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Enabling Blockchain Technology for Secure Networking and Communications Proceedings of International Conference on Intelligent Manufacturing and Automation Handbook of Research on Cloud Computing and Big Data Applications in IoT Multidisciplinary Approach to Modern Digital Steganography Blockchain Technologies and Applications for Digital Governance Design of Intelligent Applications using Machine Learning and Deep Learning Techniques Proceedings of International Conference on Wireless Communication Inventive Systems and Control Proceedings of International Conference on Wireless Communication Springer Handbook of Mechanical Engineering Link Cyber Security and Digital Forensics Proceedings of International Conference on Intelligent Manufacturing and Automation Future Trends in 5G and 6G Large-Scale Parallel Data Mining Science With The Cherenkov Telescope Array Exploring the X-ray Universe Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning Elementary JavaScript - Programming for Elementary and Middle School Kids Machines, Mechanism and Robotics Information and Communication Technology for Competitive Strategies (ICTCS 2020) Data Science Advances in Information Retrieval Intelligent Data Analytics for Power and Energy Systems Multiple Messengers and Challenges in Astroparticle Physics Cumulated Index Medicus Bombay Hustle Peer-to-Peer Computing Indians in the First World War Social Information Retrieval Systems: Emerging Technologies and Applications for Searching the Web Effectively Languages and Compilers for Parallel Computing Index Medicus Python Hacks Languages, Compilers, and Run-Time Systems for Scalable Computers Applications of Data Mining to Electronic Commerce Imagining the East Web Mining and Social Networking Advanced Computing Technologies and Applications Architecture of Computing Systems -- ARCS 2013 Semantics of a Networked World. Semantics for Grid Databases

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Proceedings of International Conference on Wireless Communication Apr 27 2022 The book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM), which is organized by D. J. Sanghvi College of Engineering's Department of Electronics and Telecommunication Engineering. The book focuses on specific topics of wireless communication, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems. Covering three main areas - networking, antenna designs and embedded systems applicable to communication - it is a valuable resource for postgraduate and doctoral students.

Advanced Computing Technologies and Applications Aug 27 2019 This book features selected papers presented at the 2nd International Conference on Advanced Computing Technologies and Applications, held at SVKM's Dwarkadas J. Sanghvi College of Engineering, Mumbai, India, from 28 to 29 February 2020. Covering recent advances in next-generation computing, the book focuses on recent developments in intelligent computing, such as linguistic computing, statistical computing, data computing and ambient applications.

Peer-to-Peer Computing Jul 07 2020 Peer-to-peer (P2P) technology, or peer computing, is a paradigm that is viewed as a potential technology for redesigning distributed architectures and, consequently, distributed processing. Yet the scale and dynamism that characterize P2P systems demand that we reexamine traditional distributed technologies. A paradigm shift that includes self-reorganization, adaptation and resilience is called for. On the other hand, the increased computational power of such networks opens up completely new applications, such as in digital content sharing, scientific computation, gaming, or collaborative work environments. In this book, Vu, Lupu and Ooi present the technical challenges offered by P2P systems, and the means that have been proposed to address them. They provide a thorough and comprehensive review of recent advances on routing and discovery methods; load balancing and replication techniques; security, accountability and anonymity, as well as trust and reputation schemes; programming models and P2P systems and projects. Besides surveying existing methods and systems, they also compare and evaluate some of the more promising schemes. The need for such a book is evident. It provides a single source for practitioners, researchers and students on the state of the art. For practitioners, this book explains best practice, guiding selection of appropriate techniques for each application. For researchers, this book provides a foundation for the development of new and more effective methods. For students, it is an overview of the wide range of advanced techniques for realizing effective P2P systems, and it can easily be used as a text for an advanced course on Peer-to-Peer Computing and Technologies, or as a companion text for courses on various subjects, such as distributed systems, and grid and cluster computing.

