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This book gathers selected papers presented at the Inventive Communication and Computational Technologies conference (ICICT 2019), held on 29-30 April 2019 at Gnanamani College of Technology, Tamil Nadu, India. The respective contributions highlight recent research efforts and advances in a new paradigm called ISMAC (IoT in Social, Mobile, Analytics and Cloud contexts). Topics covered include the Internet of Things, Social Networks, Mobile Communications, Big Data Analytics, Bio-inspired Computing and Cloud Computing. The book is chiefly intended for academics and practitioners working to resolve practical issues in this area.

This book is ground breaking in its study of business actors in climate and energy politics. While various studies have demonstrated the influence of business actors across multiple policy domains, this is the first to examine the behaviour of business actors in energy centric industries in the US that will be vital for achieving a clean energy transition, namely the oil, gas, coal, utility, and renewable industries.

Drawing on almost 80 interviews with senior energy executives, lobbyists, and policymakers, it asks two central questions: (i) how and why are business actors shaping energy policy contests in the US? And (ii) what are the implications for policymakers? In answering these questions, this book provides new insights about the preferences and strategies of business in the energy sector, and, significantly, it identifies strategies for policymakers seeking to regulate energy in the face of political resistance from incumbent fossil fuel industries. This book will be of particular value to students, scholars, and policymakers working in the fields of energy, climate, and environmental politics, as well as individuals generally interested in the role that business exerts over policy processes.

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Smart Cities and Green ICT Systems, SMARTGREENS 2018, and the 4th International Conference on Vehicle Technology and Intelligent Transport Systems, VEHTS 2018, held in Funchal-Madeira, Portugal in March 2018. The 18 full papers presented during SMARTGREENS 2018 and VEHTS 2018 were carefully reviewed and selected from numerous submissions. The papers reflect topics such as smart cities and green ICT systems; vehicle technology and intelligent transport systems.

This book presents must-know facts generally not covered in “How To” books about medical writing. Every medical writer, whether a beginner or veteran, needs answers to questions many might not even know to ask. How does your personality type influence your writing behavior, and what can you do to make writing easier for you? What should you ask before agreeing to co-author an article for publication or write a book chapter? What are some of the current issues regarding copyright and plagiarism that authors may face? What has research discovered about the quotations and references found in journal articles? What do you need to know about open access journals and predatory publishers? Dr. Taylor tells some surprising truths about medical publishing, including possible sources of peer review bias and some alarming influences on what ends up in print. He also relates little-known stories about renowned medical writers such as Sir William Osler, William Carlos Williams and Elisabeth Kübler-Ross and the origins of some of medicine’s classic publications. What Every Medical Writer Needs to Know provides information vital for every health care professional who aspires to write for others to read: academicians and practicing physicians; nurses, nurse practitioners and physician assistants; and professional medical and scientific writers.

Nonparametric Statistics**Disaster Risk Communication****Vol 3, No 2: June 2014****Prediction and Assessment Beyond the Fukushima Accident****Boko Haram****Computational Intelligence, Communications, and Business Analytics****Libraries - Traditions and Innovations**

This book constitutes the refereed proceedings of the 12th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2016, and three parallel workshops, held in Thessaloniki, Greece, in September 2016. The workshops are the Third Workshop on New Methods and Tools for Big Data, MT4BD 2016, the 5th Mining Humanistic Data Workshop, MHDW 2016, and the First Workshop on 5G - Putting Intelligence to the Network Edge, 5G-PINE 2016 The 30 revised full papers and 8 short papers presented at the main conference were carefully reviewed and selected from 65 submissions. The 17 revised full papers and 7 short papers presented at the 3 parallel workshops were selected from 33 submissions. The papers cover a broad range of topics such as artificial neural networks, classification, clustering, control systems - robotics, data mining, engineering application of AI, environmental applications of AI, feature reduction, filtering, financial-economics modeling, fuzzy logic, genetic algorithms, hybrid systems, image and video processing, medical AI applications, multi-agent systems, ontology, optimization, pattern recognition, support vector machines, text mining, and Web-social media data AI modeling.

