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Research Outlook, Innovations &
Research Trends in Science &
Technology Walter de Gruyter GmbH
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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.

Cotton Science and Processing Technology Springer

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 Design and Construction in Africa Routledge Building Smart, Resilient and Sustainable Infrastructure in Developing Countries contains the papers presented at the International Conference on Development and Investment in Infrastructure (DII-2022). The contributions cover a wide range

of topics related to infrastructure issues on the African continent: Sustainable Infrastructure Development Smart Infrastructure and Cities Quality and Resilient Infrastructure Education, Empowerment, Gender Equity, Wellness and Development Environmental and Waste Management/Facilities & Real-Estate Management Infrastructure, Investment and Finance- Trends and Forecasts Infrastructure: Shock Events, Procurement, Project Management, Health & Safety Infrastructure: Economic, Social/Environmental Sustainability Digital Innovation and transition in the built environment Building Smart, Resilient and Sustainable Infrastructure in Developing Countries evaluates innovations, empowerment, growth and sustainable development of infrastructure development in Africa, and aims at administrators, academics, and professionals.

Urban Drainage Routledge

This book discusses key concepts,

challenges and potential solutions in connection with established and emerging topics in advanced computing, renewable energy and network communications. Gathering edited papers presented at MARC 2018 on July 19, 2018, it will help researchers pursue and promote advanced research in the fields of electrical engineering, communication, computing and manufacturing.

Grey Data Analysis IGI Global

Organic pollutants cause several environmental problems if discharged to air or water body.

The occurrence of organic pollutants in the ecosystem, their risk and removal methods are very important issues .This book deals with several aspects of organic pollutants, especially

in the light of organic pollutants monitoring, risk infrastructure. Keeping its balance of principles, assessment as well as the practical application of practice and research, this new edition has different techniques for removing it from the significant new material on modelling, environment. The book is divided into three resilience, smart systems, and the global and sections contains 9 chapters. The first section local context. The two new authors bring explains monitoring of organic pollutants in soil further research and practice-based experience. and water. The second section discusse its risk This is an essential text for undergraduate and to human, soil and plants. The third section graduate students, lecturers and researchers in focuse on the different treatment process for the water engineering, environmental engineering, removal of organic pollutants. public health engineering, engineering Machine Learning-Based Modelling in Atomic hydrology, and related non-engineering Layer Deposition Processes Springer disciplines. It also serves as a dependable This new edition of a well-established textbook reference for drainage engineers in water service covers the environmental and engineering providers, local authorities, and for consulting aspects of the management of rainwater and engineers. Extensive examples are used to wastewater in areas of human development. support and demonstrate the key issues Urban Drainage deals comprehensively not throughout the text. only with the design of new systems, but also Engineering Science CRC Press the analysis and upgrading of existing 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.

Advances in Computers Springer

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.

Quality Education and International Partnership for Textile and Fashion CRC Press

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 (ICAEES 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.

Engineering Challenges for Sustainable Future
Academic Press

This book addresses some of the countless challenges faced by developing countries when adopting sustainable design and construction and offers suggestions for the

way forward for African development projects. The authors argue that the pervasive non-consideration of the interrelationship between the elements of sustainable design and construction is the reason for the current failures in sustainable design and construction in developed countries. By treating sustainability as a complex system, the authors provide the missing link between the design and construction of projects in a sustainable way with a view to improving industry and project performance. In doing so the book posits the need for improved sustainability practice in developing countries, lessons for developing countries from the successes and failures of sustainability adoption by developed nations, factors influencing

adoption of sustainability and effects of sustainable designs and construction on productivity, human health and the environment at large. This book will be of interest to construction researchers, practitioners, professional bodies, housing policy makers and government institutions as well as training and funding providers in these areas.

Building Smart, Resilient and Sustainable Infrastructure in Developing Countries IGI Global

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.

