

N3 Engineering Science Paper 2014

Semantic web technologies (SWTs) offer the richest machine-interpretable (rather than just machine-processable) and explicit semantics that are being extensively used in various domains and industries. This book provides a roadmap for semantic web technologies (SWTs) and highlights their role in a wide range of domains including cloud computing, Internet of Things, big data, sensor network, and so forth. It also explores the prospects of these technologies including different data interchange formats, query languages, ontologies, Linked Data, and notations. The role of SWTs in 'epidemic Covid-19', 'e-learning platforms and systems', 'block chain', 'open online courses', and 'visual analytics in healthcare' is described as well. This book: Explores all the critical aspects of semantic web technologies (SWTs) Discusses the impact of SWTs on cloud computing, Internet of Things, big data, and sensor network Offers a comprehensive examination of the emerging research in the areas of SWTs and their related domains Provides a template to develop a wide range of smart and intelligent applications Includes latest applications and examples with real data This book is aimed at researchers and graduate students in computer science, informatics, web technology, cloud computing, and Internet of Things.

This book constitutes the refereed proceedings of the 10th International Symposium on Bioinformatics Research and Applications, ISBRA 2014, held in Zhangjiajie, China, in June 2014. The 33 revised full papers and 31 one-page abstracts included in this volume were carefully reviewed and selected from 119 submissions. The papers cover a wide range of topics in bioinformatics and computational biology and their applications including the development of experimental or commercial systems.

The subjects of this volume are more relevant than ever, especially in light of the raft of electoral scandals concerning voter profiling. This volume brings together papers that offer conceptual analyses, highlight issues, propose solutions, and discuss practices regarding privacy and data protection. It is one of the results of the twelfth annual International Conference on Computers, Privacy and Data Protection, CPDP, held in Brussels in January 2019. The book explores the following topics: dataset nutrition labels, lifelogging and privacy by design, data protection iconography, the substance and essence of the right to data protection, public registers and data protection, modelling and verification in data protection impact assessments, examination scripts and data protection law in Cameroon, the protection of children's digital rights in the GDPR, the concept of the scope of risk in the GDPR and the ePrivacy Regulation. This interdisciplinary book has been written at a time when the scale and impact of data processing on society - not only on individuals, but also on social systems - is becoming ever starker. It discusses open issues as well as daring and prospective approaches, and will serve as an insightful resource for readers with an interest in computers, privacy and data protection.

This book constitutes the refereed post-conference proceedings of the Second International Conference on Cryptology and Malicious Security, held in Kuala Lumpur, Malaysia, December 1-2, 2016. The 26 revised full papers, two short papers and two keynotes presented were carefully reviewed and selected from 51 submissions. The papers are organized in topical sections on revisiting tradition; different paradigms; cryptofication; malicious cryptography; advances in cryptanalysis; primitives and features; cryptanalysis correspondence.

Trends in Cyber-Physical Multi-Agent Systems. The PAAMS Collection - 15th International Conference, PAAMS 2017 Paradigms in Cryptology - Mycrypt 2016. Malicious and Exploratory Cryptology Semantic Web Technologies

Proceedings

Higher Education: Handbook of Theory and Research

Computational Science and Its Applications - ICCSA 2016

Mathematical Methods in Engineering

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 markets – 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.

A former U.S. Assistant Secretary of State and currently Acting Senior Vice President for Research at The Heritage Foundation, Kim R. Holmes surveys the state of liberalism in America today and finds that it is becoming its opposite—illiberalism—abandoning the precepts of open-mindedness and respect for individual rights, liberties, and the rule of law upon which the country was founded, and becoming instead an intolerant, rigidly dogmatic ideology that abhors dissent and stifles free speech. Tracing the new illiberalism historically to the radical Enlightenment, a movement that rejected the classic liberal ideas of the moderate Enlightenment that were prominent in the American Founding, Holmes argues that today's liberalism has forsaken its American roots, incorporating instead the authoritarian, anti-clerical, and anti-capitalist prejudices of the radical and largely European Left. The result is a closing of the American liberal mind. Where once freedom of speech and expression were sacrosanct, today liberalism employs speech codes, trigger warnings, boycotts, and shaming rituals to stifle freedom of thought, expression, and action. It is no longer appropriate to call it liberalism at all, but illiberalism—a set of ideas in politics, government, and popular culture that increasingly reflects authoritarian and even anti-democratic values, and which is devising new strategies of exclusiveness to eliminate certain ideas and people from the political process. Although illiberalism has always been a temptation for American liberals, lurking in the radical fringes of the Left, it is today the dominant ideology of progressive liberal circles. This makes it a