This book constitutes the refereed proceedings of the 20th InternationalConference on Knowledge Engineering and Knowledge Management, EKAW 2016,held in Bologna, Italy, in November 2016. The 51 full papers presented were carefully reviewed and selected from 171 submissions. The papers cover all aspects of eliciting, acquiring, modeling, and managing knowledge, the construction of knowledge-intensive systems and services for the Semantic Web, knowledge management, e-business, natural language processing,intelligent information integration, personal digital assistance systems, and a variety of other related topics. A special focus was on “evolving knowledge”, i.e., the impact of space and time on knowledge representation, concerning all aspects of the management and acquisition of knowledge representation of evolving, contextual, and local models.

Developing novel and more effective treatments that improve quality of life for individuals with autism spectrum disorders is urgently needed. To date a wide range of behavioral interventions have been shown to be safe and effective for improving language and cognition and adaptive behavior in children and adolescents with ASD. However many people with ASD can receive additional benefit from targeted pharmacological interventions. One of the major drawback in setting up therapeutics intervention is the remarkable individual differences found across individuals with ASD. As a matter of fact the medications that are currently available address only symptoms associated with ASD and not the core domains of social and communication dysfunction. The pathogenesis paradigm shift of ASD towards synaptic abnormalities moved the research to pathway to disease that involve multiple systems and that are becoming the forefront of ASD treatment and are pointing toward the development of new targeted treatments. Some new therapeutics have been tested and others are being studied. In this context single gene disorders frequently associated with ASD such as Fragile X syndrome, Rett syndrome and tuberous sclerosis have been of significant value in neurobiology of these disorders is more clear and has a potential to shed light on the altered signaling in ASD. However much research is needed to further understand the basic mechanisms of disease and the relationship to idiopathic ASD. Clinical trials in children are underway with agents directed to core symptoms and to the associated disorders in the search of new therapeutics and progress are expected with possible new option for therapeutics in ASD in the upcoming future. Children and Adolescents with ASD and their families can provide important information about their experience with new treatments and this should be a priority for future research. In addition, research performed on genetic mouse models of ASD will keep on providing useful information on the molecular pathways dysrupted in the disease, thus contributing to identify novel drug targets.

This book provides insights into waste management practices in developing countries, and the application of research and innovation in finding appropriate solutions to improved waste management. The chapters have been selected with a focus on organic waste beneficiation, a significant waste stream in developing countries; the role of government and associated policy interventions; citizen behaviour in support of greater waste recycling; and the safe management of hazardous waste, particularly healthcare risk waste.

Contributions to the 2nd International Conference on Advances in Materials and Pavement Performance Prediction (AM3P 2020), 27-29 May, 2020, San Antonio, TX, USA

Role of Power Law Distribution

New treatment perspectives in autism spectrum disorders

Second International Conference, SmartCom 2017, Pune, India, August 18-19, 2017, Revised Selected Papers

Waste Management Practices in Developing Countries

Link Prediction in Social Networks

Proceedings of the 14th International Congress on Rock Mechanics and Rock Engineering (ISRM 2019), September 13-18, 2019, Foz do Iguassu, Brazil

We consider libraries in the past, full of dusty tomes and musty staff. In truth, libraries are and historically have been sites of innovation and disruption. Originally presented at the Library History Seminar XII: Libraries, Traditions and Innovations, this collection of essays offers examples of the enduring and evolving aspects of libraries and librarianship. Whether belonging to a Caliph in 10th-century Spain, built for 19th-century mechanics, or intended for the segregated Southern United States, libraries serve as both a reflection and a contestation of their context. These essays illustrate that libraries are places of turmoil, where real social and cultural controversies are explored and resolved, where invention takes place, and where identities are challenged and defined, reinforcing tradition and commanding innovation.

In September 2011, scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research, but would have significant policy and intelligence implications. The findings presented a modified variant of the H5N1 avian influenza virus (hereafter referred to as the H5N1 virus) that was transmissible via aerosol between ferrets. These results suggested a worrisome possibility: the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic. In response, a series of international discussions on the nature of dual-use life science arose. These discussions addressed the complex social, technical, political, security, and ethical issues related to dual-use research. This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives.

