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Alternative Cementitious Materials for Self-Compacting Concrete Butterworth-Heinemann

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.

Comprehensive Water Quality and Purification Springer

Social media platforms are powerful tools that can help organizations to gather user preferences and build profiles of consumers. These sites add value to business activities, including market research, co-creation, new product development, and brand and customer management. Understanding and correctly incorporating these tools into daily business operations is essential for organizational success. *Managing Social Media Practices in the Digital Economy* is an essential reference source that facilitates an understanding of diverse social media tools and platforms and their impact on society, business, and the economy and illustrates how online communities can benefit the domains of marketing, finance, and information technology. Featuring research on topics such as mobile technology, service quality, and consumer engagement, this book is ideally designed for managers, managing directors, executives, marketers, industry professionals, social media analysts, academicians, researchers, and students.

Big Data Systems CRC Press

This book on biomimicry assessment tools studies the concepts of sustainability, sustainable construction practices, and the evaluation categories that constitute a sustainability assessment tool. By exploring and drawing lessons from biomimicry principles, the book provides a nature-inspired assessment tool to aid and guide the sustainable transformation of the built environment. The book encapsulates the attributes of the conceptualised biomimicry assessment tool, which is aimed at helping practitioners, regulatory bodies, and governmental and non-governmental agencies in greening the built environment. Owing to the dire need for country-specific and tailor-made tools that address developing countries' needs, this book serves as a practical reference and theoretical springboard for the development of sustainability assessment tools for the built environment. Furthermore, the book serves as a guide in navigating the path towards achieving the greening agendas of the built environment and other sectors and seeks to align the new biomimicry assessment tool with the UN Sustainable Development Goals (SDGs). It is important reading for academics, professionals and advanced students in the built environment, engineering, and sustainable development.

Proceeding Celebes International Conference on Diversity of Wallacea 's Line (CICDWL 2015)

John Wiley & Sons

If the detrimental impacts of human-induced climate change continue to mount, technologies

for geoengineering our climate – i.e. deliberate modifying of the Earth's climate system at a large scale – are likely to receive ever greater attention from countries and societies worldwide.

Geoengineering technologies could have profound ramifications for our societies, and yet agreeing on an international governance framework in which even serious research into these planetary-altering technologies can take place presents an immense international political challenge. In this important book, a diverse collection of internationally respected scientists, philosophers, legal scholars, policymakers, and civil society representatives examine and reflect upon the global geoengineering debate they have helped shape. Opening with essays examining the historic origins of contemporary geoengineering ideas, the book goes on to explore varying perspectives from across the first decade of this global discourse since 2006. These essays methodically cover: the practical and ethical dilemmas geoengineering poses; the evolving geoengineering research agenda; the challenges geoengineering technologies present to current international legal and political frameworks; and differing perceptions of geoengineering from around the world. The book concludes with a series of forward looking essays, some drawing lessons from precedents for governing other global issues, others proposing how geoengineering technologies might be governed if/as they begin to emerge from the lab into the real world. This book is an indispensable resource for scientists, activists, policymakers, and political figures aiming to engage in the emerging debate about geoengineering our climate.

Organic Pollutants Academic Press

The book is a collection of high-quality peer-reviewed research papers presented in the first International Conference on Signal, Networks, Computing, and Systems (ICSNCS 2016) held at Jawaharlal Nehru University, New Delhi, India during February 25 – 27, 2016. The

book is organized in to two volumes and primarily focuses on theory and applications in the broad areas of communication technology, computer science and information security. The book aims to bring together the latest scientific research works of academic scientists, professors, research scholars and students in the areas of signal, networks, computing and systems detailing the practical challenges encountered and the solutions adopted.

Multiphase Particulate Systems in Turbulent Flows Springer

Prosiding ini memuat sejumlah abstrak dan makalah yang disajikan dalam Celebes International Conference on Diversity of Wallacea ' s Line (CICDWL 2015).

Mengusung tema "Sustainable Management of Geological, Biological, and Cultural Diversities of Wallacea's Line toward A Millennium Era" seminar ini diselenggarakan di Kendari pada 8 – 10 Mei 2015.