Intelligent Data Analytics for Power and Energy Systems Nov 10 2020 This book brings together state-of-the-art advances in intelligent data analytics as driver of the future evolution of PaE systems. In the modern power and energy (PaE) domain, the increasing penetration of renewable energy sources (RES) and the consequent empowerment of consumers as a central and active solution to deal with the generation and development variability are driving the PaE system towards a historic paradigm shift. The small-scale, diversity, and especially the number of new players involved in the PaE system potentiate a significant growth of generated data. Moreover, advances in communication (between IoT devices and M2M: machine to machine, man to machine, etc.) and digitalization hugely increased the volume of data that results from PaE components, installations, and systems operation. This data is becoming more and more important for PaE systems operation, maintenance, planning, and scheduling with relevant impact on all involved entities, from producers, consumers and aggregators to market and system operators. However, although the PaE community is fully aware of the intrinsic value of those data, the methods to deal with it still necessitate substantial enhancements, development and research. Intelligent data analytics is thereby playing a fundamental role in this domain, by enabling stakeholders to expand their decision-making method and achieve the awareness on the PaE environment. The editors also included demonstrated codes for presented problems for better understanding for beginners.

Index Medicus Mar 03 2020

Imagining the East Oct 29 2019 The Theosophical Society (est. 1875 in New York by H. P. Blavatsky, H. S. Olcott and others) is increasingly becoming recognized for its influential role in shaping the alternative new religious and cultural landscape of the late nineteenth and the twentieth century, especially as an early promoter of interest in Indian and Tibetan religions and philosophies. Despite this increasing awareness, many of the central questions relating to the early Theosophical Society and the East remain largely unexplored. This book is the first scholarly anthology

dedicated to this topic. It offers many new details about the study of Theosophy in the history of modern religions and Western esotericism. The essays in *Imagining the East* explore how Theosophists during the formative period understood the East and those of its people with whom they came into contact. The authors examine the relationship of the theosophical approach with orientalism and aspects of the history of ideas, politics, and culture at large and discuss how these esoteric or theosophical representations mirrored conditions and values current in nineteenth-century mainstream intellectual culture. The essays also look at how the early Theosophical Society's imagining of the East differed from mainstream 'orientalism' and how the Theosophical Society's mission in India was distinct from that of British colonialism and Christian missionaries.

Science With The Cherenkov Telescope Array Jul 19 2021 This book summarizes the science to be carried out by the upcoming Cherenkov Telescope Array, a major ground-based gamma-ray observatory that will be constructed over the next six to eight years. The major scientific themes, as well as core program of key science projects, have been developed by the CTA Consortium, a collaboration of scientists from many institutions worldwide. CTA will be the major facility in high-energy and very high-energy photon astronomy over the next decade and beyond. CTA will have capabilities well beyond past and present observatories. Thus, CTA's science program is expected to be rich and broad and will complement other major multiwavelength and multimessenger facilities. This book is intended to be the primary resource for the science case for CTA and it thus will be of great interest to the broader physics and astronomy communities. The electronic version (e-book) is available in open access.

Multiple Messengers and Challenges in Astroparticle Physics Oct 10 2020 This book, designed as a tool for young researchers and graduate students, reviews the main open problems and research lines in various fields of astroparticle physics: cosmic rays, gamma rays, neutrinos, cosmology, and gravitational physics. The opening section discusses cosmic rays of both galactic and extragalactic origin, examining experimental results, theoretical models, and possible future developments. The basics of gamma-ray astronomy are then described, including the detection methods and techniques. Galactic and extragalactic aspects of the field are addressed in the light of recent discoveries with space-borne and ground-based detectors. The review of neutrinos outlines the status of the investigations of neutrino radiation and brings together relevant formulae, estimations, and background information. Three complementary issues in cosmology are examined: observable predictions of inflation in the early universe, effects of dark energy/modified gravity in the large-scale structure of the universe, and neutrinos in cosmology and large-scale structures. The closing section on gravitational physics reviews issues relating to quantum gravity, atomic precision tests, space-based experiments, the strong field regime, gravitational waves, multi-messengers, and alternative theories of gravity.