Collection of selected, peer reviewed papers from the 3rd International Conference on Mechanical, Control, and Electronic Informatics (ICMCEI 2014), June 27- 29, 2014, Taiwan. Volume is indexed by Thomson Reuters CPCL-S (WoS). The 283 papers are grouped as follows: Chapter 1: Materials Science and Processing, Chapter 2: General Mechanical Engineering and Applied Mechanics, Chapter 3: Mechatronics, Control Systems and Robotics, Chapter 4: Electrical Engineering, Apparatus and Power Engineering, Chapter 5: Electronics and Integrated Circuits, Embedded Technology, Chapter 6: Measurements, Testing and Monitoring, Chapter 7: Signal, Image Processing and Computational Mathematics, Chapter 8: Communication, Networks and Information Technologies, Chapter 9: Traffic and Transportation, Chapter 10: Construction and Mining, Chapter 11: Earth Science and Environmental Engineering, Chapter 12: Biomedical Engineering, Chapter 13: Product Design and Industrial Engineering

Inventive Communication and Computational TechnologiesProceedings of ICICT 2019Springer Nature

Military Review

Large-Scale Disk Failure Prediction

Advances in Artificial Intelligence and Soft Computing

14th Mexican International Conference on Artificial Intelligence, MICAI 2015, Cuernavaca, Morelos, Mexico, October 25-31, 2015, Proceedings, Part I

Proceedings of the International Forum-Contest of Young Researchers, April 18-20, 2018, St. Petersburg, Russia

Challenges in Mechanics of Time Dependent Materials: Fracture, Fatigue, Failure and Damage Evolution, Volume 2

Rock Mechanics for Natural Resources and Infrastructure Development - Full Papers

This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of Topical Issues of Rational Use of Natural Resources contains the contributions presented at International Forum-Contest of Young Researchers 2018 (St. Petersburg Mining University, Russia, 18-20 April 2018). The Forum-Contest is an excellent opportunity for young researchers to present their work to the scientific community involved in the extraction and processing of natural resources. The topics of the book include: • Prospecting and exploration of mineral deposits • Development of solid minerals deposits and safety of mining operations • Development of oil and gas fields and transportation of crude hydrocarbons • Modern technologies of construction work applied in the mineral complex • Metallurgy, Physical and chemical technologies of hydrocarbons treatment • Equipment, transport service and energy efficiency of mining enterprises • Economic tools of innovative development • Environmental protection • Geo information systems and nanotechnologies Topical Issues of Rational Use of Natural Resources collects the best reports presented at the Forum-Contest, and will be of interest to academicians and professionals involved in the extraction and processing of natural resources.

This book is a printed edition of the Special Issue “Selected Papers from the 13th Estuarine and Coastal Modeling Conference” that was published in JMSE

This book contains 19 articles that were part of a Special Topic in Frontiers in Genetics entitled “Genetics Research in Electronic Health Records Linked to DNA Biobanks”. The Special Issue was published on-line in 2014-2015 and contained papers representing the diverse research ongoing in the integration of electronic health records (EHR) with genomics through basic, clinical, and translational research. We have divided the eBook into four Chapters. Chapter 1 describes the Electronic Medical Records and Genomics (eMERGE) network and its contribution to genomics. It highlights methodological questions related to large data sets such as imputation and population stratification. Chapter 2 describes the results of genetic studies on different diseases for which all the phenotypic information was extracted from the EHR with highly specific ePhenotyping algorithms. Chapter 3 focuses on more complex analyses of the genome including copy number variants (CNV), pleiotropy com-bined with phenotype-wide association studies (PheWAS), and epistasis (gene-gene interactions). Chapter 4 discusses the use of genetic data together with EHR-derived clinical data in clinical settings, and how to return genetic results to patients and providers. It also contains a comprehensive review on genetic risk scores. We have included mostly Original Research Articles in the eBook, but also Reviews and Methods papers on the relevant topics of analyzing and integrating genomic data. The release of this eBook is timely, since several countries are launching Precision Medicine initiatives. Precision Medicine is a new concept in patient care taking into account individual variability in genetic, environmental and lifestyle factors, when treating diseases or trying to prevent them from developing. It has become an important focus for biomedical, clinical and translational informatics. The papers presented in this eBook are well positioned to educate the readers about Precision Medicine and to demonstrate the potential study designs, methods, strategies, and applications where this type of research can be performed successfully. The ultimate goal is to improve diagnostics and provide better, more targeted care to the patient.

