITAM University, Visakhapatnam, INDIA. This volume contains papers mainly focused on Antennas, Electromagnetics, Telecommunication Engineering and Low Power VLSI Design.

Industrial Internet of Things - Anand Sharma 2022-04-06

This book focuses on the key technologies, challenges, and research directions of the Industrial Internet of Things (IIoT). It provides a basis for discussing open principles, methods, and research problems, and provides a systematic overview of the state-of-the-art research efforts, directions, and potential challenges associated with IIoT. *Industrial Internet of Things: Technologies and Research Directions* covers how industry automation is projected to be the largest and fastest-growing segment of the market. It explores the collaborative development of high-performance telecommunications, military, industrial, and general-purpose embedded computing applications, and offers a systematic overview of the state-of-the-art research efforts and new potential directions. Researchers, academicians, and professionals working in this interdisciplinary area will be interested in this book.

Abiotic Stresses in Wheat - Mohd. Kamran Khan 2023-01-27

Abiotic Stresses in Wheat: Unfolding the Challenges presents the current challenges, possibilities, and advancements in research-based management strategies for the adaptation of wheat crops under abiotic-stressed growth conditions. This book comprehensively discusses different abiotic stress conditions in wheat, and also covers current trends in their mitigation using advanced tools to develop resilience in wheat crops. Chapters provide insight into the genetic, biochemical, physiological, molecular, and transgenic advances and emerging frontiers for mitigating the effects of wheat abiotic stresses. This text is the first resource to include all abiotic stresses in one volume, providing important translational insights and efficient comparison. Describes advances in conventional and modern breeding approaches in countering the effect of wheat abiotic stresses Highlights the role of

physiological, biochemical and OMICS strategies Includes coverage of biotechnological tools such as whole genome sequencing, nanotechnology, and genome editing

Data-Centric Business and Applications - Tamara Radivilova 2020-06-20

This book addresses the challenges and opportunities of information/data processing and management. It also covers a range of methods, techniques and strategies for making it more efficient, approaches to increasing its usage, and ways to minimize information/data loss while improving customer satisfaction. Information and Communication Technologies (ICTs) and the Service Systems associated with them have had an enormous impact on businesses and our day-to-day lives over the past three decades, and continue to do so. This development has led to the emergence of new application areas and relevant disciplines, which in turn present new challenges and opportunities for service system usage. The book provides practical insights into various aspects of ICT technologies for service systems: Techniques for information/data processing and modeling in service systems Strategies for the provision of information/data processing and management Methods for collecting and analyzing information/data Applications, benefits, and challenges of service system implementation Solutions to increase the performance of various service systems using the latest ICT technologies

Electric Circuits Fundamentals - Sergio Franco 1994-08

This exciting new text teaches the foundations of electric circuits and develops a thinking style and a problem-solving methodology that is based on physical insight. Designed for the first course or sequence in circuits in electrical engineering, the approach imparts not only an appreciation for the elegance of the mathematics of circuit theory, but a genuine "feel" for a circuit's physical operation. This will benefit students not only in the rest of the curriculum, but in being able to cope with the rapidly changing technology they will face on-the-job. The text covers all the traditional topics

in a way that holds students' interest. The presentation is only as mathematically rigorous as is needed, and theory is always related to real-life situations. Franco introduces ideal transformers and amplifiers early on to stimulate student interest by giving a taste of actual engineering practice. This is followed by extensive coverage of the operational amplifier to provide a practical illustration of abstract but fundamental concepts such as impedance transformation and root location control--always with a vigilant eye on the underlying physical basis. SPICE is referred to throughout the text as a means for checking the results of hand calculations, and in separate end-of-chapter sections, which introduce the most important SPICE features at the specific points in the presentation at which students will find them most useful. Over 350 worked examples, 400-plus exercises, and 1000 end-of-chapter problems help students develop an engineering approach to problem solving based on conceptual understanding and physical intuition rather than on rote procedures.

Mining Multimedia Documents - Wahiba Ben Abdessalem Karaa 2017-04-21

The information age has led to an explosion in the amount of information available to the individual and the means by which it is accessed, stored, viewed, and transferred. In particular, the growth of the internet has led to the creation of huge repositories of multimedia documents in a diverse range of scientific and professional fields, as well as the tools to extract useful knowledge from them. Mining Multimedia Documents is a must-read for researchers, practitioners, and students working at the intersection of data mining and multimedia applications. It investigates various techniques related to mining multimedia documents based on text, image, and video features. It provides an insight into the open research problems benefitting advanced undergraduates, graduate students, researchers, scientists and practitioners in the fields of medicine, biology, production, education, government, national security and economics.

Nanofluids and Their Engineering Applications - K.R.V. Subramanian

2019-06-18

Nanofluids are solid-liquid composite material consisting of solid nanoparticles suspended in liquid with enhanced thermal properties. This book introduces basic fluid mechanics, conduction and convection in fluids, along with nanomaterials for nanofluids, property characterization, and outline applications of nanofluids in solar technology, machining and other special applications. Recent experiments on nanofluids have indicated significant increase in thermal conductivity compared with liquids without nanoparticles or larger particles, strong temperature dependence of thermal conductivity, and significant increase in critical heat flux in boiling heat transfer, all of which are covered in the book. Key Features Exclusive title focusing on niche engineering applications of nanofluids Contains high technical content especially in the areas of magnetic nanofluids and dilute oxide based nanofluids Feature examples from research applications such as solar technology and heat pipes Addresses heat transfer and thermodynamic features such as efficiency and work with mathematical rigor Focused in content with precise technical definitions and treatment

Smart Computing Paradigms: New Progresses and Challenges - Atilla Elçi

2019-11-30

This two-volume book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. It brings together contributions from scientists, professors, scholars and students, and presents essential information on computing, networking, and informatics. It also discusses the practical challenges encountered and the solutions used to overcome them, the goal being to promote the "translation" of basic research into applied research, and of applied research into practice. The works presented here will also demonstrate the importance of basic scientific research in a range of fields.

