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Quality Education and International Partnership for Textile and Fashion Springer Nature

This book constitutes the refereed proceedings of the 24th International Conference on Information and Software Technologies, ICIST 2018, held in Vilnius, Lithuania, in October 2018. The 48 papers presented were carefully reviewed and selected from 124 submissions. The papers are organized in topical sections on information systems; business intelligence for

information and software systems; software engineering; and information technology applications.

Grey Data Analysis IGI Global

Computational Intelligence techniques have been widely explored in various domains including forensics. Analysis in forensic encompasses the study of pattern analysis that answer the question of interest in security, medical, legal, genetic studies and etc. However, forensic analysis is usually performed through experiments in lab which is expensive both in cost and time. Therefore, this book seeks to explore the progress and advancement of computational intelligence technique in different focus areas of forensic studies. This aims to build stronger connection between computer scientists and forensic field experts. This book, Computational Intelligence in Digital Forensics: Forensic Investigation and Applications, is the first volume in the Intelligent Systems Reference Library series. The book presents original research results and innovative applications of computational intelligence in digital forensics. This edited volume contains seventeen chapters and

presents the latest state-of-the-art advancement of Computational Intelligence in Digital Forensics; in both theoretical and application papers related to novel discovery in intelligent forensics. The chapters are further organized into three sections: (1) Introduction, (2) Forensic Discovery and Investigation, which discusses the computational intelligence technologies employed in Digital Forensic, and (3) Intelligent Forensic Science Applications, which encompasses the applications of computational intelligence in Digital Forensic, such as human anthropology, human biometrics, human by products, drugs, and electronic devices.

Information and Software Technologies CRC Press

This book summarizes all different fields of cotton fiber, including genetics, fiber chemistry, soft materials, textile, and fashion engineering. It also contains some new applications such as biomaterials, nanocoated smart fabrics, and functional textiles. Moreover, the significant improvement recently in gene modification and gene technology is introduced. This book discusses all these aspects in a more straightforward way, and new illustrations will help readers to understand the contents. It is intended for undergraduate and graduate students who are interested in cotton science and processing technologies, researchers investigating the updated applications of cotton in various fields as well as industrialists who want to have a quick review of the cotton and its different stages.

Research Outlook, Innovations & Research Trends in Science & Technology IWA Publishing

There are a lot of e-business security concerns. Knowing about e-business security issues will likely help overcome them. Keep in mind, companies that have control over their e-business are likely to prosper most. In other words, setting up and maintaining a secure e-business is essential and important to business growth. This book covers state-of-the art practices

in e-business security, including privacy, trust, security of transactions, big data, cloud computing, social network, and distributed systems.

Computational Intelligence in Digital Forensics: Forensic Investigation and Applications Springer

The papers in this volume aim at obtaining a common understanding of the challenging research questions in web applications comprising web information systems, web services, and web interoperability; obtaining a common understanding of verification needs in web applications; achieving a common understanding of the available rigorous approaches to system development, and the cases in which they have succeeded; identifying how rigorous software engineering methods can be exploited to develop suitable web applications; and at developing a European-scale research agenda combining theory, methods and tools that would lead to suitable web applications with the potential to implement systems for computation in the public domain.

Applications of Computing, Automation and Wireless Systems in Electrical Engineering CRC Press

HCTL Open Science and Technology Letters (HCTL Open STL) is an international, open-access, peer-reviewed journal devoted to various disciplines of Science and Technology published (bi-monthly) by HCTL Open Publications Solutions and Hybrid Computing Technology Labs, India. - Get more information at: <http://stl.hctl.org/>

Artificial Intelligence and Evolutionary Algorithms in Engineering Systems Springer

