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# Engineering Science N1 Paper 2014

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Integration Challenges for Analytics, Business Intelligence, and Data Mining Routledge  
The 2014 Asia-Pacific Electronics and Electrical Engineering Conference (EEEC 2014) was held on December 27-28,

2014 in Shanghai, China. EEEEC has provided a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Electroni

[Yearbook of International Organizations 2013-2014](#)

Academic Conferences and publishing limited

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,

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semi-supervised learning.  
Sports Engineering and  
Computer Science  
International Conference on  
Computer Science and  
Software Engineering (CSSE  
2014)

This book constitutes the  
refereed proceedings of the  
11th Latin American  
Symposium on Theoretical  
Informatics, LATIN 2014,  
held in Montevideo,  
Uruguay, in March/April  
2014. The 65 papers presented  
together with 5 abstracts were  
carefully reviewed and  
selected from 192

submissions. The papers  
address a variety of topics in  
theoretical computer science  
with a certain focus on  
complexity, computational  
geometry, graph drawing,  
automata, computability,  
algorithms on graphs,  
algorithms, random structures,  
complexity on graphs, analytic  
combinatorics, analytic and  
enumerative combinatorics,  
approximation algorithms,  
analysis of algorithms,  
computational algebra,  
applications to bioinformatics,  
budget problems and  
algorithms and data structures.

Reproducibility and  
Replicability in Science  
Springer Science & Business  
Engineering dynamics and  
vibrations has become an  
essential topic for ensuring  
structural integrity and  
operational functionality in  
different engineering areas.  
However, practical problems  
regarding dynamics and  
vibrations are in many cases  
handled without success  
despite large expenditures.  
This book covers a wide range  
of topics from the basics to  
advances in dynamics and  
vibrations; from relevant  
engineering challenges to the

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solutions; from engineering failures due to inappropriate accounting of dynamics to mitigation measures and utilization of dynamics. It lays emphasis on engineering applications utilizing state-of-the-art information.

Probability with Applications in Engineering, Science, and Technology Brill Academic Pub

This book provides guidelines for practicing design science in the fields of information systems and software

engineering research. A design process usually iterates over two activities: first designing an artifact that improves something for stakeholders and subsequently empirically investigating the performance of that artifact in its context. This “validation in context” is a key feature of the book - since an artifact is designed for a context, it should also be validated in this context. The book is divided into five parts. Part I discusses the

fundamental nature of design science and its artifacts, as well as related design research questions and goals. Part II deals with the design cycle, i.e. the creation, design and validation of artifacts based on requirements and stakeholder goals. To elaborate this further, Part III presents the role of conceptual frameworks and theories in design science. Part IV continues with the empirical cycle to investigate artifacts in context, and presents the

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different elements of research problem analysis, research setup and data analysis. Finally, Part V deals with the practical application of the empirical cycle by presenting in detail various research methods, including observational case studies, case-based and sample-based experiments and technical action research. These main sections are complemented by two generic checklists, one for the design cycle and one

for the empirical cycle. The book is written for students as well as academic and industrial researchers in software engineering or information systems. It provides guidelines on how to effectively structure research goals, how to analyze research problems concerning design goals and knowledge questions, how to validate artifact designs and how to empirically investigate artifacts in context – and finally how to present the results of

the the design cycle as a whole.

11th Latin American Symposium, Montevideo, Uruguay, March 31 -- April 4, 2014. Proceedings  
Indiana University Press  
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

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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

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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.

*Uncertainty in Engineering*  
National Academies Press  
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

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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.

*Assessing Eyewitness Identification* Springer  
“Neutrosophic Sets and

Systems” has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc. Proceedings of the 4th International Conference on Decision Support System Technology – ICDSST 2018 & PROMETHEE DAYS 2018 Springer  
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



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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.

[Design Science Methodology for Information Systems and](#)

[Software Engineering](#)  
Springer Nature  
International Conference on Computer Science and Software Engineering (CSSE 2014)DEStech Publications, Inc  
[Proceedings of the First International Conference, IEM OPTRONIX 2014](#)  
CRC Press  
Two large international conferences on Advances in Engineering Sciences were held in Hong Kong, March 13-15, 2013, under the International MultiConference of

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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 organize

*8th International Conference on Bioinformatics and Biomedical Engineering (iCBBE)* CRC Press

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.

