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IAENG TRANSACTIONS ON ENGINEERING SCIENCES

SPECIAL ISSUE OF THE INTERNATIONAL MULTICONFERENCE OF ENGINEERS AND COMPUTER SCIENTISTS 2013 AND WORLD CONGRESS ON ENGINEERING 2013

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 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

ADVANCES AND TRENDS IN ENGINEERING SCIENCES AND TECHNOLOGIES

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ENGINEERING SCIENCES AND TECHNOLOGIES, 27-29 MAY 2015, TATRANSKÉ MATLIARE , HIGH TATRAS MOUNTAINS - SLOVAK REPUBLIC

CRC Press The International Conference on Engineering Sciences and Technologies (ESaT 2015), organized under the auspices of the Faculty of Civil Engineering, Technical University in Koice Slovak Republic was held May 27-29, 2015 in the High Tatras, Slovak Republic. Facilitating discussions on novel and fundamental advances in the fields of

ADVANCES IN ETHANOL RESEARCH AND APPLICATION: 2013 EDITION

SCHOLARLYBRIEF

ScholarlyEditions Advances in Ethanol Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Advances in Ethanol Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Ethanol Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

ADVANCES IN NERVOUS SYSTEM TRAUMA RESEARCH AND TREATMENT: 2013 EDITION

ScholarlyEditions Advances in Nervous System Trauma Research and Treatment: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Craniocerebral Trauma. The editors have built Advances in Nervous System Trauma Research and Treatment: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Craniocerebral Trauma in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Nervous System Trauma Research and Treatment: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

JOURNAL OF SCIENCE AND ENGINEERING

VOLUME 1

ORIC Publications

HANDBOOK OF RESEARCH ON TECHNOLOGY TOOLS FOR REAL-WORLD SKILL DEVELOPMENT

IGI Global Education is expanding to include a stronger focus on the practical application of classroom lessons in an effort to prepare the next generation of scholars for a changing world economy centered on collaborative and problem-solving skills for the digital age. The Handbook of Research on Technology Tools for Real-World Skill Development presents comprehensive research and discussions on the importance of practical education focused on digital literacy and the problem-solving skills necessary in everyday life. Featuring timely, research-based chapters exploring the broad scope of digital and computer-based learning strategies including, but not limited to, enhanced classroom experiences, assessment programs, and problem-solving training, this publication is an essential reference source for academicians, researchers, professionals, and policymakers interested in the practical application of technology-based learning for next-generation education.

STUDENT CONFERENCE MEDICAL ENGINEERING SCIENCE 2013

PROCEEDINGS

GRIN Verlag Anthology from the year 2013 in the subject Medicine - Biomedical Engineering, University Lübeck (Medisert), course: Studierendentagung, language: English, abstract: The Student Conference on Medical Engineering Science is an annual event at the BioMedTec Science Campus Luebeck. The Student Congress is organized by the University of Lübeck and supported by NORGENTA, the life science cluster agency in north Germany. Master students of programs related to medical engineering science present results of their recent research projects. Die Studierendentagung Medizintechnik findet jährlich auf dem BioMedTec Wissenschaftscampus Lübeck statt. Der Kongress wird von der Universität zu Lübeck organisiert und von der norddeutschen Life-Science-Clusteragentur

NORGENTA unterstützt. Studierende in Masterprogrammen der Medizintechnik und der Lebenswissenschaften präsentieren die Ergebnisse ihrer jüngsten Forschungsprojekte.

REVIEW OF DEPARTMENT OF DEFENSE TEST PROTOCOLS FOR COMBAT HELMETS

National Academies Press Combat helmets have evolved considerably over the years from those used in World War I to today's Advanced Combat Helmet. One of the key advances was the development of aramid fibers in the 1960s, which led to today's Kevlar-based helmets. The Department of Defense is continuing to invest in research to improve helmet performance, through better design and materials as well as better manufacturing processes. Review of the Department of Defense Test Protocols for Combat Helmets considers the technical issues relating to test protocols for military combat helmets. At the request of the DOD Director of Operational Test and Evaluation, this report evaluates the adequacy of the Advanced Combat Helmet test protocol for both first article testing and lot acceptance testing, including its use of the metrics of probability of no penetration and the upper tolerance limit (used to evaluate backface deformation). The report evaluates appropriate use of statistical techniques in gathering data; adequacy of current helmet testing procedures; procedures for the conduct of additional analysis of penetration and backface deformation data; and scope of characterization testing relative to the benefit of the information obtained.