new danger not only to the once venerable tradition of liberalism, but to the American nation itself, which needs a viable liberal tradition that pursues social and economic equality while respecting individual liberties.

Low Temperature Chemical Nanofabrication: Recent Progress, Challenges and Emerging Technologies offers a thorough and theoretical background to nanoscale fabrication phenomena, also covering important practical applications. It covers the conventional top down and the newly emerging bottom up processing methods. The latter has proven to be feasible for obtaining device quality material and can either be performed using high or low temperature processing. Low temperature (≈ 100 oC), in particular, is becoming increasingly used due to its simplicity and varied applications, with huge benefits for developing new devices and flexible non-conventional substrates. This important resource is ideal for researchers seeking to learn more about the fundamental theories related to nanoscale phenomena and nanofabrication. Provides extensive coverage of nanofabrication techniques, allowing researchers to learn different nanofabrication techniques Explores different applications for low-temperature chemical nanofabrication Cogently explains how low-temperature chemical nanofabrication differs from other nanofabrication techniques, assessing the pros and cons of each

This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. The textbook contains enough material for a year-long course, though many instructors will use it for a single term (one semester or one quarter). As such, three course syllabi with expanded course outlines are now available for download on the book's page on the Springer website. A one-term course would cover material in the core chapters (1-4), supplemented by selections from one or more of the remaining chapters on statistical inference (Ch. 5), Markov chains (Ch. 6), stochastic processes (Ch. 7), and signal processing (Ch. 8—available exclusively online and specifically designed for electrical and computer engineers, making the book suitable for a one-term class on random signals and noise). For a year-long course, core chapters (1-4) are accessible to those who have taken a year of univariate differential and integral calculus; matrix algebra, multivariate calculus, and engineering mathematics are needed for the latter, more advanced chapters. At the heart of the textbook's pedagogy are 1,100 applied exercises, ranging from straightforward to reasonably challenging, roughly 700 exercises in the first four "core" chapters alone—a self-contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand – in R and MATLAB, including code so that students can create simulations. New to this edition • Updated and re-worked Recommended Coverage for instructors, detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints • Extended and revised instructions and solutions to problem sets • Overhaul of Section 7.7 on continuous-time Markov chains • Supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students

Resources in Education

Parallel Computing: Accelerating Computational Science and Engineering (CSE)

Simulation Modeling and Analysis

Digital Transformation: Challenges and Opportunities

Bioinformatics Research and Applications

Understanding Machine Learning

Recent Progress, Challenges and Emerging Technologies

This book constitutes the refereed proceedings of the 13th International Symposium on Neural Networks, ISNN 2016, held in St. Petersburg, Russia in July 2016. The 84 revised full papers presented in this volume were carefully reviewed and selected from 104 submissions. The papers cover many topics of neural network-related research including signal and image processing; dynamical behaviors of recurrent neural networks; intelligent control; clustering, classification, modeling, and forecasting; evolutionary computation; and cognition computation and spiking neural networks.

Published annually since 1985, the Handbook series provides a compendium of thorough and integrative literature reviews on a diverse array of topics of interest to the higher education scholarly and policy communities. Each chapter provides a comprehensive review of research findings on a selected topic, critiques the research literature in terms of its conceptual and methodological rigor and sets forth an agenda for future research intended to advance knowledge on the chosen topic. The Handbook focuses on a comprehensive set of central areas of study in higher education that encompasses the salient dimensions of scholarly and policy inquiries undertaken in the international higher education community. Each annual volume contains chapters on such diverse topics as research on college students and faculty, organization and administration, curriculum and instruction, policy, diversity issues, economics and finance, history and philosophy, community colleges, advances in research methodology and more. The series is fortunate to have attracted annual contributions from distinguished scholars throughout the world.

