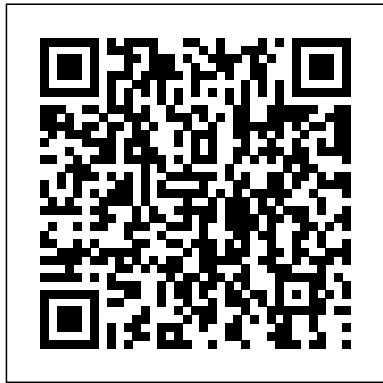

Engineering Science N1 Paper 2014

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CRC Press

This book gathers the proceedings of the fifteenth International Conference on Management Science and Engineering Management (ICMSEM 2021) held on August 1-4, 2021, at the University of Castilla-La Mancha (UCLM), Toledo, Spain. The proceedings contains theoretical and practical research of decision support systems, complex systems, empirical studies, sustainable development, project

management, and operation optimization, showing advanced management concepts and demonstrates substantial interdisciplinary developments in MSEM methods and practical applications. It allows researchers and practitioners in management science and engineering management (MSEM) to share their latest insights and contribution. Meanwhile, it appeals to readers interested in these areas, especially those looking for new ideas and research directions.

Information Science and Electronic Engineering CRC Press

This book constitutes the proceedings of the 7th International Conference on Graph Transformations, ICGT 2014, held in York, UK, in July 2014. The 17 papers and 1 invited paper presented were carefully

reviewed and selected from numerous submissions. The papers are organized in topical sections on verification, meta-modelling and model transformations, rewriting and applications in biology, graph languages and graph transformation, and applications.

Springer

Analysis, assessment, and data management are core competencies for operation research analysts. This volume addresses a number of issues and developed methods for improving those skills. It is an outgrowth of a conference held in April 2013 at the Hellenic Military Academy and brings together a

broad variety of mathematical methods and theories with several applications. It discusses directions and pursuits of scientists that pertain to engineering sciences. It also presents the theoretical background required for algorithms and techniques applied to a large variety of concrete problems. A number of open questions as well as new future areas are also highlighted. This book will appeal to operations research analysts, engineers, community decision makers, academics, the military community, practitioners sharing the current "state-of-the-art," and analysts from coalition partners. Topics covered include Operations Research, Games and Control Theory, Computational Number Theory and Information Security, Scientific Computing and Applications,

Statistical Modeling and Applications, Systems of Monitoring and Spatial Analysis.

Scaled for Success National Academies Press

It is my great pleasure to present the proceedings of the 8th International Conference on Bioinformatics and Biomedical Engineering (ICBBE 2014), held in Suzhou, China, September 20 – 22, 2014. I would like to take this opportunity to express my sincere thanks to all the authors and participants for their support to our conference. The continuous researches on Bioinformatics and Biomedical Engineering are now of critical significance to the sustainable development of science, education, culture and the society. Especially in modern times, it plays an important role in the interdisciplinary field among the life science, mathematical science, computer science and electronic information science. More and more scholars and practitioners, both within China and abroad, are committed themselves to the cause of this area. With the development of society and technology, a great variety of research results are emerging. Here, ICBBE provides a

platform for academic professionals and industry players to exchange the most updated information and achievements in those exciting research areas. On behalf of the organizing committee, I would like to express my gratitude to our sponsors: Wuhan University and Engineering Information Institute. At the same time, we appreciate the contribution from all the paper reviewers and the committee members. It is impossible to organize such a conference without their help. The papers in the proceedings of ICBBE provide details beyond what is possible to be included in an oral presentation and constitute a concise but timely medium for the dissemination of recent research results. I hope that you can find these proceedings interesting, exciting and informative. Thanks again for your support to the ICBBE conference. Prof. Kuo-Chen Chou ICBBE 2014 Committee Chair
Introduction to Methods and Applications Springer
International Conference on Computer Science and Software Engineering (CSSE 2014) DEStech Publications, Inc
13th European Conference, Zurich, Switzerland, September 6-12, 2014, Proceedings, Part II International