Fundamentals and Applications of AI: An Interdisciplinary Perspective

Artificial Intelligence for Communications and Networks

Forecasting: principles and practice

A Profession in Crisis

12th IFIP WG 12.5 International Conference and Workshops, AIAI 2016, Thessaloniki, Greece, September 16-18, 2016, Proceedings

Topical Issues of Rational Use of Natural Resources

Knowledge Engineering and Knowledge Management

Advances in Environmental Chemical Science and Engineering” various leading experts from the field of electrochemical engineering share their insights into how different experimental and computational methods are used in transferring molecular-scale discoveries into processes and products. Throughout, the focus is on the engineering problem and method of solution, rather than on the specific application, such that scientists from different backgrounds will benefit from the flow of ideas between the various subdisciplines. A must-read for anyone developing engineering tools for the next-generation design and control of electrochemical process technologies, including chemical, mechanical and electrical engineers, as well as chemists, physicists, biochemists and materials scientists.

This volume collects selected, peer-reviewed contributions from the 2nd Conference of the International Society for Nonparametric Statistics (ISNPS), held in Cádiz (Spain) between June 11–16 2014, and sponsored by the American Statistical Association, the Institute of Mathematical Statistics, the Bernoulli Society for Mathematical Statistics and Probability, the Journal of Nonparametric Statistics and Universidad Carlos III de Madrid. The 15 articles are a representative sample of the 336 contributed papers presented at the conference.

They cover topics such as high-dimensional data modelling, inference for stochastic processes and for dependent data, nonparametric and goodness-of-fit testing, nonparametric curve estimation, object-oriented data analysis, and semiparametric inference. The aim of the ISNPS 2014 conference was to bring together recent advances and trends in several areas of nonparametric statistics in order to facilitate the exchange of research ideas, promote collaboration among researchers from around the globe, and contribute to the further development of the field.

This book constitutes the refereed proceedings of the Second International Conference on Smart Trends in Information Technology and Computer Communications, SmartCom 2017, held in Pune, India, in August 2017. The 38 revised papers presented were carefully reviewed and selected from 310 submissions. The papers address issues on smart and secure systems; smart and service computing; smart data and IT innovations.

Insurgents in Nigeria: the highest extremist group Boko Haram has left thousands dead, shaken Africa’s biggest country and worried the world. Yet it remains a mysterious – almost unknowable – organisation, rough exhaustive on-the-ground reporting. Mike Smith takes readers inside the conflict and provides the first in-depth account of the violence and unrest. He traces Boko Haram from its beginnings as a small Islamist sect in Nigeria’s remote north-east, led by a baby-faced but charismatic preacher, to its transformation into a hybrid-headed entity deploying suicide bombers and abducting schoolgirls. Much of the book is told through the eyes of Nigerians who have found themselves caught between frightening insurgents and security forces accused of horrifying brutality. It includes the voices of a forgotten police officer left paralysed by an attack, women whose husbands have been murdered and a sword-wielding vigilante using charms to fend off insurgent bullets. It journeys through the sleaze and corruption that has robbed Africa’s biggest oil producer of its potential, making it such fertile ground for extremism.Along the way it questions whether there is any end to the violence and the ways in which this might be achieved. Interspersed with history, this book delves into the roots of this unholy war being waged by a virtually unknown organisation, which is set to shape the destiny of Africa’s biggest economy and most populous state - and perhaps affect the future of Africa.