Applications of Mathematics in Science and Technology CRC Press

Greywater Reuse examines the features and implications of greywater reuse scientifically, quantitatively, and thoroughly. Based on the authors' extensive studies of treatment facilities in urban and rural environments, development of greywater treatment systems, and research of potential environmental and health risks posed by greywater at differen

Geoengineering our Climate?
Springer Nature

This edited book aims to provide a collection of scientific evidence on gender issues in the construction industry that contributes to discussions on equality, gender

diversity, and inclusion in the built environment; it also provides baseline data for policy design and future research on women in the built environment. Presenting research findings from Africa, India, and Australia, the aims of this book are broad and it begins with an assessment of the gender-based challenges in the construction sector from the perspective of two generations of women. It goes on to discuss the issues affecting the recruitment and career progression of women in construction and also to proffer solutions to the low turnout of women in the construction industry. Further chapters cover issues on the retention and persistence of women in the sector despite the perceived gender-rooted challenges. Research into female leadership in the construction industry is also presented in this book with specific focus on the management of construction sites, quantity surveying practice, and digital leadership. This book ends with a discussion on the impact of gender consideration on the sustainability of construction businesses, accessibility of housing finance, and infrastructure provisions such as markets. The research in this book is key reading for scholars of construction management, gender studies, and DEI and the workplace.

Human-Centric Decision-Making Models for Social Sciences

Woodhead Publishing

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. [Handbook of Advances in Braided Composite Materials](#) Springer

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. *Advances in Computers Springer Multiphase Particulate Systems in Turbulent Flows: Fluid-Liquid and Solid-Liquid Dispersions* provides methods necessary to analyze complex particulate systems and related phenomena including physical, chemical and mathematical description of fundamental processes influencing crystal size and shape, suspension rheology, interfacial area of drops and bubbles in extractors and bubble columns. Examples of mathematical

model formulation for different processes taking place in such systems is shown. Discussing connections between turbulent mixing mechanisms and precipitation, it discusses influence of fine-scale structure of turbulence, including its intermittent character, on breakage of drops, bubbles, cells, plant cell aggregates. An important aspect of the mathematical modeling presented in the book is multi-fractal, taking into account the influence of internal intermittency on different phenomena.

Key Features Provides detailed descriptions of dispersion processes in turbulent flow, interactions between dispersed entities, and continuous phase in a single volume Includes simulation models and validation experiments for liquid-liquid, gas-liquid, and solid-liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity, with exercises and case studies

Techniques for Disaster Risk Management and Mitigation BoD – Books on Demand

The volume delivers a wealth of effective methods to deal with various types of uncertainty inherently existing in human-centric decision problems. It elaborates on comprehensive decision frameworks to handle different decision scenarios, which help use effectively the explicit and tacit knowledge and intuition, model perceptions and preferences in

a more human-oriented style. The book presents original approaches and delivers new results on fundamentals and applications related to human-centered decision making approaches to business, economics and social systems. Individual chapters cover multi-criteria (multiattribute) decision making, decision making with prospect theory, decision making with incomplete probabilistic information, granular models of decision making and decision making realized with the use of non-additive measures. New emerging decision theories being presented as along with a wide spectrum of ongoing research make the book valuable to all interested in the field of advanced decision-making. The volume, self-contained in its nature, offers a systematic exposure to the concepts, design methodologies, and detailed algorithms. A prudent balance between the theoretical studies and applications makes the material suitable for researchers and graduate students in information, computer sciences, psychology, cognitive science, economics, system engineering, operation research and management science, risk management, public and social policy.

Securing Sustainable Futures Through Blue and Green Economies Routledge
This book presents the proceedings of the 2018 International Conference on Security with Intelligent Computing and Big-data Services (SICBS 2018). With the proliferation of security with intelligent computing and big-data services, the issues of information security, big data, intelligent computing, blockchain technology, and network security have attracted a growing number of researchers. Discussing topics in areas including blockchain technology and

applications; multimedia security; information processing; network, cloud and IoT security; cryptography and cryptosystems; as well as learning and intelligent computing and information hiding, the book provides a platform for researchers, engineers, academics and industrial professionals from around the globe to present their work in security-related areas. It not only introduces novel and interesting ideas, but also stimulates discussions and inspires new ideas.

