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Proceedings of the Indian Science Congress

C Simpler How to Program

Educreation Publishing This treatise on the subject "C Simpler: How to Program" contains comprehensive treatment of subject helps to solve the C-Programming. It covers the syllabus of various Indian universities. This book contains five modules which emphasis on an adaptive and systematic approach from introduction to mainstream applications. It will be beneficial for students, and academia's for a time bound and effective reading for easy understanding of the subject. This is a foundation basic programming subject in Computer Science and Engineering and many competitive examinations like GATE, IES etc. This book will be beneficial for preparing the subject in depth for such competitive objective and descriptive examinations.

Allied Mathematics Vol.II

S. Chand Publishing For B.Sc.Physics, Chemistry, Botany, Zoology, Geology, Computer Science and major courses of Madras Universities

Papers in ITJEMAST 11(15) 2020

International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

Advances in Electrical and Computer Technologies

Select Proceedings of ICAECT 2020

Springer Nature This book comprises select proceedings of the International Conference on Advances in Electrical and Computer Technologies 2020 (ICAECT 2020). The papers presented in this book are peer-reviewed and cover latest research in electrical, electronics, communication and computer engineering. Topics covered include smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geo informative systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broad band communication, mobile and optical communication, network security, VLSI, embedded systems, optical networks and wireless communication. The volume can be useful for students and researchers working in the different overlapping areas of electrical, electronics and communication engineering.

Advances of DNA Computing in Cryptography

CRC Press This book discusses the current technologies of cryptography using DNA computing. Various chapters of the book will discuss the basic concepts of cryptography, steganography, basic concepts of DNA and DNA computing, approaches of DNA computing in cryptography, security attacks, practical implementaion of DNA computing, applications of DNA computing in the cloud computing environment, applications of DNA computing for big data, etc. It provides a judicious mix of concepts, solved examples and real life case studies.

Lightning Engineering

Physics, Computer-based Test-bed, Protection of Ground and Airborne Systems

Springer Nature This book gives a contemporary and comprehensive overview of the physics of lightning and protection systems, based on nearly 40 years of research, teaching, and consultancy work in this area. The book begins with an overview of the climatology of lightning and electric storms, as well as giving insight into lightning discharge from the preliminary discharges or processes such as corona, stepped leader, and subsequent return strokes, including the important submicrosecond threats and continuous current. The subsequent chapters present measures of lightning threat analysis to aircraft and electric power systems, protection measures to be used in high-voltage to low-voltage computer and communication systems, as well as to commercial and domestic buildings. The book discusses challenges posed by the submicrosecond lightning current changes and climate change to present and future high-voltage apparatus and structures (including carbon composite aircraft and new buildings) exposed to lightning strikes. Including worked examples, illustrations, and detailed analysis, Lightning Engineering will be of interest to electrical engineers, as well as researchers and graduate students.

Handbook of Research on Machine and Deep Learning Applications for Cyber Security

IGI Global As the advancement of technology continues, cyber security continues to play a significant role in today's world. With society becoming more dependent on the internet, new opportunities for virtual attacks can lead to the exposure of critical information. Machine and deep learning techniques to prevent this exposure of information are being applied to address mounting concerns in computer security. The Handbook of Research on Machine and Deep Learning Applications for Cyber Security is a pivotal reference source that provides vital research on the application of machine learning techniques for network security research. While highlighting topics such as web security, malware detection, and secure information sharing, this publication explores recent research findings in the area of electronic security as well as challenges and countermeasures in cyber security research. It is ideally designed for software engineers, IT specialists, cybersecurity analysts, industrial experts, academicians, researchers, and post-graduate students.

