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BASIC COMPUTER ENGINEERING Engineering Graphics: For RGPV Using Computational Intelligence for the Dark Web and Illicit Behavior Detection Handbook of Research on Security Considerations in Cloud Computing **Machine Vision and Augmented Intelligence—Theory and Applications Machine Intelligence and Smart Systems Detecting and Mitigating Robotic Cyber Security Risks** FUNDAMENTAL OF SOFT COMPUTING **Applied Approach to Privacy and Security for the Internet of Things** Quality Education *Improving E-Commerce Web Applications Through Business Intelligence Techniques* **Large-Scale Data Streaming, Processing, and Blockchain Security 5G and Beyond** Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes Web Semantics for Textual and Visual Information Retrieval **Mobile Platforms, Design, and Apps for Social Commerce Software Engineering** Cyber Security **Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning** Deep Learning Innovations and Their Convergence With Big Data **Intelligence of Things: AI-IoT Based Critical-Applications and Innovations** Social Networking and Computational Intelligence **Web Data Mining and the Development of Knowledge-Based Decision Support Systems Sentiment Analysis and Knowledge Discovery in Contemporary Business BASIC COMPUTER ENGINEERING Advances in Computer Science and Information Technology. Computer Science and Information Technology** Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence **Machine Learning and Deep Learning in Real-Time Applications Proceedings of International Conference on Recent Advancement on Computer and Communication Soft-Computing-Based Nonlinear Control Systems Design Advances in Computer Science, Engineering & Applications Data, Engineering and Applications Contemporary Advances in Science & Technology** Handbook of Research on Pattern Engineering System Development for Big Data Analytics Handbook of Research on Emerging Trends and Applications of Machine Learning **Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications** *Handbook of Research on Software Quality Innovation in Interactive Systems* **Handbook of Research on Emerging Technologies for Electrical Power Planning, Analysis, and Optimization** Artificial Intelligence and Natural Algorithms

Detecting and Mitigating Robotic Cyber Security Risks Apr 27 2022 Risk detection and cyber security play a vital role in the use and success of contemporary computing. By utilizing the latest technological advances, more effective prevention techniques can be developed to protect against cyber threats. Detecting and Mitigating Robotic Cyber Security Risks is an essential reference publication for the latest research on new methodologies and applications in the areas of robotic and digital security. Featuring extensive coverage on a broad range of topics, such as authentication techniques, cloud security, and mobile robotics, this book is ideally designed for students, researchers, scientists, and engineers seeking current research on methods, models, and implementations of optimized security in digital contexts.

Social Networking and Computational Intelligence Dec 12 2020 This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas.

Handbook of Research on Emerging Trends and Applications of Machine Learning Oct 29 2019 As today's world continues to advance, Artificial Intelligence (AI) is a field that has become a staple of technological development and led to the advancement of numerous professional industries. An application within AI that has gained attention is machine learning. Machine learning uses statistical techniques and algorithms to give computer systems the ability to understand and its popularity has circulated through many trades. Understanding this technology and its countless implementations is pivotal for scientists and researchers across the world. The Handbook of Research on Emerging Trends and Applications of Machine Learning provides a high-level understanding of various machine learning algorithms along with modern tools and techniques using Artificial Intelligence. In addition, this book explores the critical role that machine learning plays in a variety of professional fields including healthcare, business, and computer science. While highlighting topics including image processing, predictive analytics, and smart grid management, this book is ideally designed for developers, data scientists, business analysts, information architects, finance agents, healthcare professionals, researchers, retail traders, professors, and graduate students seeking current research on the benefits, implementations, and trends of machine learning.

Web Semantics for Textual and Visual Information Retrieval Aug 20 2021 Modern society exists in a digital era in which high volumes of multimedia information exists. To optimize the management of this data, new methods are emerging for more

efficient information retrieval. Web Semantics for Textual and Visual Information Retrieval is a pivotal reference source for the latest academic research on embedding and associating semantics with multimedia information to improve data retrieval techniques. Highlighting a range of pertinent topics such as automation, knowledge discovery, and social networking, this book is ideally designed for researchers, practitioners, students, and professionals interested in emerging trends in information retrieval.