This book constitutes the thoroughly refereed post-conference proceedings of the 40th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2014, held in Nouan-le-Fuzelier, France, in June 2014. The 32 revised full papers presented were carefully reviewed and selected from 80 submissions. The book also includes two invited papers. The papers cover a wide range of topics in graph theory related to computer science, such as design

and analysis of sequential, parallel, randomized, parameterized and distributed graph and network algorithms; structural graph theory with algorithmic or complexity applications; computational complexity of graph and network problems; graph grammars, graph rewriting systems and graph modeling; graph drawing and layouts; computational geometry; random graphs and models of the web and scale-free networks; and support of these concepts by suitable implementations and applications.

Advances in Bioenergy, Volume Four, is part of a new series that provides both principles and recent developments in various kinds of bioenergy technologies, including feedstock development, conversion technologies, energy and economics, and environmental analysis. Chapters in this new release include Bio-polycarbonate, Advances of gasification for biomass, Cellulase for bioenergy, Butanol production by Clostridium, Bioethanol, an old and new story, and more. The series uniquely provides the fundamentals of these technologies, along with reviews that will be invaluable for students. Written and edited by a world-leading scientist in the area of bioenergy and bioproducts Includes both principles and recent developments within bioenergy technologies Covers the fundamentals of technologies and recent reviews

The Role of Teacher Interpersonal Variables in Students' Academic Engagement, Success, and Motivation

Graph-Theoretic Concepts in Computer Science

Glossary and Sample Exams for DeVore's Probability and Statistics for Engineering and the Sciences, 7th

Assessing Eyewitness Identification

2014 International Conference on Computer, Network

Shaping Images

Advances in Neural Networks – ISNN 2016

Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

This book constitutes the full papers and short monographs developed on the base of the refereed proceedings of the International Conference on Information Technologies: Information and Communication Technologies for Research and Industry (ICIT-2019), held in Saratov, Russia in February 2019. The book brings accepted papers which present new approaches and methods of solving problems in the sphere of control engineering and decision making for the various fields of studies: industry and research, ontology-based data simulation, smart city technologies, theory and use of digital signal processing, cognitive systems, robotics, cybernetics, automation control theory, image recognition technologies, and computer vision. Particular emphasis is laid on modern trends, new approaches, algorithms and methods in selected fields of interest. The presented papers were accepted after careful reviews made by at least three independent reviewers in a double-blind way. The acceptance level was about 60%. The chapters are organized thematically in several areas within the following tracks: • Models, Methods & Approaches in Decision Making Systems • Mathematical Modelling for Industry & Research • Smart City Technologies The conference is focused on development and globalization of information and communication technologies (ICT), methods of control engineering and decision making along with innovations and networking, ICT for sustainable development and technological change, and global challenges. Moreover, the ICIT-2019 served as a discussion area for the actual above-mentioned topics. The editors believe that the readers will find the proceedings interesting and useful for their own research work. The two-volume set LNCS 9242 + 9243 constitutes the proceedings of the 5th International Conference on Intelligence Science and Big Data Engineering, IScIDE 2015, held in Suzhou, China, in June 2015. The total of 126 papers presented in the proceedings was carefully reviewed and selected from 416 submissions. They deal with big data, neural networks, image processing, computer vision, pattern recognition and graphics, object detection, dimensionality reduction and manifold learning, unsupervised learning and clustering, anomaly detection, semi-supervised learning.

This book presents a careful selection of the contributions presented at the Mathematical Methods in Engineering (MME10) International Symposium, held at the Polytechnic Institute of Coimbra- Engineering Institute of Coimbra (IPC/ISEC), Portugal, October 21-24, 2010. The volume discusses recent developments about theoretical and applied mathematics toward the solution of engineering problems, thus covering a wide range of topics, such as: Automatic Control, Autonomous Systems, Computer Science, Dynamical Systems and Control, Electronics, Finance and Economics, Fluid Mechanics and Heat Transfer, Fractional Mathematics, Fractional Transforms and Their Applications, Fuzzy Sets and Systems, Image and Signal Analysis, Image Processing, Mechanics, Mechatronics, Motor Control and Human Movement Analysis, Nonlinear Dynamics, Partial Differential Equations, Robotics, Acoustics, Vibration and Control, and Wavelets.

