N1 Engineering Science March 2013 Memo

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Computing and Combinatorics IGI Global
With exponentially increasing amounts of data accumulating in real-time, there is no reason why one should not turn data into a competitive advantage. While machine learning, driven by advancements in artificial intelligence, has made great strides, it has not been able to surpass a number of challenges that still prevail in the way of better success. Such limitations as the lack of better methods, deeper understanding of problems, and advanced tools are hindering progress. Challenges and Applications of Data Analytics in Social Perspectives provides innovative insights into the prevailing challenges in data analytics and its application on social media and focuses on various machine learning and deep learning techniques in improving practice and research. The content within this publication examines topics that include collaborative filtering, data visualization, and edge computing. It provides research ideal for data scientists, data analysts, IT specialists, website designers, e-commerce professionals, government officials, software engineers, social media analysts, industry professionals, academicians, researchers, and students.

Informatics in Schools: Focus on Learning Programming Policy Press
This book has an important role in advancing non-classical materials on the macro and nanoscale. The book provides original, theoretical, and important experimental results. Some research uses non-routine methodologies often unfamiliar to some readers. Furthermore, papers on novel applications of more familiar experimental techniques and analyses o

Automata, Languages, and Programming MIT Press
The recording and analysis of electrical brain activity associated with eye movements has a history of several decades. While the early attempts were primarily focused on uncovering the brain mechanisms of eye movements, more recent approaches use eye movements as markers of the ongoing brain activity to investigate perceptual and cognitive processes. This recent approach of segmenting brain activity based on eye movement behavior has several important advantages. First, the eye movement system is closely related to cognitive functions such as perception, attention and memory. This is not surprising since eye movements provide the easiest and the most accurate way to extract information from our visual environment and the eye movement system largely determines what information is selected for further processing. The eye movement-based segmentation offers a great way to study brain activity in relation to these processes. Second, on the methodological level, eye movements constitute a natural marker to segment the ongoing brain activity. This overcomes the problem of introducing artificial markers such as ones for stimulus presentation or response execution that are typical for a lab-based research. This opens possibilities to study brain activity during self-paced perceptual and cognitive behavior under naturalistic conditions such as free exploration of scenes. Third, by relating eye movement behavior to the ongoing brain activity it is possible to see how perceptual and cognitive processes unfold in time, being able to predict how brain activity eventually leads to behavior. This research topic illustrates advantages of the combined recording and analysis of eye movements and neural signals such as EEG, local field potentials and fMRI for investigation of the brain processes in humans and animals. The contributions include research papers, methodology papers and reviews demonstrating conceptual and methodological achievements in this rapidly developing field.

Advanced Non-Classical Materials with Complex Behavior Springer Science & Business Media
This book examines the very current issue of wood waste treatment to a solid biofuel for energy recovery. The book is dedicated to research in the densification processes of wood waste and its mathematical description for uniaxial densification into compact biofuels – briquettes. This monograph, derived from an experimental research of densification process in laboratory conditions and also in real technologies in practice, provides a thorough understanding of the influencing parameters impact during densification of wood waste into solid biofuel. The book shows the experimental strategy to determine the effects of individual parameters and specifies their impact on the resulting density of the briquettes. The publication also defines the level of importance of the results in terms of optimization of the densification machine ' s pressing chamber. Using a designed mathematical model, which was a result of experimental research and which can serve to predict the density of briquettes for some predefined densification conditions and can aid in the design of densification machines, the author has made this topic accessible beyond his discipline, biofuels producers and the academic community.

Exchanging Terrorism Oxygen for Media Airwaves: The Age of Terroredia Elsevier
This book has an important role in advancing non-classical materials on the macro and nanoscale. The book provides original, theoretical, and important experimental results. Some research uses non-routine methodologies often unfamiliar to some readers. Furthermore, papers on novel applications of more familiar experimental techniques and analyses of composite problems are included. This book brings together research contributions from eminent experts on subjects that have gained prominence in material and chemical engineering and science. It presents the last developments along with case studies, explanatory notes, and schematics for clarity and enhanced understanding. The book includes new research and studies, including: • New research on the efficiency of gas purification • The transport properties of films of chitosan-amikacin • Operating conditions of clearing of gas in a rotoklon • Properties and characteristics of varies materials and compounds Professors and instructors and postgraduate students focusing on adhesive interaction improvement will find the book valuable, as will industry professionals.

Emerging Research in Electronics, Computer Science and Technology Academic Press
This two-volume set of LNCS 7965 and LNCS 7966 constitutes the refereed proceedings of the 40th International Colloquium on Automata, Languages and Programming, ICALP 2013, held in Riga, Latvia, in July 2013. The total of 124 revised full papers presented were carefully

reviewed and selected from 422 submissions. They are organized in three tracks focussing on algorithms, complexity and games; logic, semantics, automata and theory of programming; and foundations of networked computation.

