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SOFT COMPUTING IN DATA ANALYTICS

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON SCDA 2018

Springer *The volume contains original research findings, exchange of ideas and dissemination of innovative, practical development experiences in different fields of soft and advance computing. It provides insights into the International Conference on Soft Computing in Data Analytics (SCDA). It also concentrates on both theory and practices from around the world in all the areas of related disciplines of soft computing. The book provides rapid dissemination of important results in soft computing technologies, a fusion of research in fuzzy logic, evolutionary computations, neural science and neural network systems and chaos theory and chaotic systems, swarm based algorithms, etc. The book aims to cater the postgraduate students and researchers working in the discipline of computer science and engineering along with other engineering branches.*

IMPACT OF AI TECHNOLOGIES ON TEACHING, LEARNING, AND RESEARCH IN HIGHER EDUCATION

IGI Global *Within higher education, there are enormous untapped opportunities for product/services companies, administrators, educators, start-ups. and technology professionals to begin embracing artificial intelligence (AI) across the student ecosystem and infuse innovation into traditional academic processes by leveraging disruptive technologies. This type of human-machine interface presents the immediate potential to change the way we learn, memorize, access, and create information. These solutions present new openings for education for all while fostering lifelong learning in a strengthened model that can preserve the integrity of core values and the purpose of higher education. Impact of AI Technologies on Teaching, Learning, and Research in Higher Education explores the phenomena of the emergence of the use of AI in teaching and learning in higher education, including examining the positive and negative aspects of AI. Recent technological advancements and the increasing speed of adopting new technologies in higher education are discussed in order to predict the future nature of higher education in a world where AI is part of the fabric of universities. The book also investigates educational implications of emerging technologies on the way students learn and how institutions teach and evolve. Finally, challenges for the adoption of these technologies for teaching, learning, student support, and administration are addressed. Highlighting such tools as machine learning, natural language processing, and self-learning systems, this scholarly book is of interest to university administrators, educational software developers, instructional designers, policymakers, government officials, academicians, researchers, and students, as well as international agencies, organizations, and professionals interested in implementing AI in higher education.*

SOFTWARE QUALITY ASSURANCE, TESTING AND METRICS

PHI Learning Pvt. Ltd. *Intended for both undergraduate and postgraduate students of computer science and engineering, information technology, students of computer applications, and working IT professionals, this text describes the practices necessary for the development of quality software. The contents of the book have been framed based on the syllabi prescribed by different Universities and also covers the topics required for working in the IT industry. Based on the experience of the author in the industry, academics, consultancy and corporate trainings in India and abroad, the book covers the methodologies, techniques, and underlying concepts used in Software Quality Assurance and Testing. The treatment of the topics is crisp and accompanied with illustrative examples with minimum jargons. Topics of relevance in the industry, which a student must be familiar with before start of a career, are covered in the book. The book also discusses the concepts that a working IT professional should know. The book provides an insight into the tools available for different types of testing. Each chapter contains Quizzes, Multiple Choice Questions and Review Questions which help the readers to qualify in the international certification examinations. Key features • Covers topics relevant to the industry • Concepts discussed in an easy to understand way and illustrated with practical examples and figures wherever required • Contains “Objective Questions” at the end of the book • Includes topics prescribed in international certification exams in Software Quality and Testing*