Conference on Computer Science and Software Engineering (CSSE 2014) Emerging from the confluence of Greco-Roman mythology and regional folklore, the mermaid has been an enduring motif in Western culture since the medieval period. It has also been disseminated more widely, initially through Western trade and colonisation and, more recently, through the increasing globalisation of media products and outlets. Scaled for Success offers the first detailed overview of the mermaids dispersal outside Europe. Complementing previous studies of the interrelationship between the mermaid and Mami Wata spirit in West Africa, this volume addresses the mermaids presence in a range of Middle Eastern, Asian, Australian, Latin American and North American contexts. Individual chapters identify the manner in which the mermaid has been variously syncretised and/or resignified in contexts as diverse as Indian public statuary, Thai cinema and Coney Islands annual Mermaid Parade. Rather than lingering as a relic of a bygone age, the mermaid emerges as

a versatile, dynamic and, above all, polyvalent figure. Her prominence exemplifies the manner in which contemporary media-lore has extended the currency of established folkloric figures in new and often surprising ways. Analysing aspects of religious symbolism, visual art, literature and contemporary popular culture, this copiously illustrated volume profiles an intriguing and highly diverse phenomenon. Philip Hayward is editor of the journal Shima and holds adjunct professor positions at the University of Technology Sydney and at Southern Cross University. His previous volume, Making a Splash: Mermaids (and Mermen) in 20th and 21st Century Audiovisual Media, was published by John Libbey Publishing/Indiana University Press in 2017. Making Value for America Springer A side-effect of numerous anthropogenic activities involves unfavourable changes in the natural environment. The acquisition of natural resources, especially fossil fuels, solid waste and wastewater production, as well as emission of gases and particulate matter from industrial plants and means of

transport contribute to disturbances in the natural cycles of elements between different parts of the environment. Local changes lead to global effects, changing the composition of atmosphere, its capacity for absorbing the infrared radiation and temperature, which has further repercussions in the form of weather anomalies, melting glaciers, flooding, migration or extinction of species, social problems, etc. These global changes can be mitigated by local remedial actions, simultaneously taken all over the world, including Poland. Only the joint efforts of communities from different countries can be successful in preserving the world as we know it for the future generations. Realisation of this task requires the cooperation of experts across many fields of science, environmental engineering being one of most relevant. It comprises the engineering actions taken to preserve the balance of the natural environment or restore it if degradation has occurred. This monograph presents several key issues related to the actions aimed at mitigating the negative impact on the environment connected with the acquisition and transport of energy, management of municipal and industrial wastes, as well as the impact of the industry on the aquatic and soil

environment. This book is dedicated to academics, engineers, and students involved in environmental engineering, who are following the advances in the research on environmental aspects of energy production and waste management.

Sports Engineering and Computer Science Elsevier

In the past 20 years protein engineering has been used for the production of proteins mostly for biological applications. The incorporation of artificial amino acids and chemical handles into proteins had made possible the design and production of protein-based materials like hybrid inorganic-organic materials, smart/ responsive materials, monodisperse polymers, and nanoscale assemblies. In the current topic, we cover current uses and envision future applications of materials generated using protein engineering and biosynthesis techniques. I would like to acknowledge the U.S. Office of Naval Research for financial support and Dr. Cherise Bernard for her contributions during the early stages of the Research Topic.

Proceedings of the International Conference, I3SET 2016 Springer Science & Business

Materials, Third Edition, is the essential

materials engineering text and resource for students developing skills and understanding of materials properties and selection for engineering applications. This new edition retains its design-led focus and strong emphasis on visual communication while expanding its inclusion of the underlying science of materials to fully meet the needs of instructors teaching an introductory course in materials. A design-led approach motivates and engages students in the study of materials science and engineering through real-life case studies and illustrative applications. Highly visual full color graphics facilitate understanding of materials concepts and properties. For instructors, a solutions manual, lecture slides, online image bank, and materials selection charts for use in class handouts or lecture presentations are available at <http://textbooks.elsevier.com>. The number of worked examples has been increased by 50% while the number of standard end-of-chapter exercises in the text has been doubled. Coverage of materials and the environment has been updated with a new section on Sustainability and Sustainable Technology. The text meets the curriculum needs of a wide variety of courses in the materials and design field, including introduction to materials science

and engineering, engineering materials, materials selection and processing, and materials in design. Design-led approach motivates and engages students in the study of materials science and engineering through real-life case studies and illustrative applications Highly visual full color graphics facilitate understanding of materials concepts and properties Chapters on materials selection and design are integrated with chapters on materials fundamentals, enabling students to see how specific fundamentals can be important to the design process For instructors, a solutions manual, lecture slides, online image bank and materials selection charts for use in class handouts or lecture presentations are available at <http://textbooks.elsevier.com> Links with the Cambridge Engineering Selector (CES EduPack), the powerful materials selection software. See www.grantadesign.com for information
NEW TO THIS EDITION: Text and figures have been revised and updated throughout The number of worked examples has been increased by 50% The number of standard end-of-chapter exercises in the text has been doubled Coverage of materials and the environment has been updated with a new section on Sustainability and Sustainable Technology