Applied Approach to Privacy and Security for the Internet of Things Feb 23 2022 From transportation to healthcare, IoT has been heavily implemented into practically every professional industry, making these systems highly susceptible to security breaches. Because IoT connects not just devices but also people and other entities, every component of an IoT system remains vulnerable to attacks from hackers and other unauthorized units. This clearly portrays the importance of security and privacy in IoT, which should be strong enough to keep the entire platform and stakeholders secure and smooth enough to not disrupt the lucid flow of communication among IoT entities. Applied Approach to Privacy and Security for the Internet of Things is a collection of innovative research on the methods and applied aspects of security in IoT-based systems by discussing core concepts and studying real-life scenarios. While highlighting topics including malware propagation, smart home vulnerabilities, and bio-sensor safety, this book is ideally designed for security analysts, software security engineers, researchers, computer engineers, data scientists, security professionals, practitioners, academicians, and students seeking current research on the various aspects of privacy and security within IoT.

Handbook of Research on Emerging Technologies for Electrical Power Planning, Analysis, and Optimization Jul 27 2019 As the demand for efficient energy sources continues to grow around the globe, electrical systems are becoming more essential in an effort to meet these increased needs. As these systems are being utilized more frequently, it becomes imperative to find ways of optimizing their overall function. The Handbook of Research on Emerging Technologies for Electrical Power Planning, Analysis, and Optimization features emergent methods and research in the systemic and strategic planning of energy usage. Highlighting theoretical perspectives and empirical research, this handbook is a comprehensive reference source for researchers, practitioners, students, and professionals interested in the current advancements and efficient use in power systems.

Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Apr 15 2021 Web browsing would not be what it is today without the use of Service-Oriented Architecture (SOA). Although much has been written about SOA methodology, this emerging platform is continuously under development. Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform. Featuring relevant topics such as SOA reference architecture, grid computing applications, complex event computing, and java business integration, this is an ideal resource for all practitioners, academicians, graduate students, and researchers interested in the discoveries on the relationship that Service-Oriented architecture and enterprise service bus share.

Cyber Security May 17 2021 This book comprises select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volume covers diverse topics ranging from information security to cryptography and from encryption to intrusion detection. This book focuses on Cyber Security. It aims at informing the readers about the technology in general and the internet in particular. The book uncovers the various nuances of information security, cyber security and its various dimensions. This book also covers latest security trends, ways to combat cyber threats including the detection and mitigation of security threats and risks. The contents of this book will prove useful to professionals and researchers alike.

Handbook of Research on Disease Prediction Through Data Analytics and Machine Learning Mar 15 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.

Handbook of Research on Software Quality Innovation in Interactive Systems Aug 27 2019 The inclusion of experts in communicability in the software industry has allowed timeframes to speed up in the commercialization of new technological products worldwide. However, this constant evolution of software in the face of the hardware revolution opens up a host of new horizons to maintain and increase the quality of the interactive systems following a set of standardized norms and rules for the production of interactive software. Currently, we see some efforts towards this goal, but they are still partial solutions, incomplete, and flawed from the theoretical as well as practical points of view. If the quality of the interactive design is

analyzed, it is left to professionals to generate systems that are efficient, reliable, user-friendly, and cutting-edge. The Handbook of Research on Software Quality Innovation in Interactive Systems analyzes the quality of the software applied to the interactive systems and considers the constant advances in the software industry. This book reviews the past and present of information and communication technologies with a projection towards the future, along with analyses of software, software design, phrases to use, and the purposes for software applications in interactive systems. This book is ideal for students, professors, researchers, programmers, analysists of systems, computer engineers, interactive designers, managers of software quality, and evaluators of interactive systems.