PERFORMANCE MANAGEMENT OF INTEGRATED SYSTEMS AND ITS APPLICATIONS IN SOFTWARE ENGINEERING

Springer Nature *This book presents a key solution for current and future technological issues, adopting an integrated system approach with a combination of software engineering applications. Focusing on how software dominates and influences the performance, reliability, maintainability and availability of complex integrated systems, it proposes a comprehensive method of improving the entire process. The book provides numerous qualitative and quantitative analyses and examples of varied systems to help readers understand and interpret the derived results and outcomes. In addition, it examines and reviews foundational work associated with decision and control systems for information systems, to inspire researchers and industry professionals to develop new and integrated foundations, theories, principles, and tools for information systems. It also offers guidance and suggests best practices for the research community and practitioners alike. The book’s twenty-two chapters examine and address current and future research topics in areas like vulnerability analysis, secured software requirements analysis, progressive models for planning and enhancing system efficiency, cloud computing, healthcare management, and integrating data-information-knowledge in decision-making. As such it enables organizations to adopt integrated approaches to system and software engineering, helping them implement technological advances and drive performance. This in turn provides actionable insights on each and every technical and managerial level so that timely action-based decisions can be taken to maintain a competitive edge. Featuring conceptual work and best practices in integrated systems and software engineering applications, this book is also a valuable resource for all researchers, graduate and undergraduate students, and management professionals with an interest in the fields of e-commerce, cloud computing, software engineering, software & system security and analysis, data-information-knowledge systems and integrated systems.*

TEST YOUR SKILLS IN PYTHON - SECOND EDITION

AN INTERACTIVE WAY TO INTRODUCE THE WORLD OF COMPUTER PROGRAMMING (ENGLISH EDITION)

BPB Publications *Best learning Scroll for Python KEY FEATURES ● 16 chapters covering basic (loops) to advanced (NumPy) topics in Python. ● Focus on one topic per chapter to help learners understand topics in depth. ● Key points from Theory highlighted in each chapter for better retention. ● More than 1000 questions that give ample opportunity for practice. ● 7 Model test papers for learners to test their progress. DESCRIPTION This book contains to-the-point theory followed by questions about programming skills in Python. It provides an active and structured way of learning Python. The readers can test their learning by attempting MCQs, True/False questions, and questions about finding the output in a code, identifying the error and much more. The explanations of the answers provide detailed information about the concepts tested. All topics in Python are divided into 16 chapters in this book. These includes Syntax, Input-output, Data types, Strings, Operators and Expressions, Decision Control Statements, Loops, Functions, Lists, Dictionaries, Sets, Tuples, Classes, Files, Graphics, Arrays and Databases. More than 1000 questions are included for all the topics. WHAT YOU WILL LEARN ● Syntax of writing Python programs. ● All possible errors encountered while programming in Python. ● Execution of different constructs in detail. ● Handling graphics and databases in Python. ● Using Arrays in Python. ● Handling programs and files in Python. WHO THIS BOOK IS FOR This book is meant for the students of Undergraduate, postgraduate level and for the beginners in Python. TABLE OF CONTENTS 1. Syntax and Input–Output 2. Data types 3. Strings 4. Operators and Expressions 5. Decision Control statements 6. Loops 7. User- Defined Functions 8. Lists 9. Dictionaries 10. Sets 11. Tuples 12. Classes 13. Files 14. Graphics 15. Arrays (NumPy) 16. Databases Appendix A: Python keywords and their use Appendix B: Operators in Python and their precedence Appendix C: Libraries in Python and common functions Bibliography Model Test Paper 1 (Solved) Model Test Paper 2 (Solved) Model Test Paper 3 (Solved) Model Test Paper 4 (Solved) Model Test Paper 5 (Solved) Model Test Paper 6 (Solved) Model Test Paper 7 (Unsolved)*

HANDBOOK OF RESEARCH ON SECURING CLOUD-BASED DATABASES WITH BIOMETRIC APPLICATIONS

IGI Global *Cloud technologies have revolutionized the way we store information and perform various computing tasks. With the rise of this new technology, the ability to secure information stored on the cloud becomes a concern. The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques. Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.*