THE ENGINEER

ENVIRONMENTAL SUCCESS STORIES

SOLVING MAJOR ECOLOGICAL PROBLEMS AND CONFRONTING CLIMATE CHANGE

Columbia University Press Unlike many titles on environmental issues that portend a dark future, Environmental Success Stories delves into the most daunting ecological and environmental challenges humankind has faced and shows how scientists, citizens, and a responsive public sector have dealt with them successfully. In addition to presenting the basic chemical and environmental science underlying problems like providing clean drinking water, removing DDT and lead from agriculture and our homes, and curtailing industrial pollution, this book also discusses the political actors, agency regulators, and community leaders who have collaborated to enact effective legislation. Sharing the stories of the people, organizations, and governments who have addressed these problems successfully, Frank M. Dunnivant explains how we might confront the world's largest and most complex environmental crisis: climate change. Now is the time for rededicated scientific exploration and enlightened citizen action to save our environment, and Dunnivant's book offers a stirring call to action.

TRANSACTIONS ON ENGINEERING TECHNOLOGIES

INTERNATIONAL MULTICONFERENCE OF ENGINEERS AND COMPUTER SCIENTISTS 2016

Springer This volume contains selected revised and extended research articles written by prominent researchers who participated in the International MultiConference of Engineers and Computer Scientists 2016, held in Hong Kong, 16-18 March 2016. Topics covered include engineering physics, communications systems, control theory, automation, engineering mathematics, scientific computing, electrical engineering, and industrial applications. The book showcases the tremendous advances in engineering technologies and applications, and also serves as an excellent reference work for researchers and graduate students working on engineering technologies, physical sciences and their applications.

200 TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING RIGS

Petrogav International The job interview is probably the most important step you will take in your job search journey. Because it's always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry. Since these questions are so common, hiring managers will expect you to be able to answer them smoothly and without hesitation. This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 309 video movies for a better understanding of the technological process. This course covers aspects like HSE, Process, Mechanical, Electrical and Instrumentation & Control that will enable you to apply for any position in the Oil and Gas Industry.

ACYCLIC ACIDS—ADVANCES IN RESEARCH AND APPLICATION: 2013 EDITION

SCHOLARLYBRIEF

ScholarlyEditions Acyclic Acids—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Acyclic Acids—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Acyclic Acids—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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150 TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING PLATFORMS

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LIGHT METALS 2013

John Wiley & Sons The Light Metals series is widely recognized as the definitive source of information on new developments in aluminum production technology. This new volume presents proceedings from 2013's Light Metal Symposia, covering the latest research and technologies on such areas as alumina and bauxite, aluminum reduction technology, electrode technology for aluminum production, cast shop for aluminum production, aluminum processing aluminum alloys, and cost affordable titanium IV. It also includes papers from

a keynote presentation session discussing impurities in the aluminum supply chain are also included.

ADVANCES IN COMPUTING AND DATA SCIENCES

FIRST INTERNATIONAL CONFERENCE, ICACDS 2016, GHAZIABAD, INDIA, NOVEMBER 11-12, 2016, REVISED SELECTED PAPERS

Springer This book constitutes the refereed proceedings of the First International Conference on Advances in Computing and Data Sciences, ICACDS 2016, held in Ghaziabad, India, in November 2016. The 64 full papers were carefully reviewed and selected from 502 submissions. The papers are organized in topical sections on Advanced Computing; Communications; Informatics; Internet of Things; Data Sciences.