I3CAC 2021 - Mahalingam Sundhararajan 2021-06-04

I3CAC provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss not only the most recent innovations, trends, and concerns but also practical challenges encountered and solutions adopted in the fields of computing, communication and control systems. Participation of three renowned speakers and oral presentations of the 128 authors were presented in our conference. We strongly believe that the I3CAC 2021 conference provides a good forum for all researchers, developers and practitioners to discuss.

Translational Bioinformatics Applications in Healthcare - Khalid Raza
2021-04-20

Translational bioinformatics (TBI) involves development of storage, analytics, and advanced computational methods to harvest knowledge from voluminous biomedical and genomic data into 4P healthcare (proactive, predictive, preventive, and participatory). *Translational Bioinformatics Applications in Healthcare* offers a detailed overview on concepts of TBI, biological and clinical databases, clinical informatics, and pertinent real-case applications. It further illustrates recent advancements, tools, techniques, and applications of TBI in healthcare, including Internet of Things (IoT) potential, toxin databases, medical image analysis and telemedicine applications, analytics of COVID-19 CT images, viroinformatics and viral diseases, and COVID-19–related research. Covers recent technologies such as Blockchain, IoT, and Big data analytics in bioinformatics Presents the role of translational bioinformatic methods in the field of viroinformatics, as well as in drug development and repurposing Includes translational healthcare and NGS for clinical applications Illustrates translational medicine systems and their applications in better healthcare Explores medical image analysis with focus on CT images and novel coronavirus disease detection Aimed at researchers and graduate students in computational biology, data mining and knowledge

discovery, algorithms and complexity, and interdisciplinary fields of studies, including bioinformatics, health-informatics, biostatistics, biomedical engineering, and viroinformatics. Khalid Raza is an Assistant Professor, the Department of Computer Science, Jamia Millia Islamia (Central University), New Delhi. His research interests include translational bioinformatics, computational intelligence methods and its applications in bioinformatics, viroinformatics, and health informatics. Nilanjan Dey is an Associate Professor, the Department of Computer Science and Engineering, JIS University, Kolkata, India. His research interests include medical imaging, machine learning, computer-aided diagnosis, and data mining.

Mobile Ad-hoc and Sensor Networks - Jiannong Cao 2006-11-27

This book constitutes the refereed proceedings of the Second International Conference on Mobile Ad-hoc and Sensor Networks, MSN 2006, held in Hong Kong, China in December 2006. The 73 revised full papers address all current issues in mobile ad hoc and sensor networks and are organized in topical sections on routing, network protocols, security, energy efficiency, data processing, and deployment.

Quality of Service in Heterogeneous Networks - Novella Bartolini 2009-11-09

This volume presents the proceedings of the 6th International ICST Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness and of the Third International ICST Workshop on Advanced Architectures and Algorithms for Internet DELivery and Applications. Both events were held in Las Palmas de Gran Canaria in November 2009. To each of these events is devoted a specific part of the volume. The first part is dedicated to the proceedings of ICST QShine 2009. The first four chapters deal with new issues concerning the quality of service in IP-based telephony and multimedia. A second set of four chapters addresses some important research problems in mul- hop wireless networks, with a special emphasis on the problems of routing. The following three papers deal with recent advances in

the field of data management and area coverage in sensor networks, while a fourth set of chapters deals with mobility and context-aware services. The fifth set of chapters contains new works in the area of Internet delivery and switching systems. The following chapters of the QShine part of the volume are devoted to papers in the areas of resource management in wireless networks, overlay, P2P and SOA architectures. Some works also deal with the optimization of quality of service and energy consumption in WLAN and sensor networks and on the design of a mobility support in mesh networks.

Artificial Intelligence in Information and Communication Technologies, Healthcare and Education - Parikshit N Mahalle 2022-12-27

Artificial Intelligence in Information and Communication Technologies, Healthcare and Education: A Roadmap Ahead is designed as a reference text and discusses inter-dependability, communication and effective control for the betterment of services through artificial intelligence (AI), as well as the challenges and path ahead for AI in computing and control across different domains of business and human life. The book accommodates technologies and application domains including backbone hardware, systems and methods for deployment, which help incorporating intelligence through different supervised and probabilistic learning approaches. Features The book attempts to establish a connection between hardware, software technologies and

algorithmic intelligence for data analysis and decision support in domains such as healthcare, education and other aspects of business and mobility. It presents various recent applications of artificial intelligence in information and communication technologies such as search and optimization methods, machine learning, data representation and ontologies, and multi-agent systems. The book provides a collection of different case studies with experimentation results than mere theoretical and generalized approaches. Covers most of the applications using the trending technologies like machine learning (ML), data science (DS), Internet of Things (IoT), and underlying information and communication technologies. The book is aimed primarily at advanced undergraduates and postgraduate students studying computer science, computer applications, and information technology. Researchers and professionals will also find this book useful.

Smart Technologies in Data Science and Communication - Sanjoy Kumar Saha 2021-06-07

This book features high-quality, peer-reviewed research papers presented at the Fourth International Conference on Smart Technologies in Data Science and Communication (SMART-DSC 2021), held in Koneru Lakshmaiah Education Foundation, Guntur, Andhra Pradesh, India, on 18–19 February 2021. It includes innovative and novel contributions in the areas of data analytics, communication, and soft computing.