TEST YOUR SKILLS IN PYTHON LANGUAGE

BPB Publications *Description:This book gives you an opportunity to check your proficiency in Python by answering the questions in this book. The Programs / commands presented in this book are executed using Python version 3.5.2. The questions are categorized based on various facts of programming in python. The aim is to cover the topics in depth. Detailed explanation of each question helps even a novice learner.Salient features -More than 400 questions for testing skills in Python -Topics covered in sequence for novice readers -Getting started section gives a good start and overview -Questions are represented topic-wise so that a Python programmer can directly go for t--Testing a particular topic -Multiple choice questions with True/False options also -Questions based on output help to learn the programming skills and various in-built functions in Python-Better understanding through detailed explanation -Solved Model test papers help to learn theory questionsTable of Contents:Chapter 1 : Input -OutputChapter 2 : Operators and ExpressionsChapter 3 : Decision Control statementsChapter 4 : FunctionsChapter 5 : LoopsChapter 6 : ListsChapter 7 : StringsChapter 8 : Sets and DictionariesChapter 9 : TuplesChapter 10 : ClassesChapter 11 : FilesChapter 12 : GraphicsChapter 13 : In-built functionsChapter 14 : MiscellaneousAppendix A: Python keywords and their useAppendix B: Operators in Python and their precedence Appendix C: Libraries in Python and common functionsBibliographyModel Test Paper 1 (Solved)Model Test Paper 2 (Solved)Model Test Paper 3 (Unsolved)Model Test Paper 4 (Unsolved)*

ADVANCED INDUSTRIAL WASTEWATER TREATMENT AND RECLAMATION OF WATER

COMPARATIVE STUDY OF WATER POLLUTION INDEX DURING PRE-INDUSTRIAL, INDUSTRIAL PERIOD AND PROSPECT OF WASTEWATER TREATMENT FOR WATER RESOURCE CONSERVATION

Springer Nature

IMPACTS AND CHALLENGES OF CLOUD BUSINESS INTELLIGENCE

IGI Global *Cloud computing provides an easier alternative for starting an IT-based business organization that requires much less of an initial investment. Cloud computing offers a significant edge of traditional computing with big data being continuously transferred to the cloud. For extraction of relevant data, cloud business intelligence must be utilized. Cloud-based tools, such as customer relationship management (CRM), Salesforce, and Dropbox are increasingly being integrated by enterprises looking to increase their agility and efficiency. Impacts and Challenges of Cloud Business Intelligence is a cutting-edge scholarly resource that provides comprehensive research on business intelligence in cloud computing and explores its applications in conjunction with other tools. Highlighting a wide range of topics including swarm intelligence, algorithms, and cloud analytics, this book is essential for entrepreneurs, IT professionals, managers, business professionals, practitioners, researchers, academicians, and students.*

APPLICATIONS OF ROBOTICS IN INDUSTRY USING ADVANCED MECHANISMS

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON ROBOTICS AND ITS INDUSTRIAL APPLICATIONS 2019

Springer Nature *This book shares important findings on the application of robotics in industry using advanced mechanisms, including software and hardware. It presents a collection of recent trends and research on various advanced computing paradigms such as soft computing, robotics, smart automation, power control, and uncertainty analysis. The book constitutes the proceedings of the 1st International Conference on Application of Robotics in Industry using Advanced Mechanisms (ARIAM2019), which offered a platform for sharing original research findings, presenting innovative ideas and applications, and comparing notes on various aspects of robotics. The contributions highlight the latest research and industrial applications of robotics, and discuss approaches to improving the smooth functioning of industries. Moreover, they focus on designing solutions for complex engineering problems and designing system components or processes to meet specific needs, with due considerations for public health and safety, including cultural, societal, and environmental considerations. Taken together, they offer a valuable resource for researchers, scientists, engineers, professionals and students alike.*

PRIVACY VULNERABILITIES AND DATA SECURITY CHALLENGES IN THE IOT

CRC Press *This book discusses the evolution of security and privacy issues in the Internet of Things (IoT). The book focuses on assembling all security- and privacy-related technologies into a single source so that students, researchers, academics, and those in the industry can easily understand the IoT security and privacy issues. This edited book discusses the use of security engineering and privacy-by-design principles to design a secure IoT ecosystem and to implement cyber-security solutions. This book takes the readers on a journey that begins with understanding security issues in IoT-enabled technologies and how these can be applied in various sectors. It walks readers through engaging with security challenges and building a safe infrastructure for IoT devices. The book helps researchers and practitioners understand the security architecture of IoT and the state-of-the-art in IoT countermeasures. It also differentiates security threats in IoT-enabled infrastructure from traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on the security challenges and solutions in RFID and WSNs in IoT. This book aims to highlight the concepts of related technologies and novel findings by researchers through its chapter organization. The primary audience comprises specialists, researchers, graduate students, designers, experts, and engineers undertaking research on security-related issues.*