Engineering Graphics: For RGPV Oct 02 2022

BASIC COMPUTER ENGINEERING Sep 08 2020 Special Features: · Provides simple, clear, and concise language, which makes the book easy and enjoyable to read.· Follows a code centric approach and provides code snippets wherever applicable.· Provides well-structured text and illustrative block diagrams and figures wherever required.· Includes chapter objectives at the beginning of each chapter to describe what the reader would learn in the chapter.· Provides complete code to support various concepts in the C++ language.· Provides step-wise approach for writing different queries related to commands in DBMS.· Includes comprehensive and detailed coverage of each topic to meet the requirements of the target audience. About The Book: This book provides a systematic approach with an in-depth analysis of computer systems as well as operating systems. It explores the different programming languages starting from the basic concepts of C++ and extends up to understanding arrays and functions in C++. The theme of this book is to explore different concepts of computer systems. This book combines techniques with practical advice and many new ideas, methods, and examples related to the C++ language. It covers inheritance of various classes, structures and unions for computer engineering students, system specialists, and programmers. This book is based on the syllabus of Rajiv Gandhi Proudhyogiki Vishwavidyalaya (RGPV) and provides explanation to different concepts with numerous examples and figures. Summing up, this book is a valuable source of information about computer systems, programming in the C++ language, Database Management System (DBMS), and basic networking concepts for engineering first year students.

Intelligence of Things: AI-IoT Based Critical-Applications and Innovations Jan 13 2021 This book presents recent technologies that explore artificial intelligence (AI) and its scope in Internet of Things (IoT) enabled areas for productivity and the betterment of society. The book aims at targeting audiences of several disciplines to share research, suggest solutions, and future trends in the field of AI using IoT. Rather than looking at the field from only a theoretical or only a practical perspective, this book unifies both aspects to give a holistic understanding of the AI paradigm for IoT. The book focuses on timely topics related to the field of AI enabled IoT applications at large. The book consists of four major parts: fundamentals, theoretical discussion, critical applications, and the learning algorithms. These contents shall include the basics, types, tools, and techniques of AI. Finally, applications of AI enabled IoT in several areas are presented including health, security, climate change, agricultural engineering, bioinformatics, biomedicine, smart applications, natural language processing, social and economic implications of AI enabled IoT, as well as robotics, sustainability, risk management, seismic data processing, smart grid management, text analysis, security, privacy, and ethics.

Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence Jul 07 2020 The development of business intelligence has enhanced the visualization of data to inform and facilitate business management and strategizing. By implementing effective data-driven techniques, this allows for advance reporting tools to cater to company-specific issues and challenges. The Handbook of Research on Advanced Data Mining Techniques and Applications for Business Intelligence is a key resource on the latest advancements in business applications and the use of mining software solutions to achieve optimal decision-making and risk management results. Highlighting innovative studies on data warehousing, business activity monitoring, and text mining, this publication is an ideal reference source for research scholars, management faculty, and practitioners.

Handbook of Research on Security Considerations in Cloud Computing Jul 31 2022 Cloud computing has quickly become the next big step in security development for companies and institutions all over the world. With the technology changing so rapidly, it is important that businesses carefully consider the available advancements and opportunities before implementing cloud computing in their organizations. The Handbook of Research on Security Considerations in Cloud Computing brings together discussion on current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting the need for consumers to understand the unique nature of cloud-delivered security and to evaluate the different aspects of this service to verify if it will meet their needs, this book is an essential reference source for researchers, scholars, postgraduate students, and developers of cloud security systems.

Proceedings of International Conference on Recent Advancement on Computer and Communication May 05 2020 The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017) organized by IMPLab Research and Innovation Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital

signal processing, digital electronics, telecommunication technologies, robotics, VLSI technologies, embedded system, satellite communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and research.

Soft-Computing-Based Nonlinear Control Systems Design Apr 03 2020 A critical part of ensuring that systems are advancing alongside technology without complications is problem solving. Practical applications of problem-solving theories can model conflict and cooperation and aid in creating solutions to real-world problems. Soft-Computing-Based Nonlinear Control Systems Design is a critical scholarly publication that examines the practical applications of control theory and its applications in problem solving to fields including economics, environmental management, and financial modelling. Featuring a wide range of topics, such as fuzzy logic, nature-inspired algorithms, and cloud computing, this book is geared toward academicians, researchers, and students seeking relevant research on control theory and its practical applications.