Combinatorial Algorithms IGI Global

The Proceedings of First International Conference on Opto-Electronics and Applied Optics 2014, IEM OPTRONIX 2014 presents the research contributions presented in the conference by researchers from both India and abroad. Contributions from established scientists as well as students are included. The book is organized to enable easy

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access to various topics of interest. The first part includes the Keynote addresses by Phillip Russell, Max Planck Institute of the Light Sciences, Erlangen, Germany and Lorenzo Pavesi, University of Trento, Italy. The second part focuses on the Plenary Talks given by eminent scientists, namely, Azizur Rahman, City University London, London; Bishnu Pal, President, The Optical Society of India; Kamakhya Ghatak, National Institute of Technology, Agartala; Kehar Singh, Former Professor, India Institute of Technology Delhi; Mourad Zghal, SUPCOM, University of Carthage, Tunisia; Partha Roy

Chaudhuri, IIT Kharagpur; S K. Bhadra, CSIR-Central Glass and Ceramic Research Institute, Kolkata; Sanjib Chatterjee, Raja Ramanna Centre for Advanced Technology, Indore; Takeo Sasaki, Tokyo University, Japan; Lakshminarayan Hazra, Emeritus Professor, University of Calcutta, Kolkata; Shyam Akashe, ITM University, Gwalior and Vasudevan Lakshminarayanan, University of Waterloo, Canada. The subsequent parts focus on topic-wise contributory papers in Application of Solar Energy; Diffraction Tomography; E.M. Radiation Theory and Antenna; Fibre Optics and Devices;

Photonics for Space Applications; Micro-Electronics and VLSI; Nano-Photonics, Bio-Photonics and Bio-Medical Optics; Non-linear Phenomena and Chaos; Optical and Digital Data and Image Processing; Optical Communications and Networks; Optical Design; Opto-Electronic Devices; Opto-Electronic Materials and Quantum Optics and Information Processing. *Industry Interactive Innovations in Science, Engineering and Technology Frontiers Media SA* Volume 1 (A and B) of the Yearbook of International

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Organizations covers international organizations throughout the world, comprising their aims, activities and events

Proceedings of the 2014 Asia-Pacific Electronics and Electrical Engineering Conference (EEEEC 2014), December 27-28, 2014, Shanghai, China Springer Nature

As technology continues to advance, it is critical for businesses to implement systems that can support the transformation of data into information that is

crucial for the success of the company. Without the integration of data (both structured and unstructured) mining in business intelligence systems, invaluable knowledge is lost. However, there are currently many different models and approaches that must be explored to determine the best method of integration. Integration Challenges for Analytics, Business Intelligence, and Data Mining is a relevant academic book that

provides empirical research findings on increasing the understanding of using data mining in the context of business intelligence and analytics systems. Covering topics that include big data, artificial intelligence, and decision making, this book is an ideal reference source for professionals working in the areas of data mining, business intelligence, and analytics; data scientists; IT specialists; managers; researchers;

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academicians;  
practitioners; and graduate  
students.

**Bioprocesses,  
Bioreactors and Controls**  
Springer

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,

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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  
*The Internationalisation of the Mermaid* Springer  
One of the pathways by which the scientific community confirms the validity of a new scientific discovery is by repeating the research that produced it. When a scientific effort fails to independently confirm the computations or results of a previous study, some fear that it may be a symptom of a lack of rigor in science, while others argue that such an observed inconsistency can be an important precursor to new

discovery. Concerns about reproducibility and replicability have been expressed in both scientific and popular media. As these concerns came to light, Congress requested that the National Academies of Sciences, Engineering, and Medicine conduct a study to assess the extent of issues related to reproducibility and replicability and to offer recommendations for improving rigor and transparency in scientific research. Reproducibility and Replicability in Science defines reproducibility and replicability and examines the factors that may lead to non-reproducibility and non-replicability in

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research. Unlike the typical expectation of reproducibility between two computations, expectations about replicability are more nuanced, and in some cases a lack of replicability can aid the process of scientific discovery. This report provides recommendations to researchers, academic institutions, journals, and funders on steps they can take to improve reproducibility and replicability in science.

*Engineering Dynamics and Vibrations* Springer

ICNC-FSKD is a premier international forum for scientists and researchers to present the state of the art of

data mining and intelligent methods inspired from nature, particularly biological, linguistic, and physical systems, with applications to computers, circuits, systems, control, communications, and more. This is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging problems.

*Volume 1* DEStech

Publications, Inc

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),

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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.

Scaled for Success

DEStech Publications, Inc  
The International  
Conference of Electronic  
Engineering and Information  
Science 2015 (ICEEIS  
2015) was held on January  
17-18, 2015, Harbin, China.  
This proceedings volume  
assembles papers from  
various researchers,  
engineers and educators  
engaged in the fields of  
electronic engineering and  
information science. The  
papers in this proceedings