UNDERSTANDING ENGINEERING MATHEMATICS

Routledge *Studying engineering, whether it is mechanical, electrical or civil relies heavily on an understanding of mathematics. This new textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them to solve real-life engineering problems. It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required. Students who have not studied mathematics for some time will find this an excellent refresher. Each chapter starts with the basics before gently increasing in complexity. A full outline of essential definitions, formulae, laws and procedures are introduced before real world situations, practicals and problem solving demonstrate how the theory is applied. Focusing on learning through practice, it contains examples, supported by 1,600 worked problems and 3,000 further problems contained within exercises throughout the text. In addition, 34 revision tests are included at regular intervals. An interactive companion website is also provided containing 2,750 further problems with worked solutions and instructor materials*

FUNDAMENTALS OF SOFTWARE ENGINEERING

PHI Learning Pvt. Ltd.

PROGRESS IN COMPUTING, ANALYTICS AND NETWORKING

PROCEEDINGS OF ICCAN 2017

Springer *The book focuses to foster new and original research ideas and results in three broad areas: computing, analytics, and networking with its prospective applications in the various interdisciplinary domains of engineering. This is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging real world problems. It also provides insights into the International Conference on Computing Analytics and Networking (ICCAN 2017) which is a premier international open forum for scientists, researchers and technocrats in academia as well as in industries from different parts of the world to present, interact, and exchange the state of art of concepts, prototypes, innovative research ideas in several diversified fields. The book includes invited keynote papers and paper presentations from both academia and industry to initiate and ignite our young minds in the meadow of momentous research and thereby enrich their existing knowledge. The book aims at postgraduate students and researchers working in the discipline of Computer Science & Engineering. It will be also useful for the researchers working in the domain of electronics as it contains some hardware technologies and forthcoming communication technologies.*

DESIGN BASED RESEARCH

ACADEMIC PUBLICATIONS AND CITATIONS

Self *Author Impact*

COMPUTATIONAL INTELLIGENCE IN DATA MINING

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON CIDM 2017

Springer *The International Conference on "Computational Intelligence in Data Mining" (ICCIDM), after three successful versions, has reached to its fourth version with a lot of aspiration. The best selected conference papers are reviewed and compiled to form this volume. The proceedings discusses the latest solutions, scientific results and methods in solving intriguing problems in the fields of data mining, computational intelligence, big data analytics, and soft computing. The volume presents a sneak preview into the strengths and weakness of trending applications and research findings in the field of computational intelligence and data mining along with related field.*

INTELLIGENT COMPUTING IN CONTROL AND COMMUNICATION

PROCEEDING OF THE FIRST INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING IN CONTROL AND COMMUNICATION (ICCC 2020)

Springer Nature *This book consists of peer-reviewed papers presented at the First International Conference on Intelligent Computing in Control and Communication (ICCC 2020). It comprises interesting topics in the field of applications of control engineering, communication and computing technology. As the current world is witnessing the use of various intelligent techniques for their independent problem solving, so this book may have a wide importance for all range of researchers and scholars. The book serves as a reference for researchers, professionals and students from across electrical, electronic and computer engineering disciplines.*

COMPUTATIONAL INTELLIGENCE IN PATTERN RECOGNITION

PROCEEDINGS OF CIPR 2019

Springer *This book presents practical development experiences in different areas of data analysis and pattern recognition, focusing on soft computing technologies, clustering and classification algorithms, rough set and fuzzy set theory, evolutionary computations, neural science and neural network systems, image processing, combinatorial pattern matching, social network analysis, audio and video data analysis, data mining in dynamic environments, bioinformatics, hybrid computing, big data analytics and deep learning. It also provides innovative solutions to the challenges in these areas and discusses recent developments.*

INFORMATION AND COMMUNICATION TECHNOLOGY FOR COMPETITIVE STRATEGIES (ICTCS 2021)