Artificial Intelligence and Natural Algorithms Jun 25 2019 This book informs the reader about applications of Artificial Intelligence (AI) and nature-inspired algorithms in different situations. Each chapter in this book is written by topic experts on AI, nature-inspired algorithms and data science. The basic concepts relevant to these topics are explained, including evolutionary computing (EC), artificial neural networks (ANN), swarm intelligence (SI), and fuzzy systems (FS). Additionally, the book also covers optimization algorithms for data analysis. The contents include algorithms that can be used in systems designed for plant science research, load balancing, environmental analysis and healthcare. The goal of the book is to equip the reader - students and data analysts - with the information needed to apply basic AI algorithms to resolve actual problems encountered in a professional environment.

Data, Engineering and Applications Jan 31 2020 This book presents a compilation of current trends, technologies, and challenges in connection with Big Data. Many fields of science and engineering are data-driven, or generate huge amounts of data that are ripe for the picking. There are now more sources of data than ever before, and more means of capturing data. At the same time, the sheer volume and complexity of the data have sparked new developments, where many Big Data problems require new solutions. Given its scope, the book offers a valuable reference guide for all graduate students, researchers, and scientists interested in exploring the potential of Big Data applications.

Contemporary Advances in Science & Technology Jan 01 2020 Present volume of Contemporary Advances in Science & Technology is focused on Heavy Metal Removal Bioremediations, Impact of the Coronavirus Pandemic on the Lifestyles of Consumers, Salt Stress in vigno mungo and effect of salicylic acid, synthesis of Schiff bases, and study on suicidal cases among students in India, Quantification of Acrylamide and Its Formation In Potato, Modeling and Simulation of Efficient DVB-T System with MIMO Technique.

Quality Education Jan 25 2022

Advances in Computer Science and Information Technology. Computer Science and Information Technology Aug 08 2020 The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on advances in computer science and information technology; and ad hoc and ubiquitous computing.

BASIC COMPUTER ENGINEERING Nov 03 2022 Market_Desc: Primary Market· Undergraduate I Year Engineering student of RGPV, Bhopal (More than 1 lac intake)Course: Basic Computer EngineeringCourse Code: B.E. - 205Secondary Market· Undergraduate first year students of various universities, such as· UPTU (ECS-101/ECS-201 : Computer Concepts and Programming in C)· UTU (Fundamentals of Computer & Programming)· PTU (CS-101 Fundaments of Computer Programming and Information Technology)· RTU (Computer Systems and Programming [104])· GTU (Computer Programming and Utilization)· Anna (GE2112 Fundamentals of Computing and Programming)· JNTU (C Programming and Data Structures)· BPUT (BCSE 3101 PROGRAMMING IN C)· VTU (10CCP13/10CCP23 Computer Concepts and C Programming)· CSVTU (300224 Introduction to Computing) Special Features: · Completely covers the syllabus as a textbook for B.E. first year course Basic Computer Engineering , RGPV (Bhopal) and similar courses in other universities.· Single-handedly caters to the requirements of several engineering disciplines that have this course in their curriculum.· Explains programming in C++ in detail.· Covers operating systems such as Windows, DOS and UNIX; database management systems; data structures; algorithms and C++, without entering into the specifics of programming languages and complex technologies.· Makes liberal use of screenshots to show how the screen would look like after processing the command.· Has increased utility owing to the presence of a large number of examples and illustrations.· Covers programming assignments and experimental portions under specific chapters to take into account the practical nature of the course.· Contains appendices that introduce readers to emerging areas of research such as neural networks and fuzzy logic.· Provides model question papers for practicing questions based on the examination pattern.· Excellent pedagogy having:ü 160+ Figuresü 70+ Tablesü 40+ Programs with outputü 70+ Syntaxes and explanatory examplesü 220+ Objective questionsü 170+ Review questionsü 50+ Programming assignments. About The Book: This book helps in familiarizing students with the basic organization of the computer, and then

moving on to study of the operating systems such as Windows, DOS and UNIX; database management systems; data structures; algorithms and C++, without entering into the specifics of programming languages and complex technologies. It provides an insight into the basics of computers as delineated by the syllabi of RGPV and various reputed Indian universities. This book is suitable for self-study because of clear explanation of the topics, uniformity in presentation, illustration of concepts through numerous examples; and chapters are laced with various screenshots to give an idea as to how the screen would look like while performing that particular step.