Research and Applications

Identifying the Culprit

Nanoscience and Nanotechnology in Foods and Beverages

Probability with Applications in Engineering, Science, and Technology

Intelligence Science and Big Data Engineering. Big Data and Machine Learning Techniques

Machine, Manufacturing, Materials and Information Technology II

PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi-Agent Systems. PAAMS is an international yearly tribune to present, to discuss, and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems. This volume presents the papers that have been accepted for the 2017 in the

special sessions: Agent-Based Social Simulation, Modelling and Big-Data Analytics (ABM); Advances on Demand Response and Renewable Energy Sources in Agent Based Smart Grids (ADRESS); Agents and Mobile Devices (AM); Computer vision in Multi-Agent Robotics (RV); Persuasive Technologies (PT); Web and Social Media Mining (WASMM). The volume also includes the papers accepted for publication in the Doctoral Consortium (DCAI, DCAI-DECON, ISAMI, MIS4TEL, PAAMS, PACBB 2017 conferences).

Focusing on research designs for projects that collect both qualitative and quantitative data, this practical book discusses strategies for bringing qualitative and quantitative methods together so that their combined strengths accomplish more than is possible with a single method. The approach is broadly interdisciplinary, reflecting the interest in mixed methods research of social scientists from anthropology, communication, criminal justice, education, evaluation, nursing, organizational behavior, psychology, political science, public administration, public health, sociology, social work, and urban studies. In contrast to an "anything goes" approach or a naïve hope that "two methods are better than one," the author argues that projects using mixed methods must pay even more attention to research design than single method approaches. The book's practical emphasis on mixed methods makes it useful both to active researchers and to students who intend to pursue such a career.

The objective of the 2014 International Conference on Computer, Network Security and Communication Engineering (CNSCE2014) is to provide a platform for all researchers in the field of Computer, Network Security and Communication Engineering to share the most advanced knowledge from both academic and industrial world, to communicate with each other about their experience and most up-to-date research achievements, and to discuss issues and future prospects in these fields. As an international conference mixed with academia and industry, CNSCE2014 provides attendees not only the free exchange of ideas and challenges faced by these two key stakeholders and encourage future collaboration between members of these groups but also a good opportunity to make friends with scholars around the world. As the first session of the international conference on CNSCE, it covers topics related to Computer, Network Security and Communication Engineering. CNSCE2014 has attracted many scholars, researchers and practitioners in these fields from various countries. They take this chance to get together, sharing their latest research achievements with each other. It has also achieved great success by its unique characteristics and strong academic atmosphere as well as its authority.

Collection of selected, peer reviewed papers from the 2014 2nd International Conference on Material Engineering and Manufacturing Engineering (ICMEME 2014), October 25-26, 2014, Beijing, China. The 54 papers are grouped as follows: Chapter 1: Material Science and Chemical Engineering, Chapter 2: Manufacturing and Production Processing, Evaluation and Management Applications, Chapter 3: Energy Saving and Construction Engineering, Chapter 4: Machinery, Automation and Control, Industry Development Applications, Chapter 5: Communication, Signal and Data Processing, Computational Algorithms and Applied Information Technology. Neutrosophic Sets and Systems, vol. 9/2015

Causes and Solutions

16th International Conference, Beijing, China, July 4-7, 2016, Proceedings, Part IV

First International Workshop, BAMBI 2014, Cambridge, MA, USA, September 18, 2014, Revised Selected Papers From Theory to Algorithms

Data Protection and Democracy

How Breakthrough Science Can Revive Economic Growth and the American Dream

"Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Potential applications of nanotechnology in food industry include: encapsulation and delivery of substances in targeted sites, increasing flavor, introducing antibacterial nanoparticles into food, enhancing shelf life, sensing contamination, improved food storage, tracking, tracing, and brand protection. This book provides a basic understanding of the nanoscience and nanotechnology and their applications to different food industry sectors, covering both benefits and drawbacks using nanotechnology in food processing and discussing the development of an international regulatory framework.