The Lawyer Bubble

The Foundation of Precision Medicine: Integration of Electronic Health Records with Genomics Through Basic, Clinical, and Translational Research

20th International Conference, EKAW 2016, Bologna, Italy, November 19-23, 2016, Proceedings

7th International Conference, SMARTGREENS, and 4th International Conference, VEHTS 2018, Funchal-Madeira, Portugal, March 16-18, 2018, Revised Selected Papers

Inside Nigeria’s Unholy War

Third EAI International Conference, AICON 2021, Xining, China, October 23-24, 2021, Proceedings, Part I

Questions and Answers for the Serious Medical Author

The two volume set LNAI 9413 + LNAI 9414 constitutes the proceedings of the 14th Mexican International Conference on Artificial Intelligence, MICAI 2015, held in Cuernavaca, Morelos, Mexico, in October 2015. The total of 98 papers presented in these proceedings was carefully reviewed and selected from 297 submissions. They were organized in topical sections named: natural language processing; logic and multi-agent systems; bioinspired algorithms; neural networks; evolutionary algorithms; fuzzy logic; machine learning and data mining; natural language processing applications; educational applications; biomedical applications; image processing and computer vision; search and optimization; forecasting; and intelligent applications.

Rock Mechanics and Infrastructure Development contains the proceedings of the 14th ISRM International Congress (ISRM 2019, Foz do Iguaçu, Brazil, 13-19 September 2019). Starting in 1966 in Lisbon, Portugal, the International Society for Rock Mechanics and Rock Engineering (ISRM) holds its Congress every four years. At this 14th occasion, the Congress brings together researchers, professors, engineers and students around contemporary themes relevant to rock mechanics and rock engineering. Rock Mechanics for Natural Resources and Infrastructure Development contains 7 Keynote Lectures and 449 papers in ten chapters, covering topics ranging from fundamental research in rock mechanics, laboratory and experimental field studies, and petroleum, mining and civil engineering applications. Also included are the prestigious ISRM Award Lectures, the Leopold Muller Award Lecture by professor Peter K. Kaiser, and the Manuel Rocha Award Lecture by Dr. Quinghua Lei. Rock Mechanics for Natural Resources and Infrastructure Development is a must-read for academics, engineers and students involved in rock mechanics and engineering. Proceedings in Earth and geosciences - Volume 6 The ‘Proceedings in Earth and geosciences’ series contains proceedings of peer-reviewed international conferences dealing in earth and geosciences. The main topics covered by the series include: geotechnical engineering, underground construction, mining, rock mechanics, soil mechanics and hydrogeology.

Inspired from the legacy of the previous four 3DFEM conferences held in Delft and Athens as well as the successful 2018 AM3P conference held in Doha, the 2020 AM3P conference continues the pavement mechanics theme including pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance. The AM3P conference is organized by the Standing International Advisory Committee (SIAC), at the time of this publication chaired by Professors Tom Scarpas, Eyad Masad, and Amit Bhasin. Advances in Materials and Pavement Performance Prediction II includes over 111 papers presented at the 2020 AM3P Conference. The technical topics covered include: - rigid pavements - pavement geotechnics - statistical and data tools in pavement engineering - pavement structures - asphalt mixtures - asphalt binders The book will be invaluable to academicians and engineers involved or interested in pavement pavement models, experimental methods to estimate model parameters, and their implementation in predicting pavement performance.

A noble profession is facing its defining moment. From law schools to the prestigious firms that represent the pinnacle of a legal career, a crisis is unfolding. News headlines tell part of the story—the growing oversupply of new lawyers, widespread career dissatisfaction, and spectacular implisions of pre-eminent law firms. Yet eager hordes of bright young people continue to step over each other as they seek jobs with high rates of depression, life-consuming hours, and little assurance of financial stability. The Great Recession has only worsened these trends, but correction is possible and, now, imperative. In The Lawyer Bubble, Steven J. Harper reveals how a culture of short-term thinking has blinded some of the nation’s finest minds to the long-run implications of their actions. Law school deans have ceded independent judgment to flawed U.S. News & World Report rankings criteria in the quest to maximize immediate results. Senior partners in the nation’s large law firms have focused on current profits to enhance American Lawyer rankings and individual wealth at great cost to their institutions. Yet, wiser decisions—being honest about the legal job market, revisiting the financial incentives currently driving bad behavior, eliminating the billable hour model, and more—can take the profession to a better place. A devastating indictment of the greed, shortsightedness, and dishonesty that now permeate the legal profession, this insider account is essential reading for anyone who wants to know how things went so wrong and how the profession can right itself once again.