Data Science Jan 13 2021 "The proposed book covers the topic of data science in a very comprehensive manner and synthesizes both fundamental and advanced topics of a research area that has now reached maturity. The book starts from the basic concepts of data science; it highlights the types of data, its use and its importance, followed by discussion on a wide range of applications of data science and widely used techniques in data science. Key features: provides an internationally respected collection of scientific research methods, technologies and applications in the area of data science, presents predictive outcomes by applying data science techniques on real life applications, provides readers with the tools, techniques and cases required to excel with modern artificial intelligence methods, and gives the reader variety of intelligent applications that can be designed using data science and its allied fields. The book is aimed primarily at advanced undergraduates and graduates studying machine learning and data science. Researchers and professionals will also find this book useful"---

Handbook of Research on Cloud Computing and Big Data Applications in IoT Sep 01 2022 Today, cloud computing, big data, and the internet of things (IoT) are becoming indubitable parts of modern information and communication systems. They cover not only information and communication technology but also all types of systems in society including within the realms of business, finance, industry, manufacturing, and management. Therefore, it is critical to remain up-to-date on the latest advancements and applications, as well as current issues and challenges. The *Handbook of Research on Cloud Computing and Big Data Applications in IoT* is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles, challenges, and applications of cloud computing, big data, and IoT. While highlighting topics such as fog computing, language interaction, and scheduling algorithms, this publication is ideally designed for software developers, computer engineers, scientists, professionals, academicians, researchers, and students.

Python Hacks Jan 31 2020 Python is a superb language, easy to learn and start with. It could help achieve versatile tasks and hence its good to know about it inside out. If you are already a beginner and looking forward to dive it in a bit more, this book is for you! This book will let you know some cool uncommon tricks you could use in Python. It also gives information of some useful modules that could make the task of implementing some complex tasks in easy manner. To have an abstract knowledge about Python's standard libraries/modules is good. This will help to choose the perfect modules to solve problems and tasks in future.

Enabling Blockchain Technology for Secure Networking and Communications Nov 03 2022 In recent years, the surge of blockchain technology has been rising due to its proven reliability in ensuring secure and effective transactions, even between untrusted parties. Its application is broad and covers public and private domains varying from traditional communication networks to more modern networks like the internet of things and the internet of energy crossing fog and edge computing, among others. As technology matures and its standard use cases are established, there is a need to gather recent research that can shed light on several aspects and facts on the use of blockchain technology in different fields of interest. *Enabling Blockchain Technology for Secure Networking and Communications* consolidates the recent research initiatives directed towards exploiting the advantages of blockchain technology for benefiting several areas of applications that vary from security and robustness to scalability and privacy-preserving and more. The chapters explore the current applications of blockchain for networking and communications, the future potentials of blockchain technology, and some not-yet-suspected areas of research and its application. This book is ideal for practitioners, stakeholders, researchers, academicians, and students interested in the concepts of blockchain technology and the potential and pitfalls of its application in different utilization domains.

Multidisciplinary Approach to Modern Digital Steganography Jul 31 2022 Steganography is the art of secret writing. The purpose of steganography is to hide the presence of a message from the intruder by using state-of-the-art methods, algorithms, architectures, models, and methodologies in the domains of cloud, internet of things (IoT), and the Android platform. Though security controls in cloud computing, IoT, and Android platforms are not much different than security controls in an IT environment, they might still present different types of risks to an organization than the classic IT solutions. Therefore, a detailed discussion is needed in case there is a breach in security. It is important to review the security aspects of cloud, IoT, and Android platforms related to steganography to determine how this new technology is being utilized and improved continuously to protect information digitally. The benefits and challenges, along with the current and potential developments for the future, are important keystones in this critical area of security research. *Multidisciplinary Approach to Modern Digital Steganography* reviews the security aspects of cloud, IoT, and Android platforms related to steganography and addresses emerging security concerns, new algorithms, and case studies in

the field. Furthermore, the book presents a new approach to secure data storage on cloud infrastructure and IoT along with including discussions on optimization models and security controls that could be implemented. Other important topics include data transmission, deep learning techniques, machine learning, and both image and text steganography. This book is essential for forensic engineers, forensic analysts, cybersecurity analysts, cyber forensic examiners, security engineers, cybersecurity network analysts, cyber network defense analysts, and digital forensic examiners along with practitioners, researchers, academicians, and students interested in the latest techniques and state-of-the-art methods in digital steganography.