Computer Engineering and Networking CRC Press

Bulletin of Electrical Engineering and Informatics (Buletin Teknik Elektro dan Informatika) ISSN: 2089-3191, e-ISSN: 2302-9285 is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, telecommunication and computer engineering from the global world. The journal publishes original papers in the field of electrical, electronics, instrumentation & control, telecommunication, computer and informatics engineering. Vol 2, No 3 September 2013 Table of Contents Relevant Words Extraction Method for Recommendation System PDF Naw Naw, Ei Ei Hlaing 169-176 Relevant Words Extraction Method in Text Mining PDF Naw Naw 177-181 Semantic Constraints Satisfaction Based Improved Quality of Ontology Alignment PDF Fatemeh Fakhar 182-189 Off-Grid Energy Technologies used in Rural Areas of India PDF Krishan Arora, Amardeep Singh Virdi 190-193 Robust Coordinated Designing of PSS and UPFC Damping Controller PDF Amin Safari 194-203 Design and Development of an Automated Multi Axis Solar Tracker Using PLC PDF Santhosh Krishna Venkata, J S Rajshekar 204-211 On the Investigation of a Novel Dual-Control-Gate Floating Gate Transistor for VCO Applications PDF Abderrezak Marzaki, V. Bidal, R. Laffont, W. Rahajandraibe, J-M. Portal, E. Bergeret, R. Bouchakour 212-217 Neural Network Model of Estimation of Body Mass Index Based on Indirect Input Factors PDF Seyed Hosein Hoseini, Meisam Pourahmadi-Nakhli, Ali Soltani 218-224 NaÃ¯ve Bayes Decision Tree Hybrid Approach for Intrusion Detection System PDF Bekti Maryuni Susanto 225-232

Information Fusion of Con?icting Input Data World Scientific

These proceedings represent the work of contributors to the 10th European Conference on Innovation and Entrepreneurship (ECIE 2015), hosted this year by The University of Genoa, Italy on the 17-18 September 2015. The Conference Chair is Prof Luca Beltrametti and the Programme Co-chairs are Prof Renata Paola Dameri, Prof. Roberto Garelli and Prof. Marina Resta, all from the University of Genoa. ECIE continues to develop and evolve. Now in its 10th year the key aim remains the opportunity for participants to share ideas and meet the people who hold them. The scope of papers will ensure an interesting two days. The subjects covered illustrate the wide range of topics that fall into this important and growing area of research. The opening keynote presentation is given by Marco Doria – Mayor of Genoa on the topic of Innovation and entrepreneurship in Genoa: past, present and future. A second keynote will be given by Flavia Marzano from the National board for innovation and Italian digital agenda on the topic of Innovation: New visions not just new technologies. The second day Keynote will be given by Roberto Santoro, President of the European Society of Concurrent Engineering Network (ESoCE Net) on the topic of People Olympics for healthy and active living: A people driven social innovation platform. In addition to the main themes of the conference there are a number of specialist mini tracks on topics including Innovation and strategy, Entrepreneurship education in action, The theory and practice of collaboration in entrepreneurship and Challenges for entrepreneurship and innovation n the 21st Century. With an initial submission of 275 abstracts, after the double blind, peer review process there are 88 Academic research papers, 6 PhD research papers, 1 Masters Research paper, 4 work-in-progress papers and 1 Non-academic paper published in these Conference Proceedings. These papers represent research from Australia, Brazil, Bulgaria, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Egypt, Finland, , France, Germany, Ghana, Greece, Hungary, India, Iran, Ireland, Israel, Italy, Japan, Kazakhstan, , Kuwait, Lithuania, Malaysia, Mexico, Netherlands, New Zealand, Nigeria, Norway, Poland, Portugal, Romania, Romania, Russia, Russian Federation, Saudi Arabia, South Africa, Spain, Sweden, Thailand, Thailand, UK and USA

A Primer for Financial Engineering Institute of Advanced Engineering and Science

Covering key topics in the field such as technological innovation, human-centered sustainable engineering and manufacturing, and manufacture at a global scale in a virtual world, this book addresses both advanced techniques and industrial applications of key research in interactive design and manufacturing. Featuring the full papers presented at the 2014 Joint Conference on Mechanical Design Engineering and Advanced Manufacturing, which took place in June 2014 in Toulouse, France, it presents recent research and industrial success stories related to implementing interactive design and manufacturing solutions.

