Engineering Science N3 November 2013

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Technolife 2035 - Elina Hiltunen 2015-10-05
Technology constantly evolves, usually slowly and insidiously – but always just as surely. Things that are currently being developed in laboratories will be in the public domain as different products and applications perhaps as soon as in a few years' time, and as more refined versions in around ten years' time. This book deals with the future of technology, and explores the influence new technologies may have on life within the next twenty years. It is divided into three parts, the first of which discusses technological development and the forces and counter-forces related to it. This section also reviews how advances in technology are forecasted, and what kinds of parties make these predictions, and provides examples of forecasts for the next couple of decades. The second part of the book investigates the various areas of technology and their related trends. This section discusses current technological studies which may have concrete impacts in everyday life in a few decades, such as those in the fields of energy, transportation, biotechnology, materials, ICT, robotics, medical technology and space technology. The third part of the book introduces the authors' visions of how technology may develop by 2035, and presents three different scenarios, or future worlds. These will demonstrate the possible directions in which technological development can take us. The scenarios are introduced through two main characters, Romeo and Juliet (adapted from Shakespeare's play) in the year 2035. Even though technology is constantly changing, the writers believe that, even years into the future, the significance of human relations will remain the greatest influence on human life.
Innovation, Communication and Engineering - Teen-Hang Meen 2013-10-08
This volume represents the proceedings of the 2013 International Conference on Innovation, Communication and Engineering (ICICE 2013). This conference was organized by the China University of Petroleum (Huadong/East China) and the Taiwanese Institute of Knowledge Innovation, and was held in Qingdao, Shandong, P.R. China, October 26 - November 1, 2013. The conference received 653 submitted papers from 10 countries, of which 214 papers were selected by the committees to be presented at ICICE 2013. The conference provided a unified communication platform for researchers in a wide range of fields from information technology, communication science, and applied mathematics, to computer science, advanced material science, design and engineering. This volume enables interdisciplinary collaboration between science and engineering technologists in academia and industry as well as networking internationally. Consists of a book of abstracts (260 pp.) and a USB flash card with full papers (912 pp.).
3rd International Conference on Nanotechnologies and Biomedical Engineering - Victor Sontea 2015-09-23
This volume presents the proceedings of the 3rd International Conference on Nanotechnologies and Biomedical Engineering which was held on September 23-26, 2015 in Chisinau, Republic of Moldova. ICNBME-2015 continues the series of International Conferences in the field of nanotechnologies and biomedical engineering. It aims at bringing together scientists and engineers dealing with fundamental and applied research for reporting on the latest theoretical developments and applications involved in the fields. Topics include Nanotechnologies and nanomaterials Plasmonics and metamaterials Bio-micro/nano technologies Biomaterials Biosensors and sensors systems Biomedical instrumentation Biomedical signal processing Biomedical imaging and image processing Molecular, cellular and tissue engineering Clinical engineering, health technology management and assessment; Health informatics, e-health and telemedicine Biomedical engineering education Nuclear and radiation safety and security Innovations and technology transfer
Computing Handbook, Third Edition - Teofilo Gonzalez 2014-05-07
Computing Handbook, Third Edition: Computer Science and Software

Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.
The International Conference on Health Informatics - Yuan-Ting Zhang 2013-11-20
This volume presents the proceedings of the International Conference on Health Informatics (ICHI). The conference was a new special topic conference initiative by the International Federation of Medical and Biological Engineering (IFMBE), held in Vilamoura, Portugal on 7-9 November, 2013. The main theme of the ICHI2013 was "Integrating Information and Communication Technologies with Biomedicine for Global Health". The proceedings offer a unique forum to examine enabling technologies of sensors, devices and systems that optimize the acquisition, transmission, processing, storage, retrieval of biomedical and health information as well as to report novel clinical applications of health information systems and the deployment of m-Health, e-Health, u-Health, p-Health and Telemedicine.
Probability & Statistics for Engineers & Scientists - Ronald E. Walpole 2016-03-09
NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value-this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. For junior/senior undergraduates taking probability and statistics as applied to engineering, science, or computer science. This classic text provides a rigorous introduction to basic probability theory and statistical inference, with a unique balance between theory and methodology. Interesting, relevant applications use real data from actual studies, showing how the concepts and methods can be used to solve problems in the field. This revision focuses on improved clarity and deeper understanding. This latest edition is also available in as an enhanced Pearson eText. This exciting new version features an embedded version of StatCrunch, allowing students to analyze data sets while reading the book. Also available with MyStatLab MyStatLab(tm) is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. Note: You are purchasing a standalone product; MyLab(tm) & Mastering(tm) does not come packaged with this content. Students, if interested in purchasing this title with MyLab & Mastering, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson

representative for more information.

Food Loss and Food Waste - Michael Blakeney

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.

Regulation of Synthetic Biology - Alison McLennan 2018-04-27

This book explores the interplay between regulation and emerging technologies in the context of synthetic biology, a developing field that promises great benefits, and has already yielded fuels and medicines made with designer micro-organisms. For all its promise, however, it also poses various risks. Investigating the distinctiveness of synthetic biology and the regulatory issues that arise, Alison McLennan questions whether synthetic biology can be regulated within existing structures or whether new mechanisms are needed.

Graph-Theoretic Concepts in Computer Science - Andreas Brandstädt 2013-11-12

This book constitutes the thoroughly refereed proceedings of the 39th International Workshop on Graph Theoretic Concepts in Computer Science, WG 2013, held in Lübeck, Germany, in June 2013. The 34 revised full papers presented were carefully reviewed and selected from 61 submissions. The book also includes two abstracts. The papers cover a wide range of topics in graph theory related to computer science, such as structural graph theory with algorithmic or complexity applications; design and analysis of sequential, parallel, randomized, parameterized and distributed graph and network algorithms; computational complexity of graph and network problems; computational geometry; graph grammars, graph rewriting systems and graph modeling; graph drawing and layouts; random graphs and models of the web and scale-free networks; and support of these concepts by suitable implementations and applications.

Computational Methods and Experimental Measurements XVII - G.M. Carlomagno 2015-05-05

Containing papers presented at the seventeenth in a series of biennial meetings organised by the Wessex Institute and first held in 1984, this book includes the latest research from scientists who perform experiments, researchers who develop computer codes, and those who carry out measurements on prototypes and whose work may interact. Progress in the engineering sciences is dependent on the orderly and concurrent development of all three fields. Continuous improvement in computer efficiency, coupled with diminishing costs and rapid development of numerical procedures have generated an ever-increasing expansion of computational simulations that permeate all fields of science and technology. As these procedures continue to grow in magnitude and complexity, it is essential to be certain of their reliability, i.e. to validate their results. This can be achieved by performing dedicated and accurate experiments. At the same time, current experimental techniques have become more complex and sophisticated so that they require the exploitation of computers, both for running experiments as well as acquiring and processing the resulting data. The papers contained in the book address advances in the interaction between these three areas. They cover such topics as: Computational and Experimental Methods; Fluid Flow; Structural and Stress Analysis; Materials Characterisation; Heat Transfer and Thermal Processes; Advances in Computational Methods; Automotive Applications; Applications in Industry; Process Simulations; Environmental Modelling and Applications; Computer Modelling; Validation of Computer Modelling; Computation in Measurements; Data Processing of Experiments; Virtual Testing and Verification; Simulation and Forecasting; Measurements in Engineering.

The Dragon Takes Flight - Derek A. Levine 2015-06-24

The Dragon Takes Flight: China's Aviation Policy, Achievements, and International Implications analyzes China's journey toward the development of its C-919 large passenger aircraft and how Boeing and Airbus can meet the challenges they may face from its success.

Materials Science and Engineering - Abbas Hamrang 2018-10-03

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

Neural Information Processing - Minho Lee 2013-10-29

The three volume set LNCS 8226, LNCS 8227, and LNCS 8228 constitutes the proceedings of the 20th International Conference on Neural Information Processing, ICONIP 2013, held in Daegu, Korea, in November 2013. The 180 full and 75 poster papers presented together with 4 extended abstracts were carefully reviewed and selected from numerous submissions. These papers cover all major topics of theoretical research, empirical study and applications of neural information processing research. The specific topics covered are as follows: cognitive science and artificial intelligence; learning theory, algorithms and architectures; computational neuroscience and brain imaging; vision, speech and signal processing; control, robotics and hardware technologies and novel approaches and applications.