Architecture of Computing Systems -- ARCS 2013 Jul 27 2019 This book constitutes the refereed proceedings of the 26th International Conference on Architecture of Computing Systems, ARCS 2013, held in Prague, Czech Republic, in February 2013. The 29 papers presented were carefully reviewed and selected from 73 submissions. The topics covered are computer architecture topics such as multi-cores, memory systems, and parallel computing, adaptive system architectures such as reconfigurable systems in hardware and software, customization and application specific accelerators in heterogeneous architectures, organic and autonomic computing including both theoretical and practical results on self-organization, self-configuration, self-optimization, self-healing, and self-protection techniques, operating systems including but not limited to scheduling, memory management, power management, RTOS, energy-awareness, and green computing.

Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning May 17 2021 By applying data analytics techniques and machine learning algorithms to predict disease, medical practitioners can more accurately diagnose and treat patients. However, researchers face problems in identifying suitable algorithms for pre-processing, transformations, and the integration of clinical data in a single module, as well as seeking different ways to build and evaluate models. The Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning is a pivotal reference source that explores the application of algorithms to making disease predictions through the identification of symptoms and information retrieval from images such as MRIs, ECGs, EEGs, etc. Highlighting a wide range of topics including clinical decision support systems, biomedical image analysis, and prediction models, this book is ideally designed for clinicians, physicians, programmers, computer engineers, IT specialists, data analysts, hospital administrators, researchers, academicians, and graduate and post-graduate students.

Languages and Compilers for Parallel Computing Apr 03 2020 This book constitutes the thoroughly refereed post-workshop proceedings of the 11th International Workshop on Languages and Compilers for Parallel Computing, LCPC'98, held in Chapel Hill, North Carolina, USA in August 1998. The 24 revised full papers presented have gone through two rounds of selection and reviewing. The volume is divided in topical sections on Java, locality, network computing, Fortran, irregular applications, instructions scheduling, and dependence analysis.

Machines, Mechanism and Robotics Mar 15 2021 This volume includes select papers presented during the 4th International and 19th National Conference on Machines and Mechanism (iNaCoMM 2019), held in Indian Institute of Technology, Mandi. It presents research on various aspects of design and analysis of machines and mechanisms by academic and industry researchers.

Springer Handbook of Mechanical Engineering Jan 25 2022 This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

Languages, Compilers, and Run-Time Systems for Scalable Computers Jan 01 2020 This book constitutes the strictly refereed post-workshop proceedings of the 5th International Workshop on Languages, Compilers, and Run-Time Systems for Scalable Computing, LCR 2000, held in Rochester, NY, USA in May 2000. The 22 revised full papers presented were carefully reviewed and selected from 38 submissions. The papers are organized in topical sections on data-intensive computing, static analysis, openMP support, synchronization, software DSM, heterogeneous/-meta-computing, issues of load, and compiler-supported parallelism.

Future Trends in 5G and 6G Sep 20 2021 Future Trends in 5G and 6G: Challenges, Architecture, and Applications offers a comprehensive overview of basic communication and networking technologies. It focuses on emerging technologies, such as Software-Defined Network (SDN)-based ad hoc networks, 5G, Machine Learning, and Deep Learning solutions for communication and networking, Cloud Computing, etc. It also includes discussions on practical and innovative applications, including Network Security, Smart Cities, e-health, and Intelligent Systems. The book addresses several key issues in SDN energy-efficient systems, the Internet of Things, Big Data, Cloud Computing and Virtualization, Machine Learning, Deep Learning, Cryptography, and 6G wireless technology and its future. It provides students, researchers, and practicing engineers with an expert guide to the fundamental concepts, challenges, architecture, applications, and state-of-the-art developments in communication and networking.

Elementary JavaScript - Programming for Elementary and Middle School Kids Apr 15 2021 Elementary JavaScript - Programming for Elementary and Middle School Kids is designed to introduce anyone 10 years and up to programming. Follow along as you learn the basic concepts of programming while building parts of a game. By the end of this book, you will have learned the basics of programming and built a Pokémon card game at the same time. This book is based on Sidd's experience teaching his son programming and he thinks anyone can enjoy the unlimited possibilities from knowing how to code. Code opens the doors to all kinds of fun projects. Imagine being able to make the games you play! This book will teach you how to think in code, write code that is easy to understand, work with friends on code projects and also what to do once your project is complete. You will be introduced to the latest additions to the JavaScript language that make programming simpler, more efficient and less complicated.