Deep Learning Innovations and Their Convergence With Big Data Feb 11 2021 The expansion of digital data has transformed various sectors of business such as healthcare, industrial manufacturing, and transportation. A new way of solving business problems has emerged through the use of machine learning techniques in conjunction with big data analytics. Deep Learning Innovations and Their Convergence With Big Data is a pivotal reference for the latest scholarly research on upcoming trends in data analytics and potential technologies that will facilitate insight in various domains of science, industry, business, and consumer applications. Featuring extensive coverage on a broad range of topics and perspectives such as deep neural network, domain adaptation modeling, and threat detection, this book is ideally designed for researchers, professionals, and students seeking current research on the latest trends in the field of deep learning techniques in big data analytics.

Software Engineering Jun 17 2021 This book presents selected proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. They cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This book focuses on Software Engineering, and informs readers about the state of the art in software engineering by gathering high-quality papers that represent the outcomes of consolidated research and innovations in Software Engineering and related areas. In addition to helping practitioners and researchers understand the chief issues involved in designing, developing, evolving and validating complex software systems, it provides comprehensive information on developing professional careers in Software Engineering. It also provides insights into various research issues such as software reliability, verification and validation, security and extensibility, as well as the latest concepts like component-based development, software process models, process-driven systems and human-computer collaborative systems.

Machine Vision and Augmented Intelligence—Theory and Applications Jun 29 2022 This book comprises the proceedings of the International Conference on Machine Vision and Augmented Intelligence (MAI 2021) held at IIIT, Jabalpur, in February 2021. The conference proceedings encapsulate the best deliberations held during the conference. The diversity of participants in the event from academia, industry, and research reflects in the articles appearing in the volume. The book theme encompasses all industrial and non-industrial applications in which a combination of hardware and software provides operational guidance to devices in the execution of their functions based on the capture and processing of images. This book covers a wide range of topics such as modeling of disease transformation, epidemic forecast, COVID-19, image processing and computer vision, augmented intelligence, soft computing, deep learning, image reconstruction, artificial intelligence in healthcare, brain-computer interface, cybersecurity, and social network analysis, natural language processing, etc.

Handbook of Research on Pattern Engineering System Development for Big Data Analytics Nov 30 2019 Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. It is necessary to develop new techniques for managing data in order to ensure adequate usage. The Handbook of Research on Pattern Engineering System Development for Big Data Analytics is a critical scholarly resource that examines the incorporation of pattern management in business technologies as well as decision making and prediction process through the use of data management and analysis. Featuring coverage on a broad range of topics such as business intelligence, feature extraction, and data collection, this publication is geared towards professionals, academicians, practitioners, and researchers seeking current research on the development of pattern management systems for business applications.

Mobile Platforms, Design, and Apps for Social Commerce Jul 19 2021 While social interactions were once a personal endeavor, more contact is now done virtually. Mobile technologies are an ever-expanding area of research which can benefit users on the organizational level, as well as the personal level. Mobile Platforms, Design, and Apps for Social Commerce is a critical reference source that overviews the current state of personal digital technologies and experiences. Highlighting fascinating topics such as M-learning applications, social networks, mHealth applications and mobile MOOCs, this publication is designed for all academicians, students, professionals, and researchers that are interested in discovering more about how the use of mobile technologies can aid in human interaction.

Machine Learning and Deep Learning in Real-Time Applications Jun 05 2020 Artificial intelligence and its various components are rapidly engulfing almost every professional industry. Specific features of AI that have proven to be vital solutions to numerous real-world issues are machine learning and deep learning. These intelligent agents unlock higher levels of performance and efficiency, creating a wide span of industrial applications. However, there is a lack of research on the specific uses of machine/deep learning in the professional realm. Machine Learning and Deep Learning in Real-Time Applications provides emerging research exploring the theoretical and practical aspects of machine learning and deep learning

and their implementations as well as their ability to solve real-world problems within several professional disciplines including healthcare, business, and computer science. Featuring coverage on a broad range of topics such as image processing, medical improvements, and smart grids, this book is ideally designed for researchers, academicians, scientists, industry experts, scholars, IT professionals, engineers, and students seeking current research on the multifaceted uses and implementations of machine learning and deep learning across the globe.