Let There Be Light! Springer

XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013Springer Science & Business Media

Chinese Naval Shipbuilding IGI Global

The micro- and nano-modification of infrastructure materials and the associated multi-scale characterization and simulation has the potential to open up whole new uses and classes of materials, with wide-ranging implications for society. The use of multi-scale characterization and simulation brings the ability to target changes at the very small scale that predictably effect the bulk behavior of the material and thus allowing for the optimization of material behavior and performance. The International RILEM Symposium on Multi-Scale Modeling and Characterization of Infrastructure Materials (Stockholm, June 10-12, 2013) brought together key researchers from around the world to present their findings and ongoing research in this field in a focused environment with extended discussion times. From asphalt to concrete, from chemistry to mechanics, from nano- to macro-scale: the collection of topics covered by the Symposium represents the width and depth of the currently ongoing efforts of developing more sustainable infrastructure materials. Researchers, practitioners, undergraduates and graduate students engaged in infrastructure materials or multi-scale characterization and modeling efforts can use this book as a comprehensive reference, to learn about the currently ongoing research efforts in this field or as an inspiration for new research ideas to enhance the long-term performance of infrastructure materials from a fundamental perspective. The Symposium was held under the auspices of the RILEM Technical Committee on Nanotechnology-Based Bituminous Materials 231-NBM and the Transport Research Board (TRB) Technical Committee on Characteristics of Asphalt Materials AFK20.

Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures Infinite Study

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.

Science and Design of Problem Solving Systems Springer Science & Business Media

Held every four years, the International Congress on Fracture is the premier international forum for the exchange of ideas between scientists and engineers involved in producing and using materials resistant to fracture and fatigue. This major six-volume work which forms the proceedings of the Seventh International Congress on Fracture therefore provides the most comprehensive account available of the current status of research into fracture and fatigue, and the application of this knowledge to the design, fabrication and

operation of materials and structures. As such, it will be an essential reference for materials scientists and mechanical, structural, aeronautical and design engineers with an interest in fracture and its prevention.

ECIE2015-10th European Conference on Innovation and Entrepreneurship Frontiers E-books

While everyone is talking about "big data," the truth is that understanding the "little data"--the stats that underlie newspaper headlines, stock reports, weather forecasts, and so on--is what helps you make smarter decisions at work, at home, and in every aspect of your life. The average person consumes approximately 30 gigabytes of data every single day, but has no idea how to interpret it correctly. EVERYDATA explains, through the eyes of an expert economist and statistician, how to decipher the small bytes of data we consume in a day. EVERYDATA is filled with countless examples of people misconstruing data--with results that range from merely frustrating to catastrophic: The space shuttle Challenger exploded in part because the engineers were reviewing a limited sample set. Millions of women avoid caffeine during pregnancy because they interpret correlation as causation. Attorneys faced a $1 billion jury verdict because of outlier data. Each chapter highlights one commonly misunderstood data concept, using both realworld and hypothetical examples from a wide range of topics, including business, politics, advertising, law, engineering, retail, parenting, and more. You'll find the answer to the question--"Now what?"--along with concrete ways you can use this information to immediately start making smarter decisions, today and every day.

The Purpose of Change is Problem Solving Infinite Study

This book constitutes the refereed proceedings of the 10th International Conference on Informatics in Schools: Situation, Evolution, and Perspectives, ISSEP 2017, held in Helsinki, Finland, in November 2017. The 18 full papers presented together with 1 invited talk were carefully reviewed and selected from 41 submissions. ISSEP presents this year a broad range of themes ranging from making informatics accessible to visually impaired students and computational thinking to context- and country specific challenges as well as teacher development and training.

Proceedings of the 2nd International Colloquium of Art and Design Education Research (i-CADER 2015) Routledge

This book constitutes the refereed proceedings of the 19th International Conference on Computing and Combinatorics, COCOON 2013, held in Hangzhou, China, in June 2013. The 56 revised full papers presented were carefully reviewed and selected from 120 submissions. There was a co-organized workshop on discrete algorithms of which 8 short papers were accepted and a workshop on computational social networks where 12 papers out of 25 submissions were accepted.

13th International Symposium on Process SystemsEngineering – PSE 2018, July 1-5 2018 Springer

Any part of the world can be viewed and modelled in terms of its chosen qualitative and/or quantitative properties, OR its structure. The former approach has been used by nearly the whole of ‘human intellectual endeavor’, i.e conventional science of physics, the arts etc. Development of the latter or the ‘systemic view’ is the subject matter of the current work. The Purpose of Change is Problem Solving suggests that the ‘structural view’ is empirical, pervasive throughout experience and as such results in a single domain as opposed to conventional science which consists of many domains like mechanics, electricity etc. Thus, a unique approach is required which is based on ‘general principles of systems’ translated into operational form by the symbolism of processed natural language called ‘linguistic modelling of scenarios’ which can carry mathematics and uncertainties. To model scenarios with complex structure, a description or story in natural language is expressed in terms of homogenous language of one – and two – place sentences, the ‘elementary constituents’ of which complex structures can be constructed [like a variety of buildings from bricks]. To correspond to the single domain, based on the logic of causation, a single scheme of ‘Management/producers – Product – User/consumer’ is proposed which is immediately applicable to structuring scenarios and guides their detailed linguistic modelling or design. The approach, subject to debate, can have significant impact on society and education, especially that of engineering which lacks a ‘comprehensive theory of structure’ of problematic scenarios.