Economically disadvantaged communities in many regions around the world are making concerted efforts to become

integrated into the global information society. The adoption and use of an array of technology tools and services by these communities will pave the way for their inclusion. Adoption and Use of Technology Tools and Services by Economically Disadvantaged Communities: Implications for Growth and Sustainability examines the challenges facing economically disadvantaged communities with respect to their digital divide and emerging opportunities as they adopt modern ICT tools and services for growth and sustainability. Focus is given to research on ICT adoption, use, and impact on lives, businesses, and societies. Covering topics such as the digital divide, food traceability, and big data analytics, this premier reference source is an excellent resource for sociologists, government officials, community leaders, students and educators of higher education, librarians, researchers, and academicians. Data Science Walter de Gruyter GmbH & Co KG Maritime Technology and Engineering 3 is a collection of papers presented at the 3rd International Conference on Maritime Technology and Engineering (MARTECH 2016, Lisbon, Portugal, 4-6 July 2016). The MARTECH Conferences series evolved from biannual national conferences in Portugal, thus reflecting the internationalization of the maritime sector. The keynote lectures and the papers, making up nearly 150 contributions, came from an international group of authors focused on different subjects in a variety of fields: Maritime Transportation, Energy Efficiency, Ships in Ports, Ship Hydrodynamics, Ship Structures, Ship Design, Ship Machinery, Shipyard Technology, Safety & Reliability,

Fisheries, Oil & Gas, Marine Environment, Renewable Energy and Coastal Structures. This book will appeal to academics, engineers and professionals interested or involved in these fields.

Proceedings of the 4th International Conference on IS Management and Evaluation Springer

This book constitutes the refereed proceedings of the 21th International Conference on Information and Software Technologies, ICIST 2015, held in Druskininkai, Lithuania, in October 2015. The 51 papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on information systems; business intelligence for information and software systems; software engineering; information technology applications.

Information and Software Technologies Alborear (OPC) Pvt. Ltd.

This book is focused predominantly on academicians, research scholars belong to science and engineering, managers, scientists, technicians, and other professionals in the field of qualitative research. This book is comprehended from different sources of research in Science and Technology. On the first occasion, the task of providing researchers with a broad view of the relationship between science and technology. The second reason for writing the book was the need to fill a gap in academics and research.

While many excellent books, documents, and articles exist for innovative practices, we have not found a work in which we can properly understand the content that the researcher needs to understand. So, after much deliberation, we decided to collect all quality efforts in one string. At the most basic level, this book is trying to show research scholars; what science, technology, and innovations are all about. It cannot study or gain knowledge of that part and is at a level that most researchers should find clear and understandable. Our goal was to develop content that will help researchers who are beginning to use innovative practices. We hope to meet the needs of academicians, research scholars who are being encouraged to incorporate more reading and writing in the field of science and technology. In summary, this book is targeted to the needs of individuals engaged in quality research activities in science and technology. Our goal is to present the topics of creativity and innovation to this audience in a way that enables them to incorporate new skills into their daily work. We would like to thank all the contributors who have made the production of this book so fascinating and enjoyable. Their scholarship and dedicated commitment and motivation to 'getting it right' are the keys to the book's quality, and we greatly appreciate their good nature over many months in the face of our editorial demands and time limits. We are also grateful for using their texts, ideas, and critical remarks. We would also like to thank Prof Dr Nilam N Ghuge, Prof Dr D Ayub Khan Dawood, Prof Dr Vilas A Pharande, all reviewers and all authors for their help in consolidating the interdisciplinary of the book. We are grateful to all the 18 institutions for their support. It will not be possible to bring out this edition.

Handbook of e-Business Security HCTL Open Publications Solutions, India

This new edition of a well-established textbook covers the environmental and engineering aspects of the management of rainwater and wastewater in areas of human development. Urban Drainage deals comprehensively not only with the design of new systems, but also the analysis and upgrading of existing infrastructure. Keeping its balance of principles, practice and research, this new edition has significant new material on modelling, resilience, smart systems, and the global and local context. The two new authors bring further research and practice-based experience. This is an essential text for undergraduate and graduate students, lecturers and researchers in water engineering, environmental engineering, public health engineering, engineering hydrology, and related non-engineering disciplines. It also serves as a dependable reference for drainage engineers in water service providers, local authorities, and for consulting engineers. Extensive examples are used to support and demonstrate the key issues throughout the text.