Using Computational Intelligence for the Dark Web and Illicit Behavior Detection Sep 01 2022 The Dark Web is a known hub that hosts myriad illegal activities behind the veil of anonymity for its users. For years now, law enforcement has been struggling to track these illicit activities and put them to an end. However, the depth and anonymity of the Dark Web has made these efforts difficult, and as cyber criminals have more advanced technologies available to them, the struggle appears to only have the potential to worsen. Law enforcement and government organizations also have emerging technologies on their side, however. It is essential for these organizations to stay up to date on these emerging technologies, such as computational intelligence, in order to put a stop to the illicit activities and behaviors presented in the Dark Web. Using Computational Intelligence for the Dark Web and Illicit Behavior Detection presents the emerging technologies and applications of computational intelligence for the law enforcement of the Dark Web. It features analysis into cybercrime data, examples of the application of computational intelligence in the Dark Web, and provides future opportunities for growth in this field. Covering topics such as cyber threat detection, crime prediction, and keyword extraction, this premier reference source is an essential resource for government organizations, law enforcement agencies, non-profit organizations, politicians, computer scientists, researchers, students, and academicians.

Machine Intelligence and Smart Systems May 29 2022 This book is a collection of peer-reviewed best selected research papers presented at the First International Conference on Machine Intelligence and Smart Systems 2020 (MISS 2020), organized during September 24–25, 2020, in Gwalior, India. The book presents new advances and research results in the fields of machine intelligence, artificial intelligence and smart systems. It includes main paradigms of machine intelligence algorithms, namely (1) neural networks, (2) evolutionary computation, (3) swarm intelligence, (4) fuzzy systems and (5) immunological computation.

Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications Sep 28 2019 Optimization techniques have developed into a modern-day solution for real-world problems in various industries. As a way to improve performance and handle issues of uncertainty, optimization research becomes a topic of special interest across disciplines. Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications presents the latest research trends and developments in the area of applied optimization methodologies and soft computing techniques for solving complex problems. Taking a multi-disciplinary approach, this critical publication is an essential reference source for engineers, managers, researchers, and post-graduate students.

Advances in Computer Science, Engineering & Applications Mar 03 2020 The International conference series on Computer Science, Engineering & Applications (ICCSEA) aims to bring together researchers and practitioners from academia and industry to focus on understanding computer science, engineering and applications and to establish new collaborations in these areas. The Second International Conference on Computer Science, Engineering & Applications (ICCSEA-2012), held in Delhi, India, during May 25-27, 2012 attracted many local and international delegates, presenting a balanced mixture of intellect and research both from the East and from the West. Upon a strenuous peer-review process the best submissions were selected leading to an exciting, rich and a high quality technical conference program, which featured high-impact presentations in the latest developments of various areas of computer science, engineering and applications research.

Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes Sep 20 2021 As technology advances, so must our education system. Cloud computing serves as an ideal method for e-learning thanks to its flexibility, affordability, and availability. Cloud-based learning is especially dynamic in STEM education, as it can significantly lower the cost of building cumbersome computer labs while fostering engaged learning and collaboration among students. The Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes prepares current and future instructors for exciting breakthroughs in STEM education driven by the advancement of cloud technologies. From virtual lab and app construction, to information sharing and course material distribution, this volume touches on a variety of topics related to the benefits and challenges of adopting cloud technologies in the classroom. This book is an invaluable reference for educators, technology professionals, administrators, and education students who wish to become leaders in their fields.

5G and Beyond Oct 22 2021 The Internet of Things (IoT) has seen the eventual shift to the "Internet of Everything" in the recent years, unveiling its ubiquitous presence spanning from smart transports to smart healthcare, from smart education to smart shopping. With the 5G rollouts across the different countries of the world, it raises newer perspectives toward the integration of 5G in IoT. For IoT-based smart devices, 5G not only means speed, but also better stability, efficiency, and more secure connectivity. The reach of 5G in IoT is extending in multifarious areas like self-driving vehicles, smart grids for renewable energy, AI-enabled robots on factory floors, intelligent healthcare services . . . The endless list is the real future of 5G in IoT. Features: Fundamental and applied perspectives to 5G integration in IoT Transdisciplinary vision with aspects of

Artificial Intelligence, Industry 4.0, and hands-on practice tools Discussion of trending research issues in 5G and IoT As 5G technologies catalyze a paradigm shift in the domain of IoT, this book serves as a reference for the researchers in the field of IoT and 5G, proffering the landscape to the trending aspects as well as the key topics of discussion in the years to come.