India Who's who

The Growth and Development of Astronomy and Astrophysics in India and the Asia-Pacific Region

ICOA-9, Pune, India, 15-18 November 2016

Springer This book discusses the study of astronomy in different cultures, applied historical astronomy and history of multi-wavelength astronomy, and the genesis of recent research. It contains peer-reviewed papers gathered from the International Conference on Oriental Astronomy 9 (ICOA-9) held at the Indian Institute of Science Education and Research Pune, India. It covers the areas like megalithic and other prehistoric astronomy, astronomical records in ancient texts, astronomical myths and architecture, astronomical themes in numismatics and rock art, ancient astronomers and their instruments, star maps and star catalogues, historical records and observations of astronomical events, calendars, calendrical science and chronology, the relation between astronomy and mathematics, and maritime astronomy. This book will be a valuable complement to a future generation of students and researchers who develop an interest in the field of Asian and circum-Pacific history of astronomy.

Image Processing and Capsule Networks

ICIPCN 2020

Springer Nature This book emphasizes the emerging building block of image processing domain, which is known as capsule networks for performing deep image recognition and processing for next-generation imaging science. Recent years have witnessed the continuous development of technologies and methodologies related to image processing, analysis and 3D modeling which have been implemented in the field of computer and image vision. The significant development of these technologies has led to an efficient solution called capsule networks [CapsNet] to solve the intricate challenges in recognizing complex image poses, visual tasks, and object deformation. Moreover, the breakneck growth of computation complexities and computing efficiency has initiated the significant developments of the effective and sophisticated capsule network algorithms and artificial intelligence [AI] tools into existence. The main contribution of this book is to explain and summarize the significant state-of-the-art research advances in the

areas of capsule network [CapsNet] algorithms and architectures with real-time implications in the areas of image detection, remote sensing, biomedical image analysis, computer communications, machine vision, Internet of things, and data analytics techniques.

Artificial Intelligence for Accurate Analysis and Detection of Autism Spectrum Disorder

IGI Global Autism spectrum disorder (ASD) is known as a neuro-disorder in which a person may face problems in interaction and communication with people, amongst other challenges. As per medical experts, ASD can be diagnosed at any stage or age but is often noticeable within the first two years of life. If caught early enough, therapies and services can be provided at this early stage instead of waiting until it is too late. ASD occurrences appear to have increased over the last couple of years leading to the need for more research in the field. It is crucial to provide researchers and clinicians with the most up-to-date information on the clinical features, etiopathogenesis, and therapeutic strategies for patients as well as to shed light on the other psychiatric conditions often associated with ASD. In addition, it is equally important to understand how to detect ASD in individuals for accurate diagnosing and early detection. *Artificial Intelligence for Accurate Analysis and Detection of Autism Spectrum Disorder* discusses the early detection and diagnosis of autism spectrum disorder enabled by artificial intelligence technologies, applications, and therapies. This book will focus on the early diagnosis of ASD through artificial intelligence, such as deep learning and machine learning algorithms, for confirming diagnosis or suggesting the need for further evaluation of individuals. The chapters will also discuss the use of artificial intelligence technologies, such as medical robots, for enhancing the communication skills and the social and emotional skills of children who have been diagnosed with ASD. This book is ideally intended for IT specialists, data scientists, academicians, scholars, researchers, policymakers, medical practitioners, and students interested in how artificial intelligence is impacting the diagnosis and treatment of autism spectrum disorder.

Innovative Advanced Materials for Energy Storage and Beyond

Synthesis, Characterization and Applications

MDPI This highly informative and carefully presented book covers the most recent advances as well as comprehensive reviews addressing novel and state-of-the-art topics from active researchers in innovative advanced materials and hybrid materials, concerning not only their synthesis, preparation, and characterization but especially focusing on the applications of such materials with outstanding performance.

Artificial Intelligence Applications to Smart City and Smart Enterprise

MDPI Smart cities operate under more resource-efficient management and economy than ordinary cities. As such, advanced business models have emerged around smart cities, which led to the creation of smart enterprises and organizations that depend on advanced technologies. This book includes 21 selected and peer-reviewed articles contributed in the wide spectrum of artificial intelligence applications to smart cities. Chapters refer to the following areas of interest: vehicular traffic prediction, social big data analysis, smart city management, driving and routing, localization, safety, health, and life quality.