ICT: APPLICATIONS AND SOCIAL INTERFACES

Springer Nature *This book contains best selected research papers presented at ICTCS 2021: Sixth International Conference on Information and Communication Technology for Competitive Strategies. The conference will be held at Jaipur, Rajasthan, India, during December 17–18, 2021. 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. The book is presented in two volumes.*

HAPPINESS UNLIMITED

Amaryllis - an imprint of Manjul Publishing House *In these enlightening and eye-opening conversations, the renowned spiritual mentor, Sister BK Shivani reveals how to create a life of joy, contentment and bliss, because we all have the choice and the power to do so. According to her, the reason why there is so little happiness in the world is dependency. Happiness is not dependent on 'anything' or 'anyone', or found 'anywhere'. We keep delaying our happiness until things are just right in our life. We think we will be happy in the future and then wonder why we are not happy now. Happiness is only possible when we are able to accept everyone as they are, at every moment, in every situation. This book is a medium for the awakening and acceptance of self-responsibility. Helping us choose our thoughts and feelings aligned with our true nature of purity, peace and love. To make us shift from asking to sharing; from holding on to letting go; from expectations to acceptance; from the past and the future to being in the now. Happiness is a 'decision', not a 'consequence'.*

SECURE EDGE COMPUTING

APPLICATIONS, TECHNIQUES AND CHALLENGES

CRC Press *The internet is making our daily life as digital as possible and this new era is called the Internet of Everything (IoE). Edge computing is an emerging data analytics concept that addresses the challenges associated with IoE. More specifically, edge computing facilitates data analysis at the edge of the network instead of interacting with cloud-based servers. Therefore, more and more devices need to be added in remote locations without any substantial monitoring strategy. This increased connectivity and the devices used for edge computing will create more room for cyber criminals to exploit the system's vulnerabilities. Ensuring cyber security at the edge should not be an afterthought or a huge challenge. The devices used for edge computing are not designed with traditional IT hardware protocols. There are diverse-use cases in the context of edge computing and Internet of Things (IoT) in remote locations. However, the cyber security configuration and software updates are often overlooked when they are most needed to fight cyber crime and ensure data privacy. Therefore, the threat landscape in the context of edge computing becomes wider and far more challenging. There is a clear need for collaborative work throughout the entire value chain of the network. In this context, this book addresses the cyber security challenges associated with edge computing, which provides a bigger picture of the concepts, techniques, applications, and open research directions in this area. In addition, the book serves as a single source of reference for acquiring the knowledge on the technology, process and people involved in next generation computing and security. It will be a valuable aid for researchers, higher level students and professionals working in the area.*

NANOMATERIALS FOR WATER REMEDIATION

Walter de Gruyter GmbH & Co KG *The capability to generate potable water from polluted sources is growing in importance as pharmaceuticals, microplastics and waste permeate our soil. Nanotechnology allows for improvements in water remediation technologies by taking advantage of the unique properties of materials at this small scale.*

COMPUTATIONAL INTELLIGENCE TECHNIQUES AND THEIR APPLICATIONS TO SOFTWARE ENGINEERING PROBLEMS

CRC Press *Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization, cost estimation, reliability assessment, defect prediction, maintainability and quality prediction, size estimation, vulnerability prediction, test case selection and prioritization, and much more. The concepts of expert systems, case-based reasoning, fuzzy logic, genetic algorithms, swarm computing, and rough sets are introduced with their applications in software engineering. The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets. Aimed at graduate students and researchers in computer science engineering, software engineering, information technology, this book: Covers various aspects of in-depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta-heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization, software cost estimation, reliability assessment, software defect prediction, and more Highlights swarm intelligence-based optimization solutions for software testing and reliability problems*