Engineering Challenges for Sustainable Future CRC Press

For over 80 years, the National Society of Professional Engineers (NSPE) has been a leader in the promotion of ethical practice within the field of engineering. One of the Society's greatest contributions is the formation and adoption of the NSPE Code of Ethics. But the code, with its six "Fundamental Canons," is only truly instructive if engineers can bridge the gap between principles and action. Here there is no substitute for personal reflection on the ethical and philosophical issues that underlie the code. If done well, such reflection provides an indispensable basis for moral problem solving. *Beyond the Code: A Philosophical Guide to Engineering Ethics* is designed to complement the NSPE Code of Ethics by helping readers "go beyond" in their understanding of the philosophical issues bound up in the code. Each chapter addresses one of the Fundamental Canons of the NSPE code, and provides a philosophical analysis of the various parts of each canon by employing contemporary and classical texts. This unique approach to engineering ethics guides students and professionals in their readings of the appended selections to refine their understanding of the code in order to apply it to the practical challenges of today's engineers. **Key Features:** Is the first introduction to engineering

ethics that helps students understand and apply the NSPE Code of Ethics to engineering practice Includes a Preface from Arthur E. Schwartz, NSPE Deputy Executive Director and General Counsel, and NAFE Executive Director As a hybrid text, includes primary philosophical texts with extensive introductions and guided reading questions from the book's three authors Offers case studies from the NSPE Board of Ethical Review, allowing students to see a direct connection between the issues discussed in the text and real-world engineering practice Includes the following pedagogical aids: "Key Terms and Concepts" for each chapter "Preparing to Read" sections before each primary source reading "Guided Reading Questions" after each primary source reading "Going Beyond—Our Questions for a Deep Dive" after each case study.

Adoption and Use of Technology Tools and Services by Economically Disadvantaged Communities: Implications for Growth and Sustainability Woodhead Publishing
The book is a collection of high-quality peer-reviewed research papers presented in Proceedings of International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems (ICAEEES 2014) held at Noorul Islam Centre for Higher Education, Kumaracoil, India. These research papers provide the latest developments in the broad area of use of artificial intelligence and evolutionary algorithms in engineering systems. The book discusses wide variety of industrial,

engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

New Approaches to Data Analytics and Internet of Things Through Digital Twin BoD – Books on Demand

Handbook of Advances in Braided Composite Materials: Theory, Production, Testing and Applications focuses on the fundamentals of these materials and their associated technology. It provides a one-stop resource that outlines all the significant issues about structural braiding, providing readers with the means by which to produce, test, and design braided composite material structures. It documents the latest research findings into these advanced materials and provides new ideas to encourage greater use of the technology. Introduces new modeling and testing procedures Presents up-to-date technology developments and recent research findings Provides both an Android and iPhone App to support design criteria Handbook of Advances in Braided Composite Materials BoD – Books on Demand

Even though many data analytics tools have been developed in the past years, their usage in the field of cyber twin warrants new approaches that consider various aspects including unified data representation, zero-day attack detection, data sharing across threat detection systems, real-time analysis, sampling, dimensionality reduction, resource-constrained data processing, and time series analysis for anomaly

detection. Further study is required to fully understand the opportunities, benefits, and difficulties of data analytics and the internet of things in today ' s modern world. New Approaches to Data Analytics and Internet of Things Through Digital Twin considers how data analytics and the internet of things can be used successfully within the field of digital twin as well as the potential future directions of these technologies. Covering key topics such as edge networks, deep learning, intelligent data analytics, and knowledge discovery, this reference work is ideal for computer scientists, industry professionals, researchers, scholars, practitioners, academicians, instructors, and students.

Machine Learning-Based Modelling in Atomic Layer Deposition Processes CRC Press

Spacecraft Dynamics and Control: The Embedded Model Control Approach provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model-based control, using state-space equations as the key paradigm for simulation, design and implementation. The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems. The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment. The model is compelled to include disturbance

dynamics as a repository of the uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class. The source of the real-time uncertainty estimation/prediction is the model error signal, as it encodes the residual discrepancies between spacecraft measurements and model output. The embedded model and the uncertainty estimation feedback (noise estimator in the book) constitute the state predictor feeding the control law. Asymptotic pole placement (exploiting the asymptotes of closed-loop transfer functions) is the way to design and tune feedback loops around the embedded model (state predictor, control law, reference generator). The design versus the uncertainty class is driven by analytic stability and performance inequalities. The method is applied to several attitude and orbit control problems. The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes: state-space dynamics and Embedded Model Control. Fundamentals of orbit, attitude and environment dynamics are treated giving emphasis to state-space formulation, disturbance dynamics, state feedback and prediction, closed-loop stability. Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors. Numerical tables are included and their data employed for numerical simulations. Orbit and attitude control