Proceedings of International Conference on Wireless Communication Feb 23 2022 This book comprises selected papers presented at the International Conference on Wireless Communication (ICWiCOM 2021), which is organized by the Department of Electronics and Telecommunication Engineering, D. J. Sanghvi College of Engineering, Mumbai, India, during October 8-9, 2021. The book focuses on specific topics of wireless communication, like signal and image processing applicable to wireless domains, networking, microwave and antenna design, and telemedicine systems. Covering three main areas - Antenna Design, Networking & Signal Processing, Embedded Systems and Internet of Things (IoT) - it is a valuable resource for postgraduate and doctoral students.

Applications of Data Mining to Electronic Commerce Nov 30 2019 Applications of Data Mining to Electronic Commerce brings together in one place important contributions and up-to-date research results in this fast moving area. Applications of Data Mining to Electronic Commerce serves as an excellent reference, providing insight into some of the most challenging research issues in the field.

Semantics of a Networked World. Semantics for Grid Databases Jun 25 2019

Indians in the First World War Jun 05 2020 Indians in the First World War: The Missing Links is the first authoritative and complete academic account of the Indian participation in the First World War to be written by an Indian historian. The Great War involved significant Indian military contributions and casualties that are largely unheard of. The war also brought about major changes in the Indian social and political situation, caste structure and viewpoint regarding

Indian identity, and fuelled the demand for India's independence. This book carefully articulates and examines these crucial historic changes. The book covers Indian perspectives on all major aspects—historical, social, political and religious, among others—that were instrumental in ensuring India's participation in the war. Based on the author's own research and deep familiarity with Indian history and contemporary political reality, the book throws new light on some major events during the war. It is an indispensable book that deserves to be read by anyone who is interested in gaining a more thorough understanding of India's contribution to and standing in world history and politics.

Bombay Hustle Aug 08 2020 From starry-eyed fans with dreams of fame to cotton entrepreneurs turned movie moguls, the Bombay film industry has historically energized a range of practices and practitioners, playing a crucial and compelling role in the life of modern India. *Bombay Hustle* presents an ambitious history of Indian cinema as a history of material practice, bringing new insights to studies of media, modernity, and the late colonial city. Drawing on original archival research and an innovative transdisciplinary approach, Debashree Mukherjee offers a panoramic portrait of the consolidation of the Bombay film industry during the talkie transition of the 1920s–1940s. In the decades leading up to independence in 1947, Bombay became synonymous with marketplace thrills, industrial strikes, and modernist experimentation. Its burgeoning film industry embodied Bombay's spirit of "hustle," gathering together and spewing out the many different energies and emotions that characterized the city. *Bombay Hustle* examines diverse sites of film production—finance, pre-production paperwork, casting, screenwriting, acting, stunts—to show how speculative excitement jostled against desires for scientific management in an industry premised on the struggle between contingency and control. Mukherjee develops the concept of a "cine-ecology" in order to examine the bodies, technologies, and environments that collectively shaped the production and circulation of cinematic meaning in this time. The book thus brings into view a range of marginalized film workers, their labor and experiences; forgotten film studios, their technical practices and aesthetic visions; and overlooked connections among media practices, geographical particularities, and historical exigencies.

Web Mining and Social Networking Sep 28 2019 This book examines the techniques and applications involved in the Web Mining, Web Personalization and Recommendation and Web Community Analysis domains, including a detailed presentation of the principles, developed algorithms, and systems of the research in these areas. The applications of web mining, and the issue of how to incorporate web mining into web personalization and recommendation systems are also reviewed. Additionally, the volume explores web community mining and analysis to find the structural, organizational and temporal developments of web communities and reveal the societal sense of individuals or communities. The volume will benefit both academic and industry communities interested in the techniques and applications of web search, web data management, web mining and web knowledge discovery, as well as web community and social network analysis.

Information and Communication Technology for Competitive Strategies (ICTCS 2020) Feb 11 2021 This book contains the best selected research papers presented at ICTCS 2020: Fifth International Conference on Information and Communication Technology for Competitive Strategies. The conference was held at Jaipur, Rajasthan, India, during 11–12 December 2020. The book covers state-of-the-art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications. This book contains papers mainly focused on ICT for computation, algorithms and data analytics, and IT security.