Euro-Par 2013: Parallel Processing - Felix Wolf 2013-07-20

This book constitutes the refereed proceedings of the 19th International Conference on Parallel and Distributed Computing, Euro-Par 2013, held in Aachen, Germany, in August 2013. The 70 revised full papers presented were carefully reviewed and selected from 261 submissions. The papers are organized in 16 topical sections: support tools and environments; performance prediction and evaluation; scheduling and load balancing; high-performance architectures and compilers; parallel and distributed data management; grid, cluster and cloud computing; peer-to-peer computing; distributed systems and algorithms; parallel and distributed programming; parallel numerical algorithms; multicore and manycore programming; theory and algorithms for parallel computation; high performance networks and communication; high performance and scientific applications; GPU and accelerator computing; and extreme-scale computing.

Translational Medicine - Robert A. Meyers 2016-05-04

The first complete overview of progress in the field. The two volumes contain selected articles from the prestigious online Encyclopedia of Molecular Cell Biology and Molecular Medicine, fully updated and enriched with numerous new contributions from many eminent scientists. Divided into three parts, the first gives a thorough introduction to cancer biology, while Part Two covers therapeutic approaches for all major forms of cancer, and the third part deals with cancer diagnostics. The result is a one-stop resource for advanced students, postdoctoral researchers and start-up companies.

Advances in Neural Networks – ISNN 2016 - Long Cheng 2016-07-01

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.

The Closing of the Liberal Mind - Kim R. Holmes 2017-12-12

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.

Advanced Methodologies and Technologies in Business Operations and Management - Khosrow-Pour, D.B.A., Mehdi 2018-09-14
Businesses consistently work on new projects, products, and workflows to remain competitive and successful in the modern business environment. To remain zealous, businesses must employ the most effective methods and tools in human resources, project management, and overall business plan execution as competitors work to succeed as well. Advanced Methodologies and Technologies in Business Operations and Management provides emerging research on business tools such as employee engagement, payout policies, and financial investing to promote operational success. While highlighting the challenges facing modern organizations, readers will learn how corporate social responsibility and utilizing artificial intelligence improve a company's culture and management. This book is an ideal resource for executives and managers, researchers, accountants, and financial investors seeking current research on business operations and management.

Creativity in Computing and DataFlow SuperComputing - 2017-01-02
Creativity in Computing and DataFlow Supercomputing, the latest release in the Advances in Computers series published since 1960, presents detailed coverage of innovations in computer hardware, software, theory, design, and applications. In addition, it provides contributors with a medium in which they can explore topics in greater depth and breadth than journal articles typically allow. As a result, many articles have become standard references that continue to be of significant, lasting value in this rapidly expanding field. Provides in-depth surveys and tutorials on new computer technology Presents well-known authors and researchers in the field Includes extensive bibliographies with most chapters Contains extensive chapter coverage that is devoted to single themes or subfields of computer science

Revolutionizing Enterprise Interoperability through Scientific Foundations - Charalabidis, Yannis 2014-02-28
"This book offers information on the latest advancements and research for Enterprise Interoperability knowledge as well as core concepts, theories, and future directions"--

Blended Learning in Engineering Education - Ataur Rahman 2018-11-06
Blended Learning combines the conventional face-to-face course delivery with an online component. The synergetic effect of the two modalities has proved to be of superior didactic value to each modality on its own. The highly improved interaction it offers to students, as well as direct accessibility to the lecturer, adds to the hitherto unparalleled learning outcomes. "Blended Learning in Engineering Education: Recent Developments in Curriculum, Assessment and Practice" highlights current trends in Engineering Education involving face-to-face and online curriculum delivery. This book will be especially useful to lecturers and postgraduate/undergraduate students as well as university administrators who would like to not only get an up-to-date overview of contemporary developments in this field, but also help enhance academic performance at all levels.