Current Developments in
Biotechnology and Bioengineering

National Academies Press

The book is a collection of peer-reviewed scientific papers submitted by active researchers in the International Conference on Industry Interactive Innovation in Science, Engineering and Technology (I3SET 2016). The conference is a collective initiative of all departments and disciplines of JIS College of Engineering (an autonomous institution), Kalyani, West Bengal, India. The primary objective of the conference is to strengthen interdisciplinary research and encourage innovation in a demand-driven way as desired by the industry for escalating technology for mankind. A galaxy of academicians, professionals, scientists, industry people and researchers from different parts of the country and abroad shared and contributed their knowledge. The major areas of I3SET 2016 include nonconventional energy and

advanced power systems; nanotechnology and applications; pattern recognition and machine intelligence; digital signal and image processing; modern instrumentation, control, robotics and automation; civil engineering and structural design; real-time and embedded systems, communication and devices; advanced optimization techniques; biotechnology, biomedical instrumentation and bioinformatics; and outcome based education.

Springer

Information Science and Electronic Engineering is a collection of contributions drawn from the International Conference of Electronic Engineering and Information Science (ICEEIS 2016) held January 4-5, 2016 in Harbin, China. The papers in this proceedings volume cover various topics, including: - Electronic Engineering - Information Science and Information Technologies - Computational Mathematics and

Data Mining - Image Processing and Computer Vision - Communication and Signal Processing - Control and Automation of Mechatronics - Methods, Devices and Systems for Measurement and Monitoring - Engineering of Weapon Systems - Mechanical Engineering and Material Science - Technologies of Processing. The content of this proceedings volume will be of interest to professionals and academics in the fields of Electronic Engineering, Computer Science and Mechanical Engineering.

Proceedings of the International Conference of Electronic Engineering and Information Science 2015 (ICEEIS 2015), January 17-18, 2015, Harbin, China Springer Nature

Have you ever wondered what it is like to work on a nuclear power plant? Robert Dutch worked in the UK's nuclear industry for many years as a scientist and then as a tutor at a nuclear training center. He also holds degrees in theology. Drawing upon his qualifications and experience Robert addresses the controversial issue of nuclear power from a Christian perspective. In contrast to a

negative nuclear narrative often portrayed, he presents a positive nuclear narrative alongside other ways of generating electricity. Be prepared to be challenged to think seriously about nuclear's merits in providing clean, low-carbon electricity.

ECIE 2015 CRC Press

This book constitutes the thoroughly refereed post-workshop proceedings of the 25th International Workshop on Combinatorial Algorithms, IWOCA 2014, held in Duluth, MN, USA, in October 2014. The 32 revised full papers presented were carefully reviewed and selected from a total of 69 submissions. The papers focus on topics such as Algorithms and Data Structures, Combinatorial Enumeration, Combinatorial Optimization, Complexity Theory (Structural and Computational), Computational Biology, Databases (Security, Compression and Information Retrieval), Decompositions and Combinatorial Designs, Discrete and Computational Geometry, as well as

Graph Drawing and Graph Theory. IWOCA is a yearly forum for researchers in designing algorithms field to advance creativeness of intersection between mathematics and computer science. This is the first time this conference is being held in U.S.

Probability with Applications in Engineering, Science, and Technology

DEStech Publications, Inc

This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. The textbook contains enough material for a year-long course, though many instructors will use it for a single term (one semester or one quarter). As such, three course syllabi with expanded course outlines are now available for download on the book's

page on the Springer website. A one-term course would cover material in the core chapters (1-4), supplemented by selections from one or more of the remaining chapters on statistical inference (Ch. 5), Markov chains (Ch. 6), stochastic processes (Ch. 7), and signal processing (Ch. 8—available exclusively online and specifically designed for electrical and computer engineers, making the book suitable for a one-term class on random signals and noise). For a year-long course, core chapters (1-4) are accessible to those who have taken a year of univariate differential and integral calculus; matrix algebra, multivariate calculus, and engineering mathematics are needed for the latter, more advanced chapters. At the heart of the textbook's pedagogy are 1,100 applied exercises, ranging from straightforward to reasonably challenging, roughly 700 exercises in the first four "core" chapters alone—a self-contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand – in R and MATLAB, including code so that students can create simulations. New to this edition • Updated and re-worked Recommended Coverage for instructors, detailing which courses should use the textbook and how

to utilize different sections for various objectives and time constraints • Extended and revised instructions and solutions to problem sets • Overhaul of Section 7.7 on continuous-time Markov chains • Supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students Electronics and Electrical Engineering Springer