Anthropological Data in the Digital Age

Walter de Gruyter GmbH & Co KG

New digital tools have the potential to accelerate the transformation of economies and societies towards a more inclusive and resilient future. In the case of the European Union, the European Green Deal aims to transform Europe into the first climate neutral continent. It focuses on a variety of areas of interest: climate, energy, environment and oceans, transport, industry, and R&I, among others. On the other hand, the EU Blue Economy Observatory focuses on seas, oceans and coasts, and studies the economic activities linked to them. Research on blue economy and green economy can provide valuable knowledge and insights about how countries and companies can create new business opportunities, jobs and economic growth. *Securing Sustainable Futures Through Blue and Green Economies* discusses innovative approaches and views, exploring simultaneously how blue economy's policies and strategies, green economy's actions and priorities, and digital transformation can successfully pave the road towards more inclusive and digital societies. Additionally, it seeks to foster dialogue and research about national priorities and strategies,

share knowledge about latest research in these fields, and foster scientific collaboration among different stakeholders, including industry, policy, and civil society. Covering topics such as corporate social responsibility, the labor market, and population growth, this book is an excellent resource for researchers, policymakers, industry leaders, scholars, academicians, professionals, and more.

Renewable Power for Sustainable Growth
CRC Press

The Conference dealt with one of the most important problems faced in International development in Pure Mathematics and Applied mathematics development in engineering such as Cryptography, Cyber Security, Network, Operations Research, Heat Equation and so forth. The aim of the conference was to provide a platform for researchers, engineers, academicians, as well as industrial professionals, to present their research results and development activities in Pure and Apply Mathematics, and its applied technology. It provided opportunities for the delegates to exchange new ideas and application experiences, to establish business or research relations and to find global partners for future collaboration.

Reframing Climate Change Taylor & Francis

eResearch presents new challenges in managing data. This book explains to librarians and other information specialists what eResearch is, how it impacts library services and collections, and how to contribute to eResearch activities at their parent institutions. Today's librarians need to be technology-savvy information experts who understand how to manage datasets. *Demystifying eResearch: A Primer for Librarians* prepares librarians for careers that involve eResearch, clearly defining what it is and how it impacts library

services and collections, explaining key terms and concepts, and explaining the importance of the field. You will come to understand exactly how the use of networked computing technologies enhances and supports collaboration and innovative methods particularly in scientific research, learn about eResearch library initiatives and best practices, and recognize the professional development opportunities that eResearch offers. This book takes the broad approach to the complex topic of eResearch and how it pertains to the library community, providing an introduction that will be accessible to readers without a background in electronic research. The author presents a conceptual overview of eResearch with real-world examples of electronic research activities to quickly increase your familiarity with eResearch and awareness of the current state of eResearch librarianship.

Managing Social Media Practices in the Digital Economy 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.

Advances and Trends in Engineering Sciences and Technologies II Springer Nature

In continuation of the earlier book on spectrophotometric methods for iron and copper the present book is the next attempt for covering methods and reagents for single as well as simultaneous

Spectrophotometric determination methods for the two most important industrial and biologically useful metals Ni and Co. The book is an extremely helpful single source handbook for researchers, analytical chemists in industry as well as post graduate students in academic institutions. It covers methods developed during the last 20 years and gives very brief descriptions as a Do-It-Yourself Guide in simple and precise language.

Marine Design XIII Springer Nature
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

to single themes or subfields of computer science

Proceedings of the International Conference on Signal, Networks, Computing, and Systems CRC Press Advances in Computers carries on a tradition of excellence, presenting detailed coverage of innovations in computer hardware, software, theory, design, and applications. The book provides contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles typically allow. The articles included in this book will become standard references, with lasting value in this rapidly expanding field. - Presents detailed coverage of recent innovations in computer hardware, software, theory, design, and applications - Includes in-depth surveys and tutorials on new computer technology pertaining to computing: combinatorial testing, constraint-based testing, and black-box testing - Written by well-known authors and researchers in the field - Includes extensive bibliographies with most chapters - Presents volumes devoted