Cloud-Based Big Data Analytics in Vehicular Ad-Hoc Networks

IGI Global Vehicular traffic congestion and accidents remain universal issues in today's world. Due to the continued growth in the use of vehicles, optimizing traffic management operations is an immense challenge. To reduce the number of traffic accidents, improve the performance of transportation systems, enhance road safety, and protect the environment, vehicular ad-hoc networks have been introduced. Current developments in wireless communication, computing paradigms, big data, and cloud computing enable the enhancement of these networks, equipped with wireless communication capabilities and high-performance processing tools. *Cloud-Based Big Data Analytics in Vehicular Ad-Hoc Networks* is a pivotal reference source that provides vital research on cloud and data analytic applications in intelligent transportation systems. While highlighting topics such as location routing, accident detection, and data warehousing, this publication addresses future challenges in vehicular ad-hoc networks and presents viable solutions. This book is ideally designed for researchers, computer scientists, engineers, automobile industry professionals, IT practitioners, academicians, and students seeking current research on cloud computing models in vehicular networks.

Hybrid Advanced Optimization Methods with

Evolutionary Computation Techniques in Energy Forecasting

MDPI This book is a printed edition of the Special Issue "Hybrid Advanced Optimization Methods with Evolutionary Computation Techniques in Energy Forecasting" that was published in *Energies*

Intelligent Computing and Innovation on Data Science Proceedings of ICTIDS 2019

Springer Nature This book covers both basic and high-level concepts relating to the intelligent computing paradigm and data sciences in the context of distributed computing, big data, data sciences, high-performance computing and Internet of Things. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware systems in high-performance computing and IoT applications. In this context, the book serves as a useful guide for industry practitioners, and also offers beginners a comprehensive introduction to basic and advanced areas of intelligent computing. Further, it provides a platform for researchers, engineers, academics and industrial professionals around the globe to showcase their recent research concerning recent trends. Presenting novel ideas and stimulating interesting discussions, the book appeals to researchers and practitioners working in the field of information technology and computer science.

Blockchain Technology and Applications

CRC Press Blockchain is emerging as a powerful technology, which has attracted the wider attention of all businesses across the globe. In addition to financial businesses, IT companies and business organizations are keenly analyzing and adapting this technology for improving business processes. Security is the primary enterprise application. There are other crucial applications that include creating decentralized applications and smart contracts, which are being touted as the key differentiator of this pioneering technology. The power of any technology lies in its ecosystem. Product and tool vendors are building and releasing a variety of versatile and robust toolsets and platforms in order to speed up and simplify blockchain application development, deployment and management. There are other infrastructure-related advancements in order to streamline blockchain adoption. Cloud computing, big data analytics, machine and deep learning algorithm, and connected and embedded devices all are driving blockchain application development and deployment. Blockchain Technology and Applications illustrates how blockchain is being sustained through a host of platforms, programming languages, and enabling tools. It examines: Data confidentiality, integrity, and authentication Distributed consensus protocols and algorithms Blockchain systems design criteria and systems interoperability and scalability Integration with other technologies including cloud and big data It also details how blockchain is being blended with cloud computing, big data analytics and IoT across all industry verticals. The book gives readers insight into how this path-breaking technology can be a value addition in several business domains ranging from healthcare, financial services, government, supply chain and retail.

Computer Networks and Inventive Communication Technologies

Proceedings of Third ICCNCT 2020

Springer Nature This book is a collection of peer-reviewed best selected research papers presented at 3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2020). The book covers new results in theory, methodology, and applications of computer networks and data communications. It includes original papers on computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings of this conference is a valuable resource, dealing with both the important core and the specialized issues in the areas of next generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practice. It is a reference for researchers, instructors, students, scientists, engineers, managers, and industry practitioners for advance work in the area.