problems of the European GOCE mission are the inspiration of numerical exercises and simulations. The suite of the attitude control modes of a GOCE-like mission is designed and simulated around the so-called mission state predictor. Solved and unsolved exercises are included within the text - and not separated at the end of chapters - for better understanding, training and application. Simulated results and their graphical plots are developed through MATLAB/Simulink code.

Spacecraft Dynamics and Control Springer Nature
Rapid industrial growth has witnessed the ever-increasing utilization of sand from rivers for various construction purposes, which has caused disruption to natural ecosystems. Sustainable Construction Materials: Recycled Spent Garnet presents an investigation into the capacity for these minerals to serve as a sand replacement and as a viable, sustainable construction material to help mitigate the current rate of exploitation of river sand. Features: Presents the effects of spent garnet on the fresh and hardened characteristics of self-compacting geopolymer concrete in terms of workability and mechanical strength. Examines spent garnet with regard to concrete durability in response to carbonation, as well as sulphate and acid attack. Includes a comprehensive review of the existing literature in the field, including past developments in self-compacting geopolymer concrete, as well as the ongoing activities in the field of spent garnet-based concrete production.

Sustainable Construction Materials University of Pittsburgh Press

This book gathers selected high-impact articles from the 2nd International Conference on Data Science, Machine Learning & Applications 2020. It highlights the latest developments in the areas of artificial intelligence, machine learning, soft computing, human – computer interaction and various data science and machine learning applications. It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of perspectives, practices and technical expertise.

HCTL Open Science and Technology Letters (STL) Springer
Owing to climate change related uncertainties and anticipated population growth, different parts of the developing and the developed world (particularly urban areas) are experiencing water shortages or flooding and security of fit-for-purpose supplies is becoming a major issue. The emphasis on decentralized alternative water supply systems has increased considerably. Most of the information on such systems is either scattered or focuses on large scale reuse with little consideration given to decentralized small to medium scale systems. *Alternative Water Supply Systems* brings together recent research into the available and innovative options and additionally shares experiences from a wide range of contexts from both developed and developing countries. *Alternative Water Supply Systems* covers technical, social, financial and institutional aspects associated with decentralized alternative water supply systems. These include systems for greywater

recycling, rainwater harvesting, recovery of water through condensation and sewer mining. A number of case studies from the UK, the USA, Australia and the developing world are presented to discuss associated environmental and health implications. The book provides insights into a range of aspects associated with alternative water supply systems and an evidence base (through case studies) on potential water savings and trade-offs. The information organized in the book is aimed at facilitating wider uptake of context specific alternatives at a decentralized scale mainly in urban areas. This book is a key reference for postgraduate level students and researchers interested in environmental engineering, water resources management, urban planning and resource efficiency, water demand management, building service engineering and sustainable architecture. It provides practical insights for water professionals such as systems designers, operators, and decision makers responsible for planning and delivering sustainable water management in urban areas through the implementation of decentralized water recycling. Authors: Fayyaz Ali Memon, Centre for Water Systems, University of Exeter, UK and Sarah Ward, Centre for Water Systems, University of Exeter, UK

Urban Drainage IGI Global

Advances in Computers, Volume 107, the latest volume in a series published since 1960, presents detailed coverage of innovations in computer hardware, software, theory, design and applications. Chapters in this updated volume include *Advances in Model-based Analysis and Testing*, *Advances in Software Quality Assurance*, *Advances in Handling Uncertainty in Testing*, *Advances in Testing of Communicating Systems*, and *Advances in Formal Verification and Cyber-physical Systems*. This book

provides contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow. Provides in-depth surveys and tutorials on new computer technology Presents well-known authors and researchers in the field Includes extensive bibliographies with most chapters Volumes are devoted to single themes or subfields of computer science