INTRODUCTION TO EMBEDDED SYSTEMS, SECOND EDITION

A CYBER-PHYSICAL SYSTEMS APPROACH

MIT Press *An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.*

EMERGING CARBON-BASED NANOCOMPOSITES FOR ENVIRONMENTAL APPLICATIONS

John Wiley & Sons *The book is a comprehensive deep-dive into the developments and advancements of emerging carbon-based nanocomposites for wastewater applications. Science and technology development are tackling one of the world's most pressing concerns—water contamination and effective treatment. Carbon-based nanocomposites have emerged as one of the leading materials in this treatment push because of their properties and high ability for the catalytic degradation of contaminants from aqueous segments. The 10 chapters in this timely book cover the follows areas: Carbon-based nanocomposites for remediation of heavy metals and organic pollutants from wastewater Functional green carbon nanocomposites for heavy-metal treatment in water Green nanocomposites and applications in environmentally-friendly carbon nanomaterials Carbon-based nanocomposites as heterogeneous catalysts for organic reactions in environment-friendly solvents Carbon-based polymer nanocomposite applications Biochar-based adsorbents for the removal of organic pollutants from aqueous systems Carbon nanomaterial-based green nanocomposites The removal of trihalomethanes from water using nanofiltration membranes Nanocomposite materials as electrode materials in microbial fuel cells for the removal of water pollutants Plasmonic smart nanosensors for the determination of environmental pollutants.*

APPLICATION DEVELOPMENT AND DESIGN: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global *Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life. These applications can be utilized across different technological platforms. Application Development and Design: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as software design, mobile applications, and web applications, this multi-volume book is ideally designed for researchers, academics, engineers, professionals, students, and practitioners interested in emerging technology applications.*

SOFT COMPUTING FOR PROBLEM SOLVING

PROCEEDINGS OF SOCPROS 2020, VOLUME 2

Springer Nature

RECENT ADVANCES IN COMMERCE & MANAGEMENT, VOLUME-4

RED'SHINE Publication, Pvt. Ltd.

NANOTECHNOLOGY FOR ENERGY AND ENVIRONMENTAL ENGINEERING

Springer Nature *This book examines the potential applications of nanoscience and nanotechnology to promote eco-friendly processes and techniques for energy and environment sustainability. Covering various aspects of both the synthesis and applications of nanoparticles and nanofluids for energy and environmental engineering, its goal is to promote eco-friendly processes and techniques. Accordingly, the book elaborates on the development of reliable, economical, eco-friendly processes through advanced nanoscience and technological research and innovations. Gathering contributions by researchers actively engaged in various domains of nanoscience and technology, it addresses topics such as nanoparticle synthesis (both top-down and bottom-up approaches); applications of nanomaterials, nanosensors and plasma discharge in pollution control; environmental monitoring; agriculture; energy recovery; production enhancement; energy conservation and storage; surface modification of materials for energy storage; fuel cells; pollution mitigation; and CO2 capture and sequestration. Given its scope, the book will be of interest to academics and researchers whose work involves nanotechnology or nanomaterials, especially as applied to energy and/or environmental sustainability engineering. Graduate students in the same areas will also find it a valuable resource.*

IMPACT OF AI TECHNOLOGIES ON TEACHING, LEARNING, AND RESEARCH IN HIGHER EDUCATION

Information Science Reference *"This book explores the phenomena of the emergence of the use of artificial intelligence and other emerging technologies in teaching and learning in higher education. Recent technological advancements and the increasing speed of adopting new technologies in higher education are explored in order to predict the future nature of higher education in a world where artificial intelligence is part of the fabric of our universities"--*

A JOURNEY IN SEARCH OF HAPPINESS

GET INSPIRED TO LIVE A MEANINGFUL LIFE !!

A Journey In Search of success Happiness is an inspiring story about how a mother motivated her hearing impaired daughter to pursue her PASSION, to live her BEST LIFE. The book emphasizes the importance of HAPPINESS and WELL-BEING, and explains why mere SUCCESS or WEALTH is not worth unless it carries a true meaning for the SELF. On their daughter's twelfth-birthday, the parents take her on a trip to Thailand for 10 days to teach her five life principles to live a MEANINGFUL LIFE: Count Your Blessings Meaning of Success and How to Harness the Power of the Subconscious Mind Happiness Secret Self-Realization Leading a Self-Disciplined Life The mother teaches her daughter the importance of these principles and inculcates various practices of a Game-Changer. From daily conversations with her father, the daughter understands her mother's real-life journey in search of happiness, that inspires her to face painful situations and failures with COURAGE. What happens to this deaf girl at the end? - It must be explored by the reader. With real-life examples of Game-Changers, the book details the ART OF LIVING. It portrays the importance of positive attitude and self-exploration to pursue your dreams without living others' life for the sake of society. The book details ' Why ' and ' How ' YOU (your thoughts) are responsible for shaping YOUR destiny, but not GOD.