Evolutionary Computing and Mobile Sustainable Networks

Proceedings of ICECMSN 2020

Springer Nature This book features selected research papers presented at the International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020), held at the Sir M. Visvesvaraya Institute of Technology on 20–21 February 2020. Discussing advances in evolutionary computing technologies, including swarm intelligence algorithms and other evolutionary

algorithm paradigms which are emerging as widely accepted descriptors for mobile sustainable networks virtualization, optimization and automation, this book is a valuable resource for researchers in the field of evolutionary computing and mobile sustainable networks.

Advanced Informatics for Computing Research

First International Conference, ICAICR 2017, Jalandhar, India, March 17–18, 2017, Revised Selected Papers

Springer This book constitutes the refereed proceedings of the First International Conference on Advanced Informatics for Computing Research, ICAICR 2017, held in Jalandhar, India, in March 2017. The 32 revised full papers presented were carefully reviewed and selected from 312 submissions. The papers are organized in topical sections on computing methodologies, information systems, security and privacy, network services.

Fuzzy Expert Systems and Applications in Agricultural Diagnosis

Engineering Science Reference "This book examines the use of fuzzy expert systems in the agricultural field"--Provided by publisher.

Intelligent Systems for Healthcare Management and Delivery

IGI Global With the growing use of new technologies and artificial intelligence (AI) applications, intelligent systems can be used to manage large amounts of existing data in healthcare domains. Having more intelligent methods for accessing data allows medical professionals to more efficiently identify the best medical practices and more concrete solutions for diagnosing and treating a multitude of rare diseases. Intelligent Systems for Healthcare Management and Delivery provides relevant and advanced methodological, technological, and scientific approaches related to the application of sophisticated exploitation of AI, as well as providing insight into the technologies and intelligent applications that have received growing attention in recent years such as medical imaging, EMR systems, and drug development assistance. This publication fosters a scientific debate for new healthcare intelligent systems and sophisticated approaches for enhanced healthcare services and is ideally designed for medical professionals, hospital staff, rehabilitation specialists, medical educators, and researchers.

Mass Transfer-II

Nirali Prakashan

Oracle DBA Survival Guide

This hands-on, step-by-step guide provide the detailed information necessary to run your Oracle database smoothly and efficiently. Practical, step-by-step examples teach you the entire Oracle environment - from installation to daily administration and maintenance. Additional chapters give you tips for tuning, optimizing, and hassle-free on-the-fly problem solving. Oracle DBA Survival Guide is the only book you will ever need to efficiently administer your database!

Translational Bioinformatics in Healthcare and Medicine

Academic Press Translational Bioinformatics in Healthcare and Medicine offers an overview of main principles of bioinformatics, biological databases, clinical informatics, health informatics, viroinformatics and real-case applications of translational bioinformatics in healthcare. Written by experts from both technology and clinical sides, the content brings together essential knowledge to make the best of recent advancements of the field. The book discusses topics such as next generation sequence analysis, genomics in clinical care, IoT applications, blockchain technology, patient centered interoperability of EHR, health data mining, and translational bioinformatics methods for drug discovery and drug repurposing. In addition, it discusses the role of bioinformatics in cancer research and viroinformatics approaches to counter viral diseases through informatics. This is a valuable resource for bioinformaticians, clinicians, healthcare professionals, graduate students and several members of biomedical field who are interested in learning more about how bioinformatics can impact in their research and practice. Covers recent advancements in translational bioinformatics and its healthcare applications Discusses integrative and multidisciplinary approaches to U-healthcare systems development and management Bridges the gap among various knowledge domains in the field, integrating both technological and clinical knowledge into practical content

Applications of Big Data and Business Analytics in Management

Emerald Group Publishing Applications of Big Data and Business Analytics in Management uses advanced analytic tools to explore the solutions to problems in society, environment and industry. The chapters within bring together researchers, engineers and practitioners, encompassing a wide and diverse set of topics in almost every field.