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage. The five-volume set LNCS 9786-9790 constitutes the refereed proceedings of the 16th International Conference on Computational Science and Its Applications, ICCSA 2016, held in Beijing, China, in July 2016. The 239 revised full papers and 14 short papers presented at 33 workshops were carefully reviewed and selected from 849 submissions. They are organized in five thematical tracks: computational methods, algorithms and scientific applications; high performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies.

Integrating Qualitative and Quantitative Methods

Control Engineering and Information Systems

Low Temperature Chemical Nanofabrication

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

5th International Conference, IScIDE 2015, Suzhou, China, June 14-16, 2015, Revised Selected Papers, Part II
Mathematical, physical, and engineering sciences
Advances in Bioenergy

This book constitutes the refereed proceedings of the First International Workshop on Bayesian and Graphical Models for Biomedical Imaging, BAMBI 2014, held in Cambridge, MA, USA, in September 2014 as a satellite event of the 17th International Conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2014. The 11 revised full papers presented were carefully reviewed and selected from numerous submissions with a key aspect on probabilistic modeling applied to medical image analysis. The objectives of this workshop compared to other workshops, e.g. machine learning in medical imaging, have a stronger mathematical focus on the foundations of probabilistic modeling and inference. The papers highlight the potential of using Bayesian or random field graphical models for advancing scientific research in biomedical image analysis or for the advancement of modeling and analysis of medical imaging data.

Parallel computing has been the enabling technology of high-end machines for many years. Now, it has finally become the ubiquitous key to the efficient use of any kind of multi-processor computer architecture, from smart phones, tablets, embedded systems and cloud computing up to exascale computers. This book presents the proceedings of ParCo2013 – the latest edition of the biennial International Conference on Parallel Computing – held from 10 to 13 September 2013, in Garching, Germany. The conference focused on several key parallel computing areas. Themes included parallel programming models for multi- and manycore CPUs, GPUs, FPGAs and heterogeneous platforms, the performance engineering processes that must be adapted to efficiently use these new and innovative platforms, novel numerical algorithms and approaches to large-scale simulations of problems in science and engineering. The conference programme also included twelve mini-symposia (including an industry session and a special PhD Symposium), which comprehensively represented and intensified the discussion of current hot topics in high performance and parallel computing. These special sessions covered large-scale supercomputing, novel challenges arising from parallel architectures (multi-/manycore, heterogeneous platforms, FPGAs), multi-level algorithms as well as multi-scale, multi-physics and multi-dimensional problems. It is clear that parallel computing – including the processing of large data sets (‘Big Data’) – will remain a persistent driver of research in all fields of innovative computing, which makes this book relevant to all those with an interest in this field.

Images play a key role for scholarly work in many ways – they facilitate communication and support understanding or make research results look more appealing. At the same time powerful image-editing programs have profoundly changed how image manipulations are perceived today. This book explores how scholars from different domains conceive image manipulation. The study is based on research carried out at the Interdisciplinary Laboratory Image Knowledge Gestaltung at Humboldt University Berlin. Informants from the field of biology, computer science, art history and design explain how they differentiate between appropriate and inappropriate image manipulation. Furthermore these experts report on whether guidelines or practical logics shape their work with images.

The untold story of how America once created the most successful economy the world has ever seen and how we can do it again. The American economy glitters on the outside, but the reality is quite different. Job opportunities and economic growth are increasingly concentrated in a few crowded coastal enclaves. Corporations and investors are disproportionately developing technologies that benefit the wealthiest Americans in the most prosperous areas--and destroying middle class jobs elsewhere. To turn this tide, we must look to a brilliant and all-but-forgotten American success story and embark on a plan that will create the industries of the future--and the jobs that go with them. Beginning in 1940, massive public investment generated breakthroughs in science and technology that first helped win WWII and then created the most successful economy the world has ever seen. Private enterprise then built on these breakthroughs to create new industries--such as radar, jet engines, digital computers, mobile telecommunications, life-saving medicines, and the internet-- that became the catalyst for broader economic growth that generated millions of good jobs. We lifted almost all boats, not just the yachts. Jonathan Gruber and Simon Johnson tell the story of this first American growth engine and provide the blueprint for a second. It's a visionary, pragmatic, sure-to-be controversial plan that will lead to job growth and a new American economy in places now left behind.