Improving E-Commerce Web Applications Through Business Intelligence Techniques Dec 24 2021 As the Internet becomes increasingly interconnected with modern society, the transition to online business has developed into a prevalent form of commerce. While there exist various advantages and disadvantages to online business, it plays a major role in contemporary business methods. Improving E-Commerce Web Applications Through Business Intelligence Techniques provides emerging research on the core areas of e-commerce web applications. While highlighting the use of data mining, search engine optimization, and online marketing to advance online business, readers will learn how the role of online commerce is becoming more prevalent in modern business. This book is an important resource for vendors, website developers, online customers, and scholars seeking current research on the development and use of e-commerce.

Web Data Mining and the Development of Knowledge-Based Decision Support Systems Nov 10 2020 Websites are a central part of today's business world; however, with the vast amount of information that constantly changes and the frequency of required updates, this can come at a high cost to modern businesses. Web Data Mining and the Development of Knowledge-Based Decision Support Systems is a key reference source on decision support systems in view of end user accessibility and identifies methods for extraction and analysis of useful information from web documents. Featuring extensive coverage across a range of relevant perspectives and topics, such as semantic web, machine learning, and expert systems, this book is ideally designed for web developers, internet users, online application developers, researchers, and faculty.

Sentiment Analysis and Knowledge Discovery in Contemporary Business Oct 10 2020 In the era of social connectedness, people are becoming increasingly enthusiastic about interacting, sharing, and collaborating through online collaborative media. However, conducting sentiment analysis on these platforms can be challenging, especially for business professionals who are using them to collect vital data. Sentiment Analysis and Knowledge Discovery in Contemporary Business is an essential reference source that discusses applications of sentiment analysis as well as data mining, machine learning algorithms, and big data streams in business environments. Featuring research on topics such as knowledge retrieval and knowledge updating, this book is ideally designed for business managers, academicians, business professionals, researchers, graduate-level students, and technology developers seeking current research on data collection and management to drive profit.

FUNDAMENTAL OF SOFT COMPUTING Mar 27 2022 Description:This book is going to be the first well organized book for soft computing, including all the three major constituents or aspect of soft computing (neural networks, fuzzy logic and evolutionary computation), and hopefully will be proved beneficial for both kind of people; those striving to gain knowledge and those striving to score grades. The book is comprised of each and every topic of soft computing is a vast field of artificial intelligence with very much exploration to real time problems, especially regarding the quench of decision making and automation in the leading AI industries.Key Features:Comprehensive coverage of various aspects of soft computing concepts.Artificial intelligence, Neuro computing, Fuzzy logic Evolutionary computation.Strictly in accordance for the syllabus coverd under UG, PG, and Doctoral courses. (B.E. / B. Tech./ MCA/ M. Tech/ Research Scholars)Simple language, crystal clear approach, straight forward comprehensible presentation.The concepts are duly supported by several examples.Important question papers for every chapters.Table of contents:Chapter 1: Introduction to Neuro-computingChapter 2: Training the Neural networksChapter 3: The unsupervised networksChapter 4: The fuzzy logicChapter 5: The Evolutionary computationChapter 6: Few Auxiliary algorithms

Large-Scale Data Streaming, Processing, and Blockchain Security Nov 22 2021 Data has cemented itself as a building block of daily life. However, surrounding oneself with great quantities of information heightens risks to one's personal privacy. Additionally, the presence of massive amounts of information prompts researchers into how best to handle and disseminate it. Research is necessary to understand how to cope with the current technological requirements. Large-Scale Data Streaming, Processing, and Blockchain Security is a collection of innovative research that explores the latest methodologies, modeling, and simulations for coping with the generation and management of large-scale data in both scientific and individual applications. Featuring coverage on a wide range of topics including security models, internet of things, and collaborative filtering, this book is ideally designed for entrepreneurs, security analysts, IT consultants, security professionals, programmers, computer technicians, data scientists, technology developers, engineers, researchers, academicians, and students.