MEDICAL IMAGING: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global *Medical imaging has transformed the ways in which various conditions, injuries, and diseases are identified, monitored, and treated. As various types of digital visual representations continue to advance and improve, new opportunities for their use in medical practice will likewise evolve. Medical Imaging: Concepts, Methodologies, Tools, and Applications presents a compendium of research on digital imaging technologies in a variety of healthcare settings. This multi-volume work contains practical examples of implementation, emerging trends, case studies, and technological innovations essential for using imaging technologies for making medical decisions. This comprehensive publication is an essential resource for medical practitioners, digital imaging technologists, researchers, and medical students.*

MASTERING MACHINE LEARNING WITH R

Packt Publishing Ltd *Master machine learning techniques with R to deliver insights for complex projects About This Book Get to grips with the application of Machine Learning methods using an extensive set of R packages Understand the benefits and potential pitfalls of using machine learning methods Implement the numerous powerful features offered by R with this comprehensive guide to building an independent R-based ML system Who This Book Is For If you want to learn how to use R's machine learning capabilities to solve complex business problems, then this book is for you. Some experience with R and a working knowledge of basic statistical or machine learning will prove helpful. What You Will Learn Gain deep insights to learn the applications of machine learning tools to the industry Manipulate data in R efficiently to prepare it for analysis Master the skill of recognizing techniques for effective visualization of data Understand why and how to create test and training data sets for analysis Familiarize yourself with fundamental learning methods such as linear and logistic regression Comprehend advanced learning methods such as support vector machines Realize why and how to apply unsupervised learning methods In Detail Machine learning is a field of Artificial Intelligence to build systems that learn from data. Given the growing prominence of R—a cross-platform, zero-cost statistical programming environment—there has never been a better time to start applying machine learning to your data. The book starts with introduction to Cross-Industry Standard Process for Data Mining. It takes you through Multivariate Regression in detail. Moving on, you will also address Classification and Regression trees. You will learn a couple of “Unsupervised techniques”. Finally, the book will walk you through text analysis and time series. The book will deliver practical and real-world solutions to problems and variety of tasks such as complex recommendation systems. By the end of this book, you will gain expertise in performing R machine learning and will be able to build complex ML projects using R and its packages. Style and approach This is a book explains complicated concepts with easy to follow theory and real-world, practical applications. It demonstrates the power of R and machine learning extensively while highlighting the constraints.*

SILICA-BASED ORGANIC-INORGANIC HYBRID NANOMATERIALS: SYNTHESIS, FUNCTIONALIZATION AND APPLICATIONS IN THE FIELD OF CATALYSIS

World Scientific *Currently the field of nanocatalysis is undergoing many exciting developments and the design of silica-based organic-inorganic hybrid nanocatalysts is a key focus of the researchers working in this field.This book aims to present a succinct overview of the recent research progress directed towards the fabrication of silica-based organic-inorganic hybrid catalytic systems encompassing the key advantages of silica nanoparticles and silica-coated magnetic nanoparticles in an integrated manner. Featuring comprehensive descriptions of almost all approaches utilized for the synthesis of nanomaterials including some latest techniques such as flow and microwave-assisted synthesis that enable large-scale synthesis, it proves useful not only to academics but also industrialists. It also includes a systematic discussion on the vital characterization techniques employed for authenticating the structure of these.The title also offers an enormous amount of knowledge about the fusion of nanotechnology with green chemistry that strives to meet the scientific challenges of protecting human health and the environment.*