How Groupthink and Intolerance Define the Left

Second International Conference, Mycrypt 2016, Kuala Lumpur, Malaysia, December 1-2, 2016, Revised Selected Papers

A Quarterly International Journal in Information Science and Engineering

16th Workshop on e-Business, WeB 2017, Seoul, South Korea, December 10, 2017, Revised Selected Papers

Food Loss and Food Waste

40th International Workshop, WG 2014, Nouan-le-Fuzelier, France, June 25-27, 2014. Revised Selected Papers

Environment Abstracts Annual, 1991

The mission of the International Journal of Educational Reform (IJER) is to keep readers up-to-date with worldwide developments in education reform by providing scholarly information and practical analysis from recognized international authorities. As the only peer-reviewed scholarly publication that combines authors' voices without regard for the political affiliations perspectives, or research methodologies, IJER provides readers with a balanced view of all sides of the political and educational mainstream. To this end, IJER includes, but is not limited to, inquiry based and opinion pieces on developments in such areas as policy, administration, curriculum, instruction, law, and research. IJER should thus be of interest to professional educators with decision-making roles and policymakers at all levels turn since it provides a broad-based conversation between and among policymakers, practitioners, and academicians about reform goals, objectives, and methods for success throughout the world. Readers can call on IJER to learn from an international group of reform implementers by discovering what they can do that has actually worked. IJER can also help readers to understand the pitfalls of current reforms in order to avoid making similar mistakes. Finally, it is the mission of IJER to help readers to learn about key issues in school reform from movers and shakers who help to study and shape the power base directing educational reform in the U.S. and the world.

Global food insecurity is a growing issue. At a time when the world's population is increasing and agricultural production

is challenged by climate change, it is estimated that around a third of the food produced globally is lost or wasted. This book examines the problem of food loss and waste (FLW) and the policies that could be enacted to remedy this fundamental global concern.

The Proceedings of First International Conference on Opto-Electronics and Applied Optics 2014, IEM OPTRONIX 2014 presents the research contributions presented in the conference by researchers from both India and abroad. Contributions from established scientists as well as students are included. The book is organized to enable easy access to various topics of interest. The first part includes the Keynote addresses by Phillip Russell, Max Planck Institute of the Light Sciences, Erlangen, Germany and Lorenzo Pavesi, University of Trento, Italy. The second part focuses on the Plenary Talks given by eminent scientists, namely, Azizur Rahman, City University London, London; Bishnu Pal, President, The Optical Society of India; Kamakhya Ghatak, National Institute of Technology, Agartala; Kehar Singh, Former Professor, India Institute of Technology Delhi; Mourad Zghal, SUPCOM, University of Carthage, Tunisia; Partha Roy Chaudhuri, IIT Kharagpur; S K. Bhadra, CSIR-Central Glass and Ceramic Research Institute, Kolkata; Sanjib Chatterjee, Raja Ramanna Centre for Advanced Technology, Indore; Takeo Sasaki, Tokyo University, Japan; Lakshminarayan Hazra, Emeritus Professor, University of Calcutta, Kolkata; Shyam Akashe, ITM University, Gwalior and Vasudevan Lakshminarayanan, University of Waterloo, Canada. The subsequent parts focus on topic-wise contributory papers in Application of Solar Energy; Diffraction Tomography; E.M. Radiation Theory and Antenna; Fibre Optics and Devices; Photonics for Space Applications; Micro-Electronics and VLSI; Nano-Photonics, Bio-Photonics and Bio-Medical Optics; Non-linear Phenomena and Chaos; Optical and Digital Data and Image Processing; Optical Communications and Networks; Optical Design; Opto-Electronic Devices; Opto-Electronic Materials and Quantum Optics and Information Processing.