Mechanics of Flow-Induced Sound and Vibration, Volume 2

Selected Papers from the 13th Estuarine and Coastal Modeling Conference

2nd ISNPS, Cádiz, June 2014

Proceedings of the 2014 International Conference on Control Engineering and Information Systems (ICCEIS 2014, Yueyang, Hunan, China, 20-22 June 2014).

Papers from the Library History Seminar XIII

From Molecules to Processes

Lessons for a Clean Energy Transition

Mechanics of Flow-Induced Sound and Vibration, Volume 2: Complex Flow-Structure Interactions. Second Edition, enables readers to fully understand flow-induced vibration and sound, unifying the disciplines of fluid dynamics, structural dynamics, vibration, acoustics, and statistics in order to classify and examine each of the leading sources of vibration and sound induced by various types of fluid motion. Starting from classical theories of aeroacoustics and hydroacoustics, a formalism of integral solutions valid for sources near boundaries is developed and then broadened to address different source types, including hydrodynamically induced cavitation and bubble noise, turbulent wall-pressure fluctuations, pipe and duct systems, lifting surface flow noise and vibration, and noise from rotating machinery. Each chapter is illustrated with comparisons of leading formulas and measured data. Combined with its companion book, Mechanics of Flow-Induced Sound and Vibration, Volume 1: General Concepts and Elementary Sources, the book covers everything an engineer needs to understand flow-induced sound and vibration. This book will be a vital source of information for postgraduate students, engineers and researchers with an interest in aerospace, ships and submarines, offshore structures, construction, and ventilation. Presents every important topic in flow-induced sound and vibration Covers all aspects of the topics addressed, from fundamental theory, to the analytical formulas used in practice Provides the building blocks of computer modeling for flow-induced sound and vibration

Executive function is an umbrella term for various cognitive processes that are central to goal-directed behavior, thoughts, and emotions. These processes are especially important in novel or demanding situations, which require a rapid and flexible adjustment of behavior to the changing demands of the environment. The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child ’ s social contexts, especially the home and school. Over the past decade, the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting, planning, and organizing in academic success. Accordingly, in initiating this Research Topic and eBook our goal was to provide a forum for state-of-the-art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators. The contributors to this volume, who hail from several different countries in Europe and North America, have certainly accomplished this goal in their nuanced and cutting-edge depictions of the complex links among various executive function components and educational successes.

Book of Electrical Enginering and Informatics (Buletin Tehnik Elektronika) (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 3, No 2 June 2014 Table of Contents Predictions on the Development Dimensions of Provincial Tourism Discipline Based on the Artificial Neural Network BP Model PDF Yang Yung, Jun Hu, Mu Zhang 69-76 Study on the Rough-set-based Clustering Algorithm for Sensor Networks PDF Fengmei Liang, Liyuan Zhang, Peng Sun 77-90 Varying Vector Pulse Width Modulation for Three Phase Inverter PDF Raju J, Kowsalya M 91-100 Optimal Determination of Size and Site of DGs in Mesh System Using PSO PDF Mohammad Salehi Male, Adel Akbari Majd, Ramin Rasouli Nezhad 101-108 Voltage Sag Mitigation and Load Reactive Power Compensation by UPOFC PDF P. Ajitha, D. Jananiseti 109-112 A Power Quality Improvement for Microgrid Inverter Operated In Grid Connected and Grid Disconnected Modes PDF M. Tamil Selvi, D.G unapriya 113-118 Harmonic Reduction in Variable Frequency Drives Using Active Frame Algorithm Based on Space Vector Pulse Width Modulation for Five Level Cascaded H-Bridge Inverter PDF Gomathi C, Navya Nagath, Veerakumar S 127-140 Subthreshold Dual Mode Logic PDF J.Nageswara Reddy, T. Sathyanarayana, M.A. Khadar Baba 141-148

To some in academia, Massive Open Online Courses are a paradigm shift in online education, while others perceive them as a threat to traditional styles of pedagogy. In this regard, the time-honored model of the university lecture is seen as being a potential casualty of the rise of MOOCs. Macro-Level Learning through Massive Open Online Courses (MOOCs): Strategies and Predictions for the Future provides insight into the emerging phenomenon of MOOCs as a design manual for the course designer with a collection of chapters that deal with all facets of the MOOC debate. Industry training developers, corporate trainers, educators, post graduate students, and others will benefit from the information provided in this book.