Deep Learning Applications for Cyber Security

Springer Cybercrime remains a growing challenge in terms of security and privacy practices. Working together, deep learning and cyber security experts have recently made significant advances in the fields of intrusion detection, malicious code analysis and forensic identification. This book addresses questions of how deep learning methods can be used to advance cyber security objectives, including detection, modeling, monitoring and analysis of as well as defense against various threats to sensitive data and security systems. Filling an important gap between deep learning and cyber security communities, it discusses topics covering a wide range of modern and practical deep learning techniques, frameworks and development tools to enable readers to engage with the cutting-edge research across various aspects of cyber security. The book focuses on mature and proven techniques, and provides ample examples to help readers grasp the key points.

Modern Compiler Design

Springer Science & Business Media "Modern Compiler Design" makes the topic of compiler design more accessible by focusing on principles and techniques of wide application. By carefully distinguishing between the essential (material that has a high chance of being useful) and the incidental (material that will be of benefit only in exceptional cases) much useful information was packed in this comprehensive volume. The student who has finished this book can expect to understand the workings of and add to a language processor for each of the modern paradigms, and be able to read the literature on how to proceed. The first provides a firm basis, the second potential for growth.

PROBLEM SOLVING WITH C

PHI Learning Pvt. Ltd. This self-readable and student-friendly text provides a strong programming foundation to solve problems with C language through its well-supported structured programming methodology, rich set of operators and data types. It is designed to help students build efficient and compact programs. The book, now in its second edition, is an extended version of Dr. M.T. Somashekara's previous book titled as Programming in C. In addition to two newly introduced chapters on 'Graphics using C' and 'Searching and Sorting', all other chapters of the previous edition have been thoroughly revised and updated. The usage of pseudocodes as a problem-solving tool has been explored throughout the book before providing C programming solutions for the problems, wherever necessary. This book comes with an increased number of examples, programs, review questions, programming exercises and interview questions in each chapter. Appendices, glossary, MCQs with answers and solutions to interview questions are given at the end of the book. The book is eminently suitable for students of Computer Science, Computer Applications, and Information Technology at both undergraduate and postgraduate levels. Assuming no previous knowledge of programming techniques, this book is appropriate for all those students who wish to master the C language as a problem-solving tool for application in their respective disciplines. It even caters to the needs of beginners in computer programming. **KEY FEATURES** • Introduction to problem-solving tools like algorithms, flow charts and pseudocodes • Systematic approach to teaching C with simple explanation of each concept • Expanded coverage of arrays, structures, pointers and files • Complete explanation of working of each program with emphasis on the core segment of the program, supported by a large number of solved programs and programming exercises in each chapter **NEW TO THE SECOND EDITION** • Points-wise summary at the end of each chapter • MCQs with Answers • Interview Questions with Solutions • Pseudocodes for all the problems solved using programs • Two new chapters on 'Graphics using C' and 'Searching and Sorting' • Additional review questions and programming exercises

OBJECT ORIENTED PROGRAMMING WITH JAVA

PHI Learning Pvt. Ltd. This self-readable and highly informative text presents the exhaustive coverage of the concepts of Object Oriented Programming with JAVA. A number of good illustrative examples are provided for each concept supported by well-crafted programs, thus making it useful for even those having no previous knowledge of programming. Starting from the preliminaries of the language and the basic principles of OOP, this textbook moves gradually towards advanced concepts like exception handling, multithreaded programming, GUI support by the language through AWT controls, string handling, file handling and basic utility classes. In addition, the well-planned material in the book acts as a precursor to move towards high-end programming in Java, which includes the discussion of Servlets, Java Server Pages, JDBC, Swings, etc. The book is highly suitable for all undergraduate and postgraduate students of computer science, computer applications, computer science and engineering and information technology. **KEY FEATURES** Extensive coverage of syllabi of various Indian universities Comprehensive coverage of the OOP concepts and Core Java Explanation of the concepts using simple and expressive language Complete explanation of the working of each program with more emphasis on the core segment of the program Chapter-end summary, over 230 illustrative programs, around 225 review questions, about 190 true/false questions and over 130 programming exercises