Eyewitnesses play an important role in criminal cases when they can identify culprits. Estimates suggest that tens of thousands of eyewitnesses make identifications in criminal investigations each year. Research on factors that affect the accuracy of eyewitness identification procedures has given us an increasingly clear picture of how identifications are made, and more importantly, an improved understanding of the principled limits on vision and memory that can lead to failure of identification. Factors such as viewing conditions, duress, elevated emotions, and biases influence the visual perception experience. Perceptual experiences are stored by a system of memory that is highly malleable and continuously evolving, neither retaining nor divulging content in an informational vacuum. As such, the fidelity of our memories to actual events may be compromised by many factors at all stages of processing, from encoding to storage and retrieval. Unknown to the individual, memories are forgotten, reconstructed, updated, and distorted. Complicating the process further, policies governing law enforcement procedures for conducting and recording identifications are not standard, and policies and practices to address the issue of misidentification vary widely. These limitations can produce mistaken identifications with significant consequences. What can we do to make certain that eyewitness identification convicts the guilty and exonerates the innocent? Identifying the Culprit makes the case that better data collection and research on eyewitness identification, new law enforcement training protocols, standardized procedures for administering line-ups, and improvements in the handling of eyewitness identification in court can increase the chances that accurate identifications are made. This report explains the science that has emerged during the past 30 years on eyewitness identifications and identifies best practices in eyewitness procedures for the law enforcement community and in the presentation of eyewitness evidence in the courtroom. In order to continue the advancement of eyewitness identification research, the report recommends a focused research agenda. Identifying the Culprit will be an essential resource to assist the law enforcement and legal communities as they seek to understand the value and the limitations of eyewitness identification and make improvements to procedures.

Recent Research in Control Engineering and Decision Making

Scholarly Perspectives on Image Manipulation

The Closing of the Liberal Mind

10th International Symposium, ISBRA 2014, Zhangjiajie, China, June 28-30, 2014, Proceedings

Jump-Starting America

13th International Symposium on Neural Networks, ISNN 2016, St. Petersburg, Russia, July 6-8, 2016, Proceedings

Bayesian and Graphical Models for Biomedical Imaging

This book constitutes revised selected papers from the 16th Workshop on e-Business, WeB 2017, which took place in South Korea, in December 2017. The purpose of WeB is to provide an open forum for e-Business researchers and practitioners world-wide, to share topical research findings, explore novel ideas, discuss success stories and lessons learned, map out major challenges, and collectively chart future directions for e-Business. The WeB 2017 theme was "Digital transformation: challenges and opportunities". The 11 papers presented in this volume were carefully reviewed and selected from 43 submissions. These are original research articles with a broad coverage of behavioral issues on consumers, businesses, industries and governments, ranging from technical to strategic issues.

Since the publication of the first edition in 1982, the goal of Simulation Modeling and Analysis has always been to provide a comprehensive, state-of-the-art, and technically correct treatment of all important aspects of a simulation study. The book strives to make this material understandable by the use of intuition and numerous figures, examples, and problems. The book is equally well suited for use in university courses, simulation practice, and self study. The book is widely regarded as the "bible" of simulation and now has more than 100,000 copies in print. The book can serve as the primary text for a number of courses; for example: *A first course in simulation at the junior, senior, or beginning-graduate-student level in engineering, manufacturing, business, or computer science (Chaps. 1 through 4, and parts of Chaps. 5 through 9). At the end of the course, the students will be prepared to carry out complete and effective simulation studies, and to take advanced

courses. *A second course in simulation for graduate students in any of the above disciplines (most of Chaps. 5 through 9). After completing this course, the student should be familiar with the more advanced methodological issues involved in simulation study, and should be prepared to understand and conduct simulation research. *An introduction to simulation as part of a general course in operations research or management science (part of Chaps. 1, 3, 5, 6, and 9).

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Advances in Optical Science and Engineering

Proceedings of the First International Conference, IEM OPTRONIX 2014

Data Protection and Privacy

A Pragmatic Approach

Neutrosophic Sets and Systems, vol. 3/2014

Fundamentals of Nuclear Science and Engineering Second Edition