What Every Medical Writer Needs to Know

Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges

Proceedings of the 2019 Annual Conference on Experimental and Applied Mechanics

First International Conference, CICBA 2017, Kolkata, India, March 24 – 25, 2017, Revised Selected Papers, Part I

Macro-Level Learning through Massive Open Online Courses (MOOCs): Strategies and Predictions for the Future

Electrochemical Engineering Across Scales

Control Engineering and Information Systems

Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems (ICCEIS 2014, Yueyang, Hunan, China, 20-22 June 2014). All major aspects of the theory and applications of control engineering and information systems are addressed, including: – Intelligent systems – Teaching cases – Pattern recognition – Industry application – Machine learning – Systems science and systems engineering – Data mining – Optimization – Business process management – Evolution of public sector ICT – IS economics – IS security and privacy – Personal data and networks – Wireless ad hoc and sensor networks – Database and system security – Application of spatial information system – Other related areas Control Engineering and Information Systems provides a valuable source of information for scholars, researchers and academics in control engineering and information systems.

This two-volume set LNICTS 396 and 397 constitutes the post-conference proceedings of the Third EAI International Conference on Artificial Intelligence for Communications and Networks, AICON 2021, held in September 2021. Due to COVID-19 pandemic the conference was held virtually. The 79 full papers were carefully reviewed and selected from 159 submissions. The papers are organized in topical sections on Artificial Intelligence in Wireless Communications and Satellite Communications; Artificial Intelligence in Electromagnetic Signal Processing; Artificial Intelligence Application in Wireless Caching and Computing; Artificial Intelligence Application in Computer Network.

This book covers seismic probabilistic risk assessment (S-PRA) and related studies which have become more important to increase the safety of nuclear facilities against earthquakes and tsunamis in the face of the many uncertainties after the Fukushima accident. The topics are (1) Active faults and active tectonics important for seismic hazard assessment of nuclear facilities,(2) Seismic source modeling and simulation and modeling techniques indispensable for strong ground motion prediction, and (3) PRA with external hazard and risk communication. The Fukushima accident has showed us the limitations of the deterministic evaluation approach to external events (an earthquake and tsunami) in which there are many uncertainties. Furthermore, public anxiety regarding nuclear safety caused by an unexpected threat caused by an earthquake or tsunami is growing. The current policy on the estimation of the design basis of ground motion as well as tsunami height still has not been improved following the Fukushima accident. In particular, the risk concept in a nuclear system regarding seismic motion and a tsunami beyond the design basis is indispensable. Therefore, research and development for PRA enhancing nuclear safety are being actively pursued not only in Japan but also worldwide. This book provides an opportunity for readers to consider the future direction of nuclear safety vis-à-vis natural disasters.

Challenges in Mechanics of Time-Dependent Materials, Volume 2 of the Proceedings of the 2019 SEM Annual Conference& Exposition on Experimental and Applied Mechanics, the second volume of six from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics, including papers in the following general technical research areas: Characterization Across Length Scales Extreme Conditions & Environmental Effects Soft Materials and Biomaterials Damage, Fatigue and Fracture Structure, Function and Performance Rate Effects in Elastomers Viscoelasticity & Viscoelasticity Research in Progress In-situ Techniques and Microscale Effects on Mechanical Behavior Fracture and Fatigue in Brittle Materials Novel Experimental Methods Fatigue and Fracture in Extreme Environments Integration of Models and Experiments Failure in Elastomers and Gels Rate Effects in Elastomers Microscale and Microstructural Effects on Mechanical Behavior Mechanics of Extreme Materials Additive Manufacturing: Fatigue and Fracture Mechanics of Composite Materials Interfacial and Mixed-Mode Fracture Vibration Effects and High Cycle Fatigue

Executive Function and Education

Attention, predictions and expectations, and their violation: attentional control in the human brain