INTELLIGENT SYSTEMS AND APPLICATIONS

PROCEEDINGS OF THE 2018 INTELLIGENT SYSTEMS CONFERENCE (INTELLISYS) VOLUME 2

Springer Gathering the Proceedings of the 2018 Intelligent Systems Conference (IntelliSys 2018), this book offers a remarkable collection of chapters covering a wide range of topics in intelligent systems and computing, and their real-world applications. The Conference attracted a total of 568 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer review process, after which 194 (including 13 poster papers) were selected to be included in these proceedings. As intelligent systems continue to replace and sometimes outperform human intelligence in decision-making processes, they have made it possible to tackle many problems more effectively. This branching out of computational intelligence in several directions, and the use of intelligent systems in everyday applications, have created the need for such an international conference, which serves as a venue for reporting on cutting-edge innovations and developments. This book collects both theory and application-based chapters on all aspects of artificial intelligence, from classical to intelligent scope. Readers are sure to find the book both interesting and valuable, as it presents state-of-the-art intelligent methods and techniques for solving real-world problems, along with a vision of future research directions.

SECURITY OPPORTUNITIES IN NANO DEVICES AND EMERGING TECHNOLOGIES

CRC Press The research community lacks both the capability to explain the effectiveness of existing techniques and the metrics to predict the security properties and vulnerabilities of the next generation of nano-devices and systems. This book provides in-depth viewpoints on security issues and explains how nano devices and their unique properties can address the opportunities and challenges of the security community, manufacturers, system integrators, and end users. This book elevates security as a fundamental design parameter, transforming the way new nano-devices are developed. Part 1 focuses on nano devices and building security primitives. Part 2 focuses on emerging technologies and integrations.

273 TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING RIGS

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273 TECHNICAL QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE OIL & GAS PLATFORMS

Petrogav International This book offers you a brief, but very involved look into the operations in the exploitation of Oil & Gas wells that will help you to be prepared for job interview at oil & gas companies. From start to finish, you'll see a general prognosis of the production process. If you are new to the oil & gas industry, you'll enjoy having a leg up with the knowledge of these processes. If you are a seasoned oil & gas person, you'll enjoy reading what you may or may not know in these pages. This course provides a non-technical overview of the phases, operations and terminology used on offshore production platforms. It is intended also for non-drilling personnel who work in the offshore drilling, exploration and production industry. This includes marine and logistics personnel, accounting, administrative and support staff, environmental professionals, etc. No prior experience or knowledge of drilling operations is required. This course will provide participants a better understanding of the issues faced in all aspects of drilling operations, with a particular focus on the unique aspects of offshore operations.

MORAL SYSTEMS AND THE EVOLUTION OF HUMAN RIGHTS

Springer This volume offers a comprehensible account of the development and evolution of moral systems. It seeks to answer the following questions: If morals are eternal and unchanging, why have the world's dominant religious moral systems been around for no more than a mere six thousand of the two hundred thousand years of modern human existence? What explains the many and varied moral systems across the globe today? How can we account for the significant change in moral values in one place in less than 100 years' time? Using examples from classical civilizations, the book demonstrates how increasing diversity compromises a moral system's ability to account for and integrate larger populations into a single social unit. This environmental stress is not relieved until a broader, more abstract moral system is adopted by a social system. This new system provides a sense of belonging and purpose for more people, motivating them to engage in prosocial (or moral) acts and refrain from socially disruptive selfish acts. The current human rights paradigm is the world's first universal, indigenous moral system. Because moral systems can be expected to continue to evolve, this book points to current boundaries of the human rights paradigm and where the next major moral revolution might emerge.

JOB INTERVIEW QUESTIONS AND ANSWERS FOR EMPLOYMENT ON OFFSHORE DRILLING PLATFORMS

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SAFETY, RELIABILITY AND RISK ANALYSIS

BEYOND THE HORIZON

CRC Press During the last decade there have been increasing societal concerns over sustainable developments focusing on the conservation of the environment, the welfare and safety of the individual and at the same time the optimal allocation of available natural and financial resources. As a consequence the methods of risk and reliability analysis are becoming