Practical Industrial Data Communications

Best Practice Techniques

Elsevier The objective of this book is to outline the best practice in designing, installing, commissioning and troubleshooting industrial data communications systems. In any given plant, factory or installation there are a myriad of different industrial communications standards used and the key to successful implementation is the degree to which the entire system integrates and works together. With so many different standards on the market today, the debate is not about what is the best - be it Foundation Fieldbus, Profibus, Devicenet or Industrial Ethernet but rather about selecting the most appropriate technologies and standards for a given application and then ensuring that best practice is followed in designing, installing and commissioning the data communications links to ensure they run fault-free. The industrial data communications systems in your plant underpin your entire operation. It is critical that you apply best practice in designing, installing and fixing any problems that may occur. This book distills all the tips and tricks with the benefit of many years of experience and gives the best proven practices to follow. The main steps in using today's communications technologies involve selecting the correct technology and standards for your plant based on your requirements; doing the design of the overall system; installing the cabling and then commissioning the system. Fiber Optic cabling is generally accepted as the best approach for physical communications but there are obviously areas where you will be forced to use copper wiring and, indeed, wireless communications. This book outlines the critical rules followed in installing the data communications physical transport media and then ensuring that the installation will be trouble-free for years to come. The important point to make is that with today's wide range of protocols available, you only need to know how to select, install and maintain them in the most cost-effective manner for your plant or factory - knowledge of the minute details of the protocols is not necessary. An engineer's guide to communications systems using fiber optic cabling, copper cabling and wireless technology Covers: selection of technology and standards - system design - installation of equipment and cabling - commissioning and maintenance Crammed with practical techniques and know how - written by engineers for engineers

Statistical Pattern Recognition

John Wiley & Sons Statistical pattern recognition is a very active area of study and research, which has seen many advances in recent years. New and emerging applications - such as data mining, web searching, multimedia data retrieval, face recognition, and cursive handwriting recognition - require robust and efficient pattern recognition techniques. Statistical decision making and estimation are regarded as fundamental to the study of pattern recognition. Statistical Pattern Recognition, Second Edition has been fully updated with new methods, applications and references. It provides a comprehensive introduction to this vibrant area - with material drawn from engineering, statistics, computer science and the social sciences - and covers many application areas, such as database design, artificial neural networks, and decision support systems. * Provides a self-contained introduction to statistical pattern recognition. * Each technique described is illustrated by real examples. * Covers Bayesian methods, neural networks, support vector machines, and unsupervised classification. * Each section concludes with a description of the applications that have been addressed and with further developments of the theory. * Includes background material on dissimilarity, parameter estimation, data, linear algebra and probability. * Features a variety of exercises, from 'open-book' questions to more lengthy projects. The book is aimed primarily at senior undergraduate and graduate students studying statistical pattern recognition, pattern processing, neural networks, and data mining, in both statistics and engineering departments. It is also an excellent source of reference for technical professionals working in advanced information development environments.

Introduction To Algorithms

MIT Press The first edition won the award for Best 1990 Professional and Scholarly Book in Computer Science and Data Processing by the Association of American Publishers. There are books on algorithms that are rigorous but incomplete and others that cover masses of material but lack rigor. Introduction to Algorithms combines rigor and comprehensiveness. The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor. The first edition became the standard reference for professionals and a widely used text in universities worldwide. The second edition features new chapters on the role of algorithms, probabilistic analysis and randomized algorithms, and linear programming, as well as extensive revisions to virtually every section of the book. In a subtle but important change, loop invariants are introduced early and used throughout the text to prove algorithm correctness. Without changing the mathematical and analytic focus, the authors have moved much of the mathematical foundations material from Part I to an appendix and have included additional motivational material at the beginning.