Advances in Materials and Pavement Performance Prediction II

Nowcasting and Forecasting Elections with Social Media

Ships and Offshore Structures XIX

Smart Cities, Green Technologies and Intelligent Transport Systems

The importance of social media as a way to monitor an electoral campaign is well established. Day-by-day, hour-by-hour evaluation of the evolution of online ideas and opinion allows observers and scholars to monitor trends and momentum in public opinion well before traditional polls. However, there are difficulties in recording and analyzing often brief, unverified comments while the unequal age, gender, social and racial representation among social media users can produce inaccurate forecasts of final polls. Reviewing the different techniques employed using social media to nowcast and forecast elections, this book assesses its achievements and limitations while presenting a new technique of “sentiment analysis” to improve upon them. The authors carry out a meta-analysis of the existing literature to show the conditions under which social media-based electoral forecasts prove most accurate while new case studies from France, the United States and Italy demonstrate how much more accurate “sentiment analysis” can prove.

This work presents link prediction similarity measures for social networks that exploit the degree distribution of the networks. In the context of link prediction in dense networks, the text proposes similarity measures based on Markov inequality degree thresholding (MIDTs), which only consider nodes whose degree is above a threshold for a possible link. Also presented are similarity measures based on cliques (CNC, AAC, RAC), which assign extra weight between nodes sharing a greater number of cliques.

Additionally, a locally adaptive (LA) similarity measure is proposed that assigns different weights to common nodes based on the degree distribution of the local neighborhood and the degree distribution of the network. In the context of link prediction in dense networks, the text introduces a novel two-phase framework that adds edges to the sparse graph to forma boost graph.

Forecasting is required in many situations. Stocking an inventory may require forecasts of demand months in advance. Telecommunication routing requires traffic forecasts a few minutes ahead. Whatever the circumstances or time horizons involved, forecasting is an important aid in effective and efficient planning. This textbook provides a comprehensive introduction to forecasting methods and presents enough information about each method for readers to use them sensibly.

This book constitutes the thoroughly refereed post-competition proceedings of the AI Ops Competition on Large-Scale Disk Failure Prediction, conducted between February 7th and May 15, 2020 on the Alibaba Cloud Tianchi Platform. A dedicated workshop, featuring the best performing teams of the competition, was held at the 24th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2020, in Singapore, in April 2019. Due to the COVID-19 pandemic, the workshop was hosted online. This book includes 13 selected contributions: an introduction to dataset, selected approaches of the competing teams and the competition summary, describing the competition task, practical challenges, evaluation metrics, etc.

Applied Decisions in Area of Mechanical Engineering and Industrial Manufacturing

Artificial Intelligence Applications and Innovations

Business Battles in the US Energy Sector

Politics and Big Data

Earthquakes, Tsunamis and Nuclear Risks

Complex Flow-Structure Interactions

Proceedings of ICICCT 2019

The two volume set CCIS 775 and 776 constitutes the refereed proceedings of the First International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2017, held in Kolkata, India, in March 2017. The 90 revised full papers presented in the two volumes were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on data science and advanced data analytics; signal processing and communications; microelectronics, sensors, intelligent networks; computational forensics (privacy and security); computational intelligence in bio-computing; computational intelligence in mobile and quantum computing; intelligent data mining and data warehousing; computational intelligence.

This book provides a unique blend of integrated disaster risk communication research conducted by authors with diverse backgrounds, including social psychology, sociology, civil engineering, informatics, and meteorology. It reports on the latest advances in collaborative and participatory action research on community-based disaster management from the frontline in Japan, Nepal, China and the USA. In addition, it employs and integrate a broad range of methodologies, including mathematical analyses, computer simulations, questionnaire surveys, gaming approaches, and participatory observation. Each chapter deals with disaster risk communication initiatives to address various hazards, such as earthquakes, tsunamis, floods and landslides, which are uniquely integrated from a social psychological perspective.

Strategies and Predictions for the Future

Inventive Communication and Computational Technologies

PAKDD 2020 Competition and Workshop, AI Ops 2020, February 7 - May 15, 2020, Revised Selected Papers

A Challenge from a Social Psychological Perspective

Smart Trends in Information Technology and Computer Communications

Bulletin of Electrical Engineering and Informatics