MORPHING WING TECHNOLOGIES

LARGE COMMERCIAL AIRCRAFT AND CIVIL HELICOPTERS

Butterworth-Heinemann Morphing Wings Technologies: Large Commercial Aircraft and Civil Helicopters offers a fresh look at current research on morphing aircraft, including industry design, real manufactured prototypes and certification. This is an invaluable reference for students in the aeronautics and aerospace fields who need an introduction to the morphing discipline, as well as senior professionals seeking exposure to morphing potentialities. Practical applications of morphing devices are presented—from the challenge of conceptual design incorporating both structural and aerodynamic studies, to the most promising and potentially flyable solutions aimed at improving the performance of commercial aircraft and UAVs. Morphing aircraft are multi-role aircraft that change their external shape substantially to adapt to a changing mission environment during flight. The book consists of eight sections as well as an appendix which contains both updates on main systems evolution (skin, structure, actuator, sensor, and control systems) and a survey on the most significant achievements of integrated systems for large commercial aircraft. Provides current worldwide status of morphing technologies, the industrial development expectations, and what is already available in terms of flying systems Offers new perspectives on wing structure design and a new approach to general structural design Discusses hot topics such as multifunctional materials and auxetic materials Presents practical applications of morphing devices

WEARABLE INTERACTION

Springer Nature This book offers the reader a comprehensive view of the design space of wearable computers, cutting across multiple application domains and interaction modalities. Besides providing several examples of wearable technologies, Wearable Interaction illustrates how to create and to assess interactive wearables considering human factors in design decisions related to input entry and output responses. The book also discusses the impacts of form factors and contexts of use in the design of wearable interaction. Miniaturized components, flexible materials, and sewable electronics toolkits exemplify advances in technology that facilitated the design and development of wearable technologies. Despite such advances, creating wearable interfaces that are efficient is still challenging. The new affordances of on-body interfaces require the consideration of new interaction paradigms, so that the design decisions for the user interaction take into account key limitations in the interaction surfaces of wearables concerning input entry, processing power for output responses, and in the time and attention that wearers dedicate to complete their interaction. Under such constraints, creating interfaces with high usability levels is complex. Also, because wearables are worn continuously and in close contact with the human body, on-body interfaces must be carefully designed to neither disturb nor overwhelm wearers. The context of use and the potential of wearable technologies must be both well understood to provide users with relevant information and services using appropriate approaches and without overloading them with notifications. Wearable Interaction explains thoroughly how interactive wearables have been created taking into account the needs of end users as well as the vast potential that wearable technologies offer. Readers from academia, industry or government will learn how wearables can be designed and developed to facilitate human activities and tasks across different sectors.

PRODUCTION CHEMICALS FOR THE OIL AND GAS INDUSTRY, SECOND EDITION

CRC Press Production chemistry issues result from changes in well stream fluids, both liquid and gaseous, during processing. Since crude oil production is characterized by variable production rates and unpredictable changes to the nature of the produced fluids, it is essential for production chemists to have a range of chemical additives available for rectifying issues that would not otherwise be fully resolved. Modern production methods, the need to upgrade crude oils of variable quality, and environmental constraints demand chemical solutions. Thus, oilfield production chemicals are necessary to overcome or minimize the effects of the production chemistry problems. Production Chemicals for the Oil and Gas Industry, Second Edition discusses a wide variety of production chemicals used by the oil and gas industry for down-hole and topside applications both onshore and offshore. Incorporating the large amount of research and applications since the first edition, this new edition reviews all past and present classes of production chemicals, providing numerous difficult-to-obtain references, especially SPE papers and patents. Unlike other texts that focus on how products perform in the field, this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance—information that is very useful for research and development. Each updated chapter begins by introducing a problem, such as scale or corrosion, for which there is a production chemical. The author then briefly discusses all chemical and nonchemical methods to treat the problem and provides in-depth descriptions of the structural classes of relevant production chemicals. He also mentions, when available, the environmental properties of chemicals and whether the chemical or technique has been successfully used in the field. This edition includes two new chapters and nearly 50 percent more references.