Computational Thinking for the Modern Problem Solver

CRC Press Through examples and analogies, Computational Thinking for the Modern Problem Solver introduces computational thinking as part of an introductory computing course and shows how computer science concepts are applicable to other fields. It keeps the material accessible and relevant to noncomputer science majors. With numerous color figures, this classroom-tested book focuses on both foundational computer science concepts and engineering topics. It covers abstraction, algorithms, logic, graph theory, social issues of software, and numeric modeling as well as execution control, problem-solving strategies, testing, and data encoding and organizing. The text also discusses fundamental concepts of programming, including variables and assignment, sequential execution,

selection, repetition, control abstraction, data organization, and concurrency. The authors present the algorithms using language-independent notation.

Sustainable Communication Networks and Application Proceedings of ICSCN 2021

Springer This book includes high-quality research papers presented at 3rd International Conference on Sustainable Communication Networks and Applications (ICSCN 2021), which is held at Surya Engineering College (SEC), Erode, India, during 29-30 July 2021. This book includes novel and state-of-the-art research discussions that articulate and report all research aspects, including theoretical and experimental prototypes and applications that incorporate sustainability into emerging applications. The book discusses and articulates emerging challenges in significantly reducing the energy consumption of communication systems and also explains development of a sustainable and energy-efficient mobile and wireless communication network. It includes best selected high-quality conference papers in different fields such as Internet of Things, cloud computing, data mining, artificial intelligence, machine learning, autonomous systems, deep learning, neural networks, renewable energy sources, sustainable wireless communication networks, QoS, network sustainability, and many other related areas.

On Excellence in Teaching

Solution Tree Press Learn from the world's best education researchers, theorists, and staff developers as they present recommendations on effective instruction. The book provides a comprehensive view of instruction from a theoretical, systemic, and classroom perspective. The authors' diverse expertise delivers a wide range of ideas and strategies.

University Research for Innovation

Economica Limited Drawn from the 7th Glion Colloquium held in 2009, this volume considers the role of research universities in an innovation-driven global society. Whether in the "old world" of Europe and North America or in rapidly developing nations, the message is clear: innovation has become the key to prosperity and social well-being in a hypercompetitive global economy. Part I introduces several forms of economic, technological, and social innovation. Part II discusses agents of innovation from the points of view of a research university, industry, and national innovation policies. Part III presents university leaders from long-established and emerging institutions to compare how regional and institutional characteristics shape innovation strategies. Part IV focuses on approaches to innovation at national and institutional levels, including a U.S. approach to energy challenges, the shift of high-tech industry toward open innovation, and the challenges of creating world-class universities. Part V addresses the intellectual character of innovation and its relationship to the university's mission. Today's economy requires not only leadership in innovation but also educated citizens capable of applying technology, talent, and capital in new ways. Institutions of higher learning must collaborate with industry and government to create a climate and culture that enable innovation to thrive.

Data Mining Techniques

Universities Press This Book Addresses All The Major And Latest Techniques Of Data Mining And Data Warehousing. It Deals With The Latest Algorithms For Discussing Association Rules, Decision Trees, Clustering, Neural Networks And Genetic Algorithms. The Book Also Discusses The Mining Of Web Data, Temporal And Text Data. It Can Serve As A Textbook For Students Of Computer Science, Mathematical Science And Management Science, And Also Be An Excellent Handbook For Researchers In The Area Of Data Mining And Warehousing.

Text Book of Microbiology

Preface INTRODUCTION HISTORY OF MICROBIOLOGY EVOLUTION OF MICROORGANISM CLASSIFICATION OF MICROORGANISM NOMENCLATURE AND BERGEY'S MANUAL BACTERIA VIRUSES BACTERIAL VIRUSES PLANT VIRUSES THE ANIMAL VIRUSES ARCHAEA MYCOPLASMA PHYTOPLASMA GENERAL ACCOUNT OF CYANOBACTERIA GRAM -ve BACTERIA GRAM +ve BACTERIA EUKARYOTA APPENDIX-1 Prokaryotes Notable for their Environmental Significance APPENDIX-2 Medically Important Chemoorganotrophs APPENDIX-3 Terms Used to Describe Microorganisms According to Their Metabolic Capabilities QUESTIONS Short & Essay Type Questions; Multiple Choice Questions INDEX.