Link Dec 24 2021

Exploring the X-ray Universe Jun 17 2021 Capturing the excitement and accomplishments of X-ray astronomy, this second edition now includes a broader range of astronomical phenomena and dramatic new results from the most powerful X-ray telescopes. Covering all areas of astronomical research, ranging from the smallest to the largest objects, from neutron stars to clusters of galaxies, this textbook is ideal for undergraduate students. Each chapter starts with the basic aspects of the topic, explores the history of discoveries, and examines in detail modern observations and their significance. This new edition has been updated with results from the most recent space-based instruments, including ROSAT, BeppoSAX, ASCA, Chandra, and XMM. New chapters cover X-ray emission processes, the interstellar medium, the Solar System, and gamma-ray bursts. The text is supported by over 300 figures, with tables listing the properties of the sources, and more specialized technical points separated in boxes.

Cumulated Index Medicus Sep 08 2020

Proceedings of International Conference on Intelligent Manufacturing and Automation Oct 22 2021 This book presents the outcomes of the International Conference on Intelligent Manufacturing and Automation (ICIMA 2018) organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering, Mumbai, and the Indian Society of Manufacturing Engineers. It includes original research and the latest advances in the field, focusing on automation, mechatronics and robotics; CAD/CAM/CAE/CIM/FMS in manufacturing; product design and development; DFM/DFA/FMEA; MEMS and Nanotechnology; rapid prototyping; computational techniques; industrial engineering; manufacturing process management; modelling and optimization techniques; CRM, MRP and ERP; green, lean, agile and sustainable manufacturing; logistics and supply chain management; quality assurance and environment protection; advanced material processing and characterization; and composite and smart materials.

Blockchain Technologies and Applications for Digital Governance Jun 29 2022 Since its inception, blockchain has evolved to become a crucial trending technology that massively impacts the fast-paced digital world. It has been a game-changing technology that is underpinned with cryptocurrencies like Ethereum and Bitcoin that eventually closed the doors for hacking activities. As blockchain is utilized across areas such as banking, voting, finance, healthcare, and manufacturing, it is important to examine the current trends, difficulties, opportunities, and future directions in order to utilize its full potential. *Blockchain Technologies and Applications for Digital Governance* addresses the impacts and future trends of blockchain, particularly for digital governance, and demonstrates the applications of blockchain in digital governance using case studies. Covering a range of topics from cybersecurity to real estate tokenization, it is ideal for industry professionals, researchers, academicians, instructors, practitioners, and students.

Advances in Information Retrieval Dec 12 2020 This book constitutes the refereed proceedings of the 27th European Conference on Information Retrieval Research, ECIR 2005, held in Santiago de Compostela, Spain in March 2005. The 34 revised full papers presented together with 2 invited keynote papers and 17 selected poster papers were carefully reviewed and selected from 124 papers submitted. The papers are organized in topical sections on peer-to-peer, information retrieval models, text summarization, information retrieval methods, text classification and fusion, user studies and evaluation, multimedia retrieval, and Web information retrieval.

Inventive Systems and Control Mar 27 2022 This book presents selected papers from the 6th International Conference on Inventive Systems and Control (ICISC 2022), held on 6–7 January 2022 at JCT College of Engineering and Technology, Coimbatore, India. The conference proceedings of ICISC 2022 includes an analysis of the class of intelligent systems and control techniques that utilizes various artificial intelligence technologies, where there is no mathematical models and system available to make them remain controlled. Inspired by various existing intelligent techniques, the primary goal of ICISC 2022 proceedings is to present the emerging innovative models to tackle the challenges faced by the existing computing and communication technologies.

Proceedings of International Conference on Intelligent Manufacturing and Automation Oct 02 2022 This book gathers selected papers presented at the Second International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of Manufacturing Engineers (ISME). Covering a range of topics in intelligent manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping, computational techniques, nano- & micro-machining, sustainable manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques, CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes.