CLIMATE TECHNOLOGY, GENDER, AND JUSTICE

THE STANDPOINT OF THE VULNERABLE

Springer This book is the first to undertake a gendered analysis of geoengineering and alternative energy sources. Are either of these technologies sufficiently attendant to gender issues? Do they incorporate feminist values as articulated by the renowned social philosopher Helen Longino, such as empirical adequacy, novelty, heterogeneity, complexity and applicability to human needs? The overarching argument in this book contends that, while mitigation strategies like solar and wind energy go much further to meet feminist objectives and virtues, geoengineering is not consistent with the values of justice as articulated in Longino's feminist approach to science. This book provides a novel, feminist argument in support of pursuing alternative energy in the place of geoengineering. It provides an invaluable contribution for academics and students working in the areas of gender, science and climate change as well as policy makers interested in innovative ways of taking up climate change mitigation and gender.

IRAN'S ROCKET AND MISSILE FORCES AND STRATEGIC OPTIONS

Rowman & Littlefield Iran's rocket and missile forces serve a wide range of Iranian strategic objectives. This study examines how Iran's forces and systems are steadily evolving.

CERTIFYING SOFTWARE COMPONENT PERFORMANCE SPECIFICATIONS

KIT Scientific Publishing

QUESTIONS AND ANSWERS FOR JOB INTERVIEW OFFSHORE DRILLING PLATFORMS

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USING TECHNOLOGY TOOLS TO INNOVATE ASSESSMENT, REPORTING, AND TEACHING PRACTICES IN ENGINEERING EDUCATION

IGI Global Many can now conclude that utilizing educational technologies can be considered the primary tools to inspire students to learn. Combining these technologies with the best teaching and learning practices can engage in creativity and imagination in the engineering field. Using Technology Tools to Innovate Assessment, Reporting, and Teaching Practices in Engineering Education highlights the lack of understanding of teaching and learning with technology in higher education engineering programs while emphasizing

the important use of this technology. This book aims to be essential for professors, graduate, and undergraduate students in the engineering programs interested learning the appropriate use of technological tools.

COMPLETE EBOOK FOR EMPLOYMENT ON DRILLING PLATFORMS

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EMPLOYMENT ON OFFSHORE DRILLING PLATFORMS COMPLETE COURSE

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ANALYTIC METHODS IN SYSTEMS AND SOFTWARE TESTING

John Wiley & Sons A comprehensive treatment of systems and software testing using state of the art methods and tools This book provides valuable insights into state of the art software testing methods and explains, with examples, the statistical and analytic methods used in this field. Numerous examples are used to provide understanding in applying these methods to real-world problems. Leading authorities in applied statistics, computer science, and software engineering present state-of-the-art methods addressing challenges faced by practitioners and researchers involved in system and software testing. Methods include: machine learning, Bayesian methods, graphical models, experimental design, generalized regression, and reliability modeling. Analytic Methods in Systems and Software Testing presents its comprehensive collection of methods in four parts: Part I: Testing Concepts and Methods; Part II: Statistical Models; Part III: Testing Infrastructures; and Part IV: Testing Applications. It seeks to maintain a focus on analytic methods, while at the same time offering a contextual landscape of modern engineering, in order to introduce related statistical and probabilistic models used in this domain. This makes the book an incredibly useful tool, offering interesting insights on challenges in the field for researchers and practitioners alike. Compiles cutting-edge methods and examples of analytical approaches to systems and software testing from leading authorities in applied statistics, computer science, and software engineering Combines methods and examples focused on the analytic aspects of systems and software testing Covers logistic regression, machine learning, Bayesian methods, graphical models, experimental design, generalized regression, and reliability models Written by leading researchers and practitioners in the field, from diverse backgrounds including research, business, government, and consulting Stimulates research at the theoretical and practical level Analytic Methods in Systems and Software Testing is an excellent advanced reference directed toward industrial and academic readers whose work in systems and software development approaches or surpasses existing frontiers of testing and validation procedures. It will also be valuable to post-graduate students in computer science and mathematics.