HANDBOOK OF RESEARCH ON DIVERSE APPLICATIONS OF NANOTECHNOLOGY IN BIOMEDICINE, CHEMISTRY, AND ENGINEERING

IGI Global *As a paradigm for the future, micro-scale technology seeks to fuse revolutionary concepts in science and engineering and then translate it into reality. Nanotechnology is an interdisciplinary field that aims to connect what is seen with the naked eye and what is unseen on the molecular level. The Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering examines the strengths and future potential of micro-scale technologies in a variety of industries. Highlighting the benefits, shortcomings, and emerging perspectives in the application of nano-scale technologies, this book is a comprehensive reference source for synthetic chemists, engineers, graduate students, and researchers with an interest in the multidisciplinary applications, as well as the ongoing research in the field.*

SOFTWARE ENGINEERING FRAMEWORKS FOR THE CLOUD COMPUTING PARADIGM

Springer Science & Business Media *This book presents the latest research on Software Engineering Frameworks for the Cloud Computing Paradigm, drawn from an international selection of researchers and practitioners. The book offers both a discussion of relevant software engineering approaches and practical guidance on enterprise-wide software deployment in the cloud environment, together with real-world case studies. Features: presents the state of the art in software engineering approaches for developing cloud-suitable applications; discusses the impact of the cloud computing paradigm on software engineering; offers guidance and best practices for students and practitioners; examines the stages of the software development lifecycle, with a focus on the requirements engineering and testing of cloud-based applications; reviews the efficiency and performance of cloud-based applications; explores feature-driven and cloud-aided software design; provides relevant theoretical frameworks, practical approaches and future research directions.*

MATERIALS SCIENCE AND ENGINEERING: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global *The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.*

ICCCE 2021

PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON COMMUNICATIONS AND CYBER PHYSICAL ENGINEERING

Springer Nature *This book is a collection of research articles presented at the 4th International Conference on Communications and Cyber-Physical Engineering (ICCCE 2021), held on April 9 and 10, 2021, at CMR Engineering College, Hyderabad, India. ICCCE is one of the most prestigious conferences conceptualized in the field of networking and communication technology offering in-depth information on the latest developments in voice, data, image, and multimedia. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image, and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry. This book is a valuable resource for scientists, research scholars, and PG students working to formulate their research ideas and find the future directions in these areas. Further, it may serve as a reference work to understand the latest engineering and technologies used by practicing engineers in the field of communication engineering.*

A LOVER WHO COULD NOT BE A DATER

Damick Publications *It is not to inspire. It is not to bring change. It is not to make you fall in love. Rather it is a story that will throw questions at you. And you will search for the answers. A fictional account of reality. It is the story of Arun. "Why are you running away from love?” The cupid asks. “Because I fear that my loyalty will again get betrayed. I don’t want to lose my faith in love by falling in love again." Arun sighs. “But this happens; right? It is a part of life. We all love and move on with other relationships. Then get married to someone and claim to settle down. The daily grueling chores of life takes over the romance that once tugged at your heartstrings. The reality hits you. And then you work hard and live for the future. Is not it that simple? Everyone loves. Some have future and some do not. So why complain?” The cupid throws the societal rule book at Arun. “No. It is not that simple. So how much reality do you know? Will you be the same person if you get to know what lies beneath the life you are living? What if you find out the behind the scenes maneuvers? Will you be able to believe the way you once believed? Can you really forget everything and accept life as it is?” Arun asks. But Why? To know, read his story.*

CYBER-PHYSICAL, IOT, AND AUTONOMOUS SYSTEMS IN INDUSTRY 4.0

CRC Press *This book addresses topics related to the Internet of Things (IoT), machine learning, cyber-physical systems, cloud computing, and autonomous vehicles in Industry 4.0. It investigates challenges across multiple sectors and industries and considers Industry 4.0 for operations research and supply chain management. Cyber-Physical, IoT, and Autonomous Systems in Industry 4.0 encourages readers to develop novel theories and enrich their knowledge to foster sustainability. It examines the recent research trends and the future of cyber-physical systems, IoT, and autonomous systems as they relate to Industry 4.0. This book is intended for undergraduates, postgraduates, academics, researchers, and industry individuals to explore new ideas, techniques, and tools related to*

Industry 4.0.