Knowledge Science, Engineering and Management - Mingzheng Wang 2013-07-03
This book constitutes the refereed proceedings of the 6 th International Conference on Knowledge Science, Engineering and Management, KSEM 2013, held in Dalian City, China, in August 2013. The 50 revised papers (33 regular papers, 18 short papers, and keynote and invited talks) were carefully reviewed and selected from various submissions.

Perspectives in Performing Arts Medicine Practice - Sang-Hie Lee 2020-03-27
Performing Arts Medicine (PAM) is a growing area of specialization within the performing arts field, which addresses the multi-faceted health and wellness of performing artists. This sub-discipline within performing arts is interdisciplinary in nature, involving the expertise of performing arts educators and researchers, physicians and other health professionals. This first of its kind text appeals to a very wide audience that includes performing arts clinical practitioners and health science researchers as well as performing arts pedagogues and performing arts students. The first part of the text gives the reader an overview of the field and discusses over-arching themes and issues in PAM. Part two presents an array of music and dance research involving primarily case studies that address significant issues of concern for performing artists and have implications for pedagogical practice. Part three provides research-based perspectives derived from professionals sharing their in-practice experiences. Finally, part four describes useful PAM models of implementation supporting the needs of performing artists in different settings. Written by experts in the field, Perspectives in Performing Arts

Medicine Practice is a valuable resource for performing arts physicians, educators and researchers.

Shaping Images - Thorsten Stephan Beck 2016-09-12
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.

Reliability Analysis and Asset Management of Engineering Systems - Gilberto Francisco Martha de Souza 2021-09-24
Reliability Analysis and Asset Management of Engineering Systems explains methods that can be used to evaluate reliability and availability of complex systems, including simulation-based methods. The increasing digitization of mechanical processes driven by Industry 4.0 increases the interaction between machines and monitoring and control systems, leading to increases in system complexity. For those systems the reliability and availability analyses are increasingly challenging, as the interaction between machines has become more complex, and the analysis of the flexibility of the production systems to respond to machinery failure may require advanced simulation techniques. This book fills a gap on how to deal with such complex systems by linking the concepts of systems reliability and asset management, and then making these solutions more accessible to industry by explaining the availability analysis of complex systems based on simulation methods that emphasise Petri nets. Explains how to use a monitoring database to perform important tasks including an update of complex systems reliability Shows how to diagnose probable machinery-based causes of system performance degradation by using a monitoring database and reliability estimates in an integrated way Describes practical techniques for the application of AI and machine learning methods to fault detection and diagnosis problems

Rational Design of Solar Cells for Efficient Solar Energy Conversion - Alagarsamy Pandikumar 2018-09-05
An interdisciplinary guide to the newest solar cell technology for efficient renewable energy Rational Design of Solar Cells for Efficient Solar Energy Conversion explores the development of the most recent solar technology and materials used to manufacture solar cells in order to achieve higher solar energy conversion efficiency. The text offers an interdisciplinary approach and combines information on dye-sensitized solar cells, organic solar cells, polymer solar cells, perovskite solar cells, and quantum dot solar cells. The text contains contributions from noted experts in the fields of chemistry, physics, materials science, and engineering. The authors review the development of components such as photoanodes, sensitizers, electrolytes, and photocathodes for high performance dye-sensitized solar cells. In addition, the text puts the focus on the design of material assemblies to achieve higher solar energy conversion. This important resource: Offers a comprehensive review of recent developments in solar cell technology Includes information on a variety of solar cell materials and devices, focusing on dye-sensitized solar cells Contains a thorough approach beginning with the fundamental material characterization and concluding with real-world device application. Presents content from researchers in multiple fields of study such as physicists, engineers, and material scientists Written for researchers, scientists, and engineers in university and industry laboratories, Rational Design of Solar Cells for Efficient Solar Energy Conversion offers a comprehensive review of the newest developments and applications of solar cells with contributions from a range of experts in various disciplines.