HOW TO GET A JOB ON OFFSHORE DRILLING PLATFORMS

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PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON RESEARCH OF ARTS, DESIGN AND HUMANITIES (ISRADH 2014)

Springer This book examines the interaction between art, design, technology and the social sciences. It features 56 papers that were presented at the International Symposium on Research of Arts, Design and Humanities, ISRADH 2014, held at Sutera Harbour Resort, Kota Kinabalu, Malaysia. Complete with helpful diagrams and tables, the papers cover such topics as artificial reef development, racial discourse in the social media, stoneware as a replacement material for modern ventilation walls, and factors contributing to internet abuse in the workplace. Overall, the coverage focuses on global design trends and demands with an emphasis on people, business and technology. Inside, readers will find information on art and science in industrial applications; art management and entrepreneurship; cognitive, psychological and behavioral science; design technology and sustainable development; humanities and social applications in quality of life; social implications of technology; and visual communication and technologies. Taking a multi-disciplinary approach, the book features insightful discussions among academicians and industrial practitioners on the evolution of design that will appeal to researchers, designers and students.

IAENG TRANSACTIONS ON ENGINEERING SCIENCES

SPECIAL ISSUE FOR THE INTERNATIONAL ASSOCIATION OF ENGINEERS CONFERENCES 2014

World Scientific Two large international conferences on Advances in Engineering Sciences were held in Hong Kong, March 12-14, 2014, under the International MultiConference of Engineers and Computer Scientists (IMECS 2014), and in London, UK, 2-4 July, 2014, under the World Congress on Engineering 2014 (WCE 2014) respectively. This volume contains 37 revised and extended research articles written by prominent researchers participating in the conferences. Topics covered include engineering mathematics, computer science, electrical engineering, manufacturing engineering, industrial engineering, and industrial applications. The book offers tremendous state-of-the-art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with/on engineering sciences. Contents: Switching Boundaries for Flexible Management of Natural Resource Investment under Uncertainty (T Tarnopolskaya, W Chen and C Bao) Using Exotic Option Prices as Control Variates in Monte Carlo Pricing Under a Local-Stochastic Volatility Model (Geoffrey Lee, Zili Zhu and Yu Tian) Multi-period Dynamic Portfolio Optimization through Least Squares Learning (C Bao, Z Zhu, N Langrené and G Lee) On General Solution of Incompressible and Isotropic Newtonian Fluid Equations (A A Maknickas) On the Inversion of Vandermonde Matrix via Partial Fraction Decomposition (Yiu Kwong Man) Fractal Fourier Coefficients with Application to Identification Protocols (Nadia M G Al-Saidi, Arkan J Mohammed, Elisha A Ogada and Adil M Ahmed) Scheduling Algorithm with Inserted Idle Time for Problem P|prec|Cmax (N S Grigoreva) Iterative Scheme for a Common Solutions of Equilibrium Problems, Variational Inequality Problems and Fixed Point Problems (Wichan Khongtham) Three-steps Iterative Method for Common Fixed Points, Variational Inclusions, and Equilibrium Problems (Yaowaluck Khongtham) Euler's Constant: A Proof of its Irrationality and Transcendence by means of Minus One Factorial (Okoh Ufuoma) Solution of Problem on Heat and Mass Transfer with Chemical Reaction over an Exponentially Accelerated Infinite Vertical Plate (A Ahmed, M N Sarki and M Ahmad) Improving Human Resource Security of a Data Centre: Case Study of a Hong Kong Wines and Spirits Distribution Company (Hon Keung Yau and Alison Lai Fong Cheng) Model to Measure University's Readiness for Establishing Spin-offs: Comparison Study (Wahyudi Sutopo, Rina Wiji Astuti, Yuniaristanto, Agus Purwanto and Muhammad Nizam) Preliminary Study of Solar Electricity using Comparative Analysis (Wahyudi Sutopo, Dwi Indah Maryanie, Agus Purwanto and Muhammad Nizam) Tactile Memory for Different Shapes: Implications for Shape Coding in Man-machine Interfaces (Annie W Y Ng and Alan H S Chan) Ergonomics Recommendations for Control Station Work with Head Rotation (Steven N H Tsang, Stefanie X Q Kang and Alan H S Chan) A Methodological Approach to Affective Design (Youngil Cho and Sukyoung Kim) Data Analysis by Diminishing Rates of Change and l_1 Approximation (I C Demetriou and S S Papakonstantinou) Comparing Naïve-Bayes Network Structures over Multiple Datasets (Haruna Chiroma, Abdulsalam Ya'u Gital, Adamu I Abubakar, Sanah Abdullahi Muaz, Jaafar Z Maitama and Tutut Herawan) Route Recommendation Method Based on Driver's Estimated Intention Considering Route Selection with Car Navigation (Keisuke Hamada, Shinsuke Nakajima, Daisuke Kitayama and Kazutoshi Sumiya) Adaption of the Inertia Weight using a Novel Sine-based Chaotic Map for Particle Swarm Optimization (Yu-Huei Cheng) Fast Characterization of Intravascular Tissue by Subspace Method using Target Tissue's Neighborhood Information (Shota Furukawa, Eiji Uchino, Shinichi Miwa and Noriaki Suetake) Swarm Intelligent Control Object's Movement Simulation in Net-centric Environment using Neural Networks (Viacheslav Abrosimov) The Concept of Project Time Management with the Fuzzy Buffers Approach (Błaszczuk Paweł and Błaszczuk Tomasz) Data Driven Methods for Adaptation of ASR Systems (Akella Amarendra Babu, Yellasiri Ramadevi and Akepogu Ananda Rao) Semantic Web Improved by Including Class Information with the TFIDF Algorithm (Jyoti Gautam and Ela Kumar) Urban Drainage in the Metropolitan Region of Belém, Brazil: An Urbanistic Study (Juliano Pamplona Ximenes Ponte and Ana Júlia Domingues Das Neves Brandão) Finger Based Techniques for Nonvisual Touchscreen Text Entry (Mohammed Fakrudeen, Sufian Yousef, Mahdi H Miraz and Abdelrahman Hamza Hussein) LTE Downlink and Uplink Physical Layer (Temitope O Takpor and Francis E Idachaba) New Dielectric Modulated Graphene (DMG) FET-Based Sensor for High-performance Biomolecule Sensing Applications (Faycal Djeflal, Abdelhamid Benhaya, Khalil Tamersit and Mohamed Meguellati) Modelling and Optimization of Avalanche Photodiode Electrical Parameters using Multiobjective Genetic Algorithm (Toufik Bendib, Lucio