Design of Intelligent Applications using Machine Learning and Deep Learning Techniques May 29 2022 Machine learning (ML) and deep learning (DL) algorithms are invaluable resources for Industry 4.0 and allied areas and are considered as the future of computing. A subfield called neural networks, to recognize and understand patterns in data, helps a machine carry out tasks in a manner similar to humans. The intelligent models developed using ML and DL are effectively designed and are fully investigated - bringing in practical applications in many fields such as health care, agriculture and security. These algorithms can only be successfully applied in the context of data computing and analysis. Today, ML and DL have created conditions for potential developments in detection and prediction. Apart from these domains, ML and DL are found useful in analysing the social behaviour of humans. With the advancements in the amount and type of data available for use, it became necessary to build a means to process the data and that is where deep neural networks prove their importance. These networks are capable of handling a large amount of data in such fields as finance and images. This book also exploits key applications in Industry 4.0 including: · Fundamental models, issues and challenges in ML and DL. · Comprehensive analyses and probabilistic approaches for ML and DL. · Various applications in healthcare predictions such as mental health, cancer, thyroid disease, lifestyle disease and cardiac arrhythmia. · Industry 4.0 applications such as facial recognition, feather classification, water stress prediction, deforestation control, tourism and social networking. · Security aspects of Industry 4.0 applications suggest remedial actions against possible attacks and prediction of associated risks. - Information is presented in an accessible way for students, researchers and scientists, business innovators and entrepreneurs, sustainable assessment and management professionals. This book equips readers with a knowledge of data analytics, ML and DL techniques for applications defined under the umbrella of Industry 4.0. This book offers comprehensive coverage, promising ideas and outstanding research contributions, supporting further development of ML and DL approaches by applying intelligence in various applications.

Cyber Security and Digital Forensics Nov 22 2021 CYBER SECURITY AND DIGITAL FORENSICS Cyber security is an incredibly important issue that is constantly changing, with new methods, processes, and technologies coming online all the time. Books like this are invaluable to professionals working in this area, to stay abreast of all of these changes. Current cyber threats are getting more complicated and advanced with the rapid evolution of adversarial techniques. Networked computing and portable electronic devices have broadened the role of digital forensics beyond traditional investigations into computer crime. The overall increase in the use of computers as a way of storing and retrieving high-security information requires appropriate security measures to protect the entire computing and communication scenario worldwide. Further, with the introduction of the internet and its underlying technology, facets of information security are becoming a primary concern to protect networks and cyber infrastructures from various threats. This groundbreaking new volume, written and edited by a wide range of professionals in this area, covers broad technical and socio-economic perspectives for the utilization of information and communication technologies and the development of practical solutions in cyber security and digital forensics. Not just for the professional working in the field, but also for the student or academic on the university level, this is a must-have for any library. Audience: Practitioners, consultants, engineers, academics, and other professionals working in the areas of cyber analysis, cyber security, homeland security, national defense, the protection of national critical infrastructures, cyber-crime, cyber vulnerabilities, cyber-attacks related to network systems, cyber threat reduction planning, and those who provide leadership in cyber security management both in public and private sectors

Large-Scale Parallel Data Mining Aug 20 2021 With the unprecedented growth-rate at which data is being collected and stored electronically today in almost all fields of human endeavor, the efficient extraction of useful information from the data available is becoming an increasing scientific challenge and a massive economic need. This book presents thoroughly reviewed and revised full versions of papers presented at a workshop on the topic held during KDD'99 in San Diego, California, USA in August 1999 complemented by several invited chapters and a detailed introductory survey in order to provide complete coverage of the relevant issues. The contributions presented cover all major tasks in data mining including parallel and distributed mining frameworks, associations, sequences, clustering, and classification. All in all, the volume presents the state of the art in the young and dynamic field of parallel and distributed data mining methods. It will be a valuable source of reference for researchers and professionals.

Social Information Retrieval Systems: Emerging Technologies and Applications for Searching the Web Effectively May 05 2020 The wealth of information accessible on the Internet has grown exponentially since its advent. This mass of content must be systemically sifted to glean pertinent data, and the utilization of the collective intelligence of other users, or social information retrieval, is an innovative, emerging technique. Social Information Retrieval Systems: Emerging Technologies & Applications for Searching the Web Effectively provides relevant content in the areas of information retrieval systems, services, and research; covering topics such as social tagging, collaborative querying, social network analysis, subjective relevance judgments, and collaborative filtering. Answering the increasing demand for authoritative resources on Internet technologies, this Premier Reference Source will make an indispensable addition to any library collection.