Intelligent Computing, Networking, and Informatics - Durga Prasad Mohapatra 2013-12-17
This book is composed of the Proceedings of the International Conference on Advanced Computing, Networking, and Informatics (ICACNI 2013), held at Central Institute of Technology, Raipur, Chhattisgarh, India during June 14–16, 2013. The book records current research articles in the domain of computing, networking, and informatics. The book presents original research articles, case-studies, as well as review articles in the said field of study with emphasis on their implementation and practical application. Researchers, academicians,

practitioners, and industry policy makers around the globe have contributed towards formation of this book with their valuable research submissions.

Linguistic Modelling of Scenarios - Janos Korn 2013-12-01
Linguistic Modelling of Scenarios proposes a paradigm change from the 'systemic VIEW' to 'systems SCIENCE', so as to extend the methodology of conventional science of physics into the domains hitherto beyond the reach of this kind of treatment. The book: I. Identifies the problematic issues in current approaches to the 'systemic or structural view' of parts of the world as opposed to the 'quantitative/qualitative views' of conventional science of physics and the arts whereby introducing the 'third culture'. II. Locates the position of the structural view in the context of 'human intellectual endeavour'. III. Discusses the fundamental questions raised by modelling aspects of human behaviour. IV. Introduces the basic ideas and the symbolism of linguistic modelling which are then applied to turning descriptions of scenarios as a story or narrative into reasoning schemes. V. Describes a methodology of 'problem solving' of which design thinking and the operation of purposive systems are seen as essential ingredients. Problem solving is a universal activity of living in particular human beings through innovation, invention and creativity. Lack of this activity leads to death! Problem solving is regarded as pivotal point which may propel the spread of the modified structural view into social, technical, cultural and educational awareness. VI. Shows the location of aspects of conventional science within the scheme of systems science whereby achieving a 'continuity of the scientific endeavour'. VII. Outlines a teaching scheme for 'linguistic modelling'. Janos Korn explains how a view can be converted into a science which can lead to a possibility of 'organised speculation' or simulation of behaviour, exploring the effects of variation of parameters on performance, and the occurrence of outcomes of operations, beneficial or not, of dynamic structures. Static and dynamic structures are expressed in more rigorous and computable terms so that the results of analysis and design of human activity scenarios could be exposed to at least thought experiments. Linguistic Modelling of Scenarios is an informative read for any professionals, teachers and students of engineering, social science, management, business and production.

ECDG 2019 19th European Conference on Digital Government - Asst. Prof. Dr. Tuğberk Kaya 2019-10-24

Collections Vol 9 N3 - Collections 2013-09-25
"Collections: A Journal for Museum and Archives Professionals" is a multi-disciplinary peer-reviewed journal dedicated to the discussion of all aspects of handling, preserving, researching, and organizing collections. Curators, archivists, collections managers, preparators, registrars, educators, students, and others contribute.

Gears in Design, Production and Education - Natalya Barmina
This book is the fourth volume in the series devoted to gear engineering and computer-aided design, production, testing and education. It comprises fundamental and applied research contributions by scientists and gear experts from all the world and covers recent developments and historical achievements in various spheres of mechanical engineering related to different kinds of gears, transmissions, and drive systems. It gathers contributions describing the advanced approaches to research, design, testing and production of practically all common and new kinds of gears for a vast number of advanced applications. Special attention is paid to issues of higher education in the field of gears. The book is intended as a tribute to professor Veniamin Goldfarb (1941-2019), one of the world-known leaders in the field of gear research, education and production, who contributed much to the active international cooperation of gear experts and to promotion of MMS science. The introductory chapter of this book relates his research to major developments in the field of mechanisms and machine science and outlines important contributions that he made within the period of 1964-2019.