Pancheri, Faycal Djefal and Gian-Franco Dalla Betta) Experimental Study of Impact of Ship Electric Power Plant Configuration and Load Variation on Power Quality in the Ship Power Systems (Tomasz Tarasiuk, Andrzej Pilat, Mariusz Szweda, Mariusz Gorniak and Zenon Troka) Studying of Electroencephalographic Signal Changes Induced by Odor Exposure (Rita Jorge Cerqueira Pinto, Isabel Patrícia Pinheiro Peixoto Xavier, Maria Do Rosário Alves Calado and Sílvio José Pinto Simões Mariano) DC Motor Speed Control using FGPA (Ahmed Telba) Pellistor Gas Sensor Performance: Interface Circuitry Analysis (Hauwa Talatu Abdulkarim) Extended Research on Prefilter Bandwidth Effects in Asynchronous Sequential Symbol Synchronizers based on Pulse Comparison by both Transitions at Half Bit Rate (Antonio D Reis, Jose F Rocha, Atilio S Gameiro and Jose P Carvalho) Models of Organizational Change for Modernizing Pollution Warning Services (Anca Daniela Ionita and Mariana Mocanu) Readership: Professionals, academics and graduate students in electrical & electronic engineering, computer engineering, industrial engineering and mathematics. Key Features: This volume contains revised and extended research articles written by prominent researchers participating in the conferences. The book offers the state of art of tremendous advances in engineering sciences. The book can also serve as an excellent reference work for researchers and graduate students working with/on engineering sciences. Keywords: Engineering Mathematics; Computer Science; Electrical Engineering; Manufacturing Engineering; Industrial Engineering; Industrial Applications