Eyewitnesses play an important role in criminal cases when they can identify culprits. Estimates suggest that tens of thousands of eyewitnesses make identifications in criminal investigations each year. Research on factors that affect the accuracy of eyewitness identification procedures has given us an increasingly clear picture of how identifications are made, and more importantly, an improved understanding of the principled limits on vision and memory that can lead to failure of identification. Factors such as viewing conditions, duress, elevated emotions, and biases influence the visual perception experience. Perceptual experiences are stored by a system of memory that is highly malleable and continuously evolving, neither retaining nor divulging content in an informational vacuum. As such, the fidelity of our memories to actual events may be compromised by many factors at all stages of processing,

from encoding to storage and retrieval. Unknown to the individual, memories are forgotten, reconstructed, updated, and distorted. Complicating the process further, policies governing law enforcement procedures for conducting and recording identifications are not standard, and policies and practices to address the issue of misidentification vary widely. These limitations can produce mistaken identifications with significant consequences. What can we do to make certain that eyewitness identification convicts the guilty and exonerates the innocent? Identifying the Culprit makes the case that better data collection and research on eyewitness identification, new law enforcement training protocols, standardized procedures for administering line-ups, and improvements in the handling of eyewitness identification in court can increase the chances that accurate identifications are made. This report explains the science that has emerged during the past 30 years on eyewitness identifications and identifies best practices in eyewitness procedures for the law enforcement community and in the presentation of eyewitness evidence in the courtroom. In order to continue the advancement of eyewitness identification research, the report recommends a focused research agenda. Identifying the

Culprit will be an essential resource to assist the law enforcement and legal communities as they seek to understand the value and the limitations of eyewitness identification and make improvements to procedures.

Assessing Eyewitness Identification EWG-DSS

CSSE2014 proceeding tends to collect the most up-to-date, comprehensive, and worldwide state-of-art knowledge on Computer Science and Software Engineering. All the accepted papers have been submitted to strict peer-review by 2 – 4 expert referees, and selected based on originality, significance and clarity for the purpose of the conference. The conference program is extremely rich, profound and featuring high-impact presentations of selected papers and additional late-breaking contributions. We sincerely hope that the conference would not only show the participants a broad overview of the latest research results on related fields, but also provide them with a significant platform for academic connection and exchange. The Technical Program Committee members have been working very hard to meet the deadline of review. The final conference program consists of 126 papers divided into 4 sessions.

Advances in Optical Science and Engineering Springer
Two large international conferences on Advances in Engineering Sciences were held in Hong Kong, March 13-15, 2013, under the International MultiConference of Engineers and Computer Scientists (IMECS 2013), and in London, U.K., 3-5 July, 2013, under the World Congress on Engineering 2013 (WCE 2013) respectively. IMECS 2013 and WCE 2013 were organized by Graph Transformation Frontiers Media SA

The background of this research is related to innovative lightweight construction methods for short-term applications realized with highly recyclable materials produced from renewable resources. Specifically, the possibility of using selected paper-based products for design purposes is examined. The main topic discussed regards the state of the art and future potential of joining

techniques for assemblies and structures designed with paper-based products. In this context, the preference on paper-tubes for a variety of designs is examined closely. A collection of case studies for selected joining techniques supported with digital tools, fabrication of prototypes and targeted structural experiments demonstrates possibilities and considerations. This book presents the research process and aims to inspire architects, designers and engineers who are eager to discuss on material innovation and the steps that need to be taken to examine the feasibility of such ideas.

DEStech Publications, Inc
The two-volume set LNCS 9242 + 9243 constitutes the proceedings of the 5th International Conference on Intelligence Science and Big Data Engineering, IScIDE 2015, held in Suzhou, China, in June 2015. The total of 126 papers presented in the proceedings was carefully reviewed and selected from 416 submissions.

They deal with big data, neural networks, image processing, computer vision, pattern recognition and graphics, object detection, dimensionality reduction and manifold learning, unsupervised learning and clustering, anomaly detection, semi-supervised learning. Reproducibility and Replicability in Science Wipf and Stock Publishers
The objective of the 2014 International Conference on Computer, Network Security and Communication Engineering (CNSCE2014) is to provide a platform for all researchers in the field of Computer, Network Security and Communication Engineering to share the most advanced knowledge from both academic and industrial world, to communicate with each other about their experience and most up-to-date research achievements, and to discuss issues and future prospects in these fields. As an international conference mixed with academia and industry, CNSCE2014 provides attendees not only the free exchange of ideas and challenges faced by these two key stakeholders and encourage future collaboration between members of these groups but also a good opportunity to make friends with scholars

around the word. As the first session of the international conference on CNSCE, it covers topics related to Computer, Network Security and Communication Engineering. CNSCE2014 has attracted many scholars, researchers and practitioners in these fields from various countries. They take this chance to get together, sharing their latest research achievements with each other. It has also achieved great success by its unique characteristics and strong academic atmosphere as well as its authority.