Bulletin of Electrical Engineering and Informatics Troubador Publishing Ltd

Terroredia is a newly coined term by the editor, Dr. Mahmoud Eid, to explain the phenomenal, yet under-researched relationship between terrorists and media professionals in which acts of terrorism and media coverage are exchanged, influenced, and fueled by one another. Exchanging Terrorism Oxygen for Media Airwaves: The Age of Terroredia provides a timely and thorough discussion on a wide range of issues surrounding terrorism in relation to both traditional and new media. Comprised of insights and research from leading experts in the fields of terrorism and media studies, this publication presents various topics relating to Terroredia: understanding of terrorism and the role of the media, terrorism manifestations and media representations of terrorism, types of terrorism and media stereotypes of terrorism, terrorism tactics and media strategies, the war on terrorism, the function of terrorism and the employment of the media, new terrorism and new media, contemporary cases of terrorist-media interactions, the rationality behind terrorism and counterterrorism, as well as the responsibility of the media. This publication is of interest to government officials, media professionals, researchers, and upper-level students interested in learning more about the complex relationship between terrorism and the media.

XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013 Routledge

The book is about an empirical, systems theory of a general, systemic/structural view of parts of the world integrated with creative problem solving procedure with the latter generating a ‘product and systems’ design method. As an alternative to the speculative and fragmented nature of current ‘systems thinking’ and practice, the book proposes three principles of systems: ‘Generality/nested hierarchy, changes of equilibrium states and problem solving/purpose’ together with ‘linguistic modelling’ using processed, natural language or transformation of narratives of scenarios into sequences of logical conditionals, the executor of the principles. Implementation of the creative, innovative, inspirational stage leads to ‘design parameters’ which guide the detailed design of systems and products defined as any entity capable of generating interaction. Uncertainties and mathematical models are introduced at the object/agent level as required. The theory is ‘property driven’ i.e., uses qualitative, quantitative properties including social, emotive and other mental states. Elementary, systemic or structural properties are ‘1 - and 2 – place simple sentences’ which can lead to operational representations when appropriate. Meaning preserving, linguistic transformations convert a narrative or story into such sentences. A user driven approach to the analysis of ‘information’ is introduced. Recent paradigm changes and problematic issues in current ‘systems thinking’ are reviewed. The theory is based on accepted branches of knowledge such as linguistics, network theory, biology, physics, chemistry, social science as needed, it is highly teachable, introduces linguistics in addition to mathematics as a symbolic model and can inspire further research. It introduces four criteria for judging the ‘soundness’ of symbolic models. However, it needs peer review, software development to work out the dynamics of scenarios and further developments for applications to more practical problem situations in organisations, technical and natural circumstances.

Everydata Springer Science & Business Media

Linguistic Modelling of Scenarios proposes a paradigm change from the

'systemic VIEW' to 'systems SCIENCE', so as to extend the methodology of conventional science of physics into the domains hitherto beyond the reach of this kind of treatment. The book: I. Identifies the problematic issues in current approaches to the 'systemic or structural view' of parts of the world as opposed to the 'quantitative/qualitative views' of conventional science of physics and the arts whereby introducing the 'third culture'. II. Locates the position of the structural view in the context of 'human intellectual endeavour'. III. Discusses the fundamental questions raised by modelling aspects of human behaviour. IV. Introduces the basic ideas and the symbolism of linguistic modelling which are then applied to turning descriptions of scenarios as a story or narrative into reasoning schemes. V. Describes a methodology of 'problem solving' of which design thinking and the operation of purposive systems are seen as essential ingredients. Problem solving is a universal activity of living in particular human beings through innovation, invention and creativity. Lack of this activity leads to death! Problem solving is regarded as pivotal point which may propel the spread of the modified structural view into social, technical, cultural and educational awareness. VI. Shows the location of aspects of conventional science within the scheme of systems science whereby achieving a 'continuity of the scientific endeavour'. VII. Outlines a teaching scheme for 'linguistic modelling'. Janos Korn explains how a view can be converted into a science which can lead to a possibility of 'organised speculation' or simulation of behaviour, exploring the effects of variation of parameters on performance, and the occurrence of outcomes of operations, beneficial or not, of dynamic structures. Static and dynamic structures are expressed in more rigorous and computable terms so that the results of analysis and design of human activity scenarios could be exposed to at least thought experiments. Linguistic Modelling of Scenarios is an informative read for any professionals, teachers and students of engineering, social science, management, business and production.