Maritime Technology and Engineering III Springer

This book inclusively and systematically presents the fundamental methods, models and techniques of practical application of grey data analysis, bringing together the authors' many years of theoretical exploration, real-life application, and teaching. It also reflects the majority of recent theoretical and applied advances in the theory achieved by scholars from across the world, providing readers a vivid overall picture of this new theory and its pioneering research activities. The book includes 12 chapters, covering the introduction to grey

systems, a novel framework of grey system theory, grey numbers and their operations, sequence operators and grey data mining, grey incidence analysis models, grey clustering evaluation models, series of GM models, combined grey models, techniques for grey systems forecasting, grey models for decision-making, techniques for grey control, etc. It also includes a software package that allows practitioners to conveniently and practically employ the theory and methods presented in this book. All methods and models presented here were chosen for their practical applicability and have been widely employed in various research works. I still remember 1983, when I first participated in a course on Grey System Theory. The mimeographed

teaching materials had a blue cover and were presented as a book. It was like finding a treasure: This fascinating book really inspired me as a young intellectual going through a period of confusion and lack of academic direction. It shone with pearls of wisdom and offered a beacon in the mist for a man trying to find his way in academic research. This book became the guiding light in my life journey, inspiring me to forge an indissoluble bond with Grey System Theory. —Sifeng Liu

Correct Software in Web Applications and Web Services CRC Press

These are the proceedings of the 2nd International Conference on Engineering Sciences and Technologies (ESaT 2016), held from 29th of June until the 1st of July 2016 in

the scenic High Tatras Mountains, Tatranské Matliare, Slovak Republic. After the successful implementation and excellent feedback of the first international conference ESaT 2015, ESaT 2016 was organized under the auspices of the Faculty of Civil Engineering, Technical University of Košice, Slovak Republic in collaboration with the University of Miskolc, Hungary. The conference focused on a wide spectrum of topics and subject areas in civil engineering sciences. The proceedings bringing new and original advances and trends in various fields of engineering sciences and technologies that accost a wide range of academics, scientists, researchers and professionals from universities and practice. The authors of the articles originate from different countries around the world guaranteeing the importance, topicality, quality and level of presented results.

Spacecraft Dynamics and Control Springer
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.

Communications and Multimedia Security
Alborear (OPC) Pvt. Ltd.

This book mainly focuses on SDG4- Quality Education, and aims to understand the past, present, and future of textile, fashion, apparel, and related study majors of East African countries. Professors and field experts in textile engineering of selected countries describe the potential and prospects of textile education and how it can lead to internationalization in the various chapters. It also discusses the textile university alliance and the potential for international education related to textiles in the developing region. With updated illustrations, images, data, graphs and tables, this book serves as a reference book for universities with textile engineering major in countries throughout the world.

Adoption and Use of Technology Tools and

Services by Economically Disadvantaged Communities: Implications for Growth and Sustainability BoD – Books on Demand

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 article 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 Research on Big Data and the

IoT Springer Nature

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. Alternative Water Supply Systems IWA Publishing

This book is a collection of papers presented at the International Conference on Renewable Power (ICRP 2020), held during 13 – 14 July

2020 in Rajouri, Jammu, India. The book covers different topics of renewable energy sources in modern power systems. The book focusses on smart grid technologies and applications, renewable power systems including solar PV, solar thermal, wind, power generation, transmission and distribution, transportation electrification and automotive technologies, power electronics and applications in renewable power system, energy management and control system, energy storage in modern power system, active distribution network, artificial intelligence in renewable power systems, and cyber-physical systems and Internet of things in smart grid and renewable power.

Applications of Computing, Automation and Wireless Systems in Electrical Engineering Springer Nature

The commodification of science—often

identified with commercialization, or the selling of expertise and research results and the “capitalization of knowledge” in academia and beyond—has been investigated as a threat to the autonomy of science and academic culture and criticized for undermining the social responsibility of modern science. In *From Commodification to the Common Good*, Hans Radder revisits the commodification of the sciences from a philosophical perspective to focus instead on a potential alternative, the notion of public-interest science. Scientific knowledge, he argues, constitutes a common good only if it serves those affected by the issues at stake, irrespective of commercial gain. Scrutinizing the theory and practices of scientific and technological patenting, Radder challenges the legitimacy of commercial monopolies and the private appropriation and exploitation of research results. His book invites us to reevaluate established laws and to question doctrines and practices that may impede or even prohibit scientific research and social progress so that we might achieve real and significant transformations in service of the common good.

Beyond the Code Springer

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.