Practical Applications of Intelligent Systems - Zhenkun Wen 2014-07-18
"Practical Applications of Intelligent Systems" presents selected papers from the 2013 International Conference on Intelligent Systems and Knowledge Engineering (ISKE2013). The aim of this conference is to bring together experts from different expertise areas to discuss the state-of-the-art in Intelligent Systems and Knowledge Engineering, and to present new research results and perspectives on future development. The topics in this volume include, but are not limited to: Intelligent Game, Intelligent Multimedia, Business Intelligence, Intelligent Bioinformatics Systems, Intelligent Healthcare Systems, User Interfaces and Human Computer Interaction, Knowledge-based Software

Engineering, Social Issues of Knowledge Engineering, etc. The proceedings are benefit for both researchers and practitioners who want to learn more about the current practice, experience and promising new ideas in the broad area of intelligent systems and knowledge engineering. Dr. Zhenkun Wen is a Professor at the College of Computer and Software Engineering, Shenzhen University, China. Dr. Tianrui Li is a Professor at the School of Information Science and Technology, Southwest Jiaotong University, Xi'an, China.

Intelligence Science and Big Data Engineering - Changyin Sun 2013-11-18
This book constitutes the thoroughly refereed post-conference proceedings of the 4th International Conference on Intelligence Science and Big Data Engineering, IScIDE 2013, held in Beijing, China, in July/August 2013. The 111 papers presented were carefully peer-reviewed and selected from 390 submissions. Topics covered include information theoretic and Bayesian approaches; probabilistic graphical models; pattern recognition and computer vision; signal processing and image processing; machine learning and computational intelligence; neural networks and neuro-informatics; statistical inference and uncertainty reasoning; bioinformatics and computational biology and speech recognition and natural language processing.

Current Index to Journals in Education - 2001

Electronic Engineering and Information Science - Dongxing Wang 2015-06-11
The International Conference of Electronic Engineering and Information Science 2015 (ICEEIS 2015) was held on January 17-18, 2015, Harbin, China. This proceedings volume assembles papers from various researchers, engineers and educators engaged in the fields of electronic engineering and information science.The papers in this proceedings *Proceedings of the International Conference on Information Engineering, Management and Security 2015* - Vignesh Ramakrishnan 2015-08-13
ICIEMS 2015 is the conference aim is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Engineering Technology, Industrial Engineering, Application Level Security and Management Science. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

Secret History - Nick Redfern 2015-04-20
History is written by the winners—and the powerful—but how much of it is fiction? And who is really in control today? From the dawn of civilization to the 21st century, from ancient aliens to the New World Order, Secret History: Conspiracies from Ancient Aliens to the New World Order examines, explores, and uncovers the hidden, overlooked, and buried history of mankind. The book moves from biblical, Egyptian, Mayan, Greek, and early mysteries of antiquity to the clandestine doings of the Nazis and the Masons and assassination plots of the more recent past to the surveillance, monitoring, mind-control, and secret schemes of today. Researcher Nick Redfern investigates the stories, mythologies, lore behind incredible events and clandestine groups of yesterday and today. More than 60 entries dig deep into the manipulation of events by influential groups, including … • Historical riddles—alien visitations, space gods, and human–alien crossbreeding. • Government cover ups—mind control, murders, scientists, and secret agents. • Powerful groups and intended consequences—9-11, new world order, bird-flu, and chemtrails. Tracing the chilling and lasting effects of conspiracies, cabals, and plots, Secret History: Conspiracies from Ancient Aliens to the New World Order exposes their deep reach in shaping today's world.

Advances in Neural Networks- ISNN 2013 - Chengan Guo 2013-07-04
The two-volume set LNCS 7951 and 7952 constitutes the refereed proceedings of the 10th International Symposium on Neural Networks, ISNN 2013, held in Dalian, China, in July 2013. The 157 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in following topics: computational neuroscience, cognitive science, neural network models, learning algorithms, stability and convergence analysis, kernel methods, large margin methods and SVM, optimization algorithms, varational methods, control, robotics, bioinformatics and biomedical engineering, brain-like systems and brain-computer interfaces, data mining and knowledge discovery and other applications of neural networks.

A Dictionary of Mechanical Engineering - Tony Atkins 2013-04-25
A Dictionary of Mechanical Engineering is one of the latest additions to the market leading Oxford Paperback Reference series. In over 8,500

clear and concise A to Z entries, it provides definitions and explanations for mechanical engineering terms in the core areas of design, stress analysis, dynamics and vibrations, thermodynamics, and fluid mechanics. Topics covered include heat transfer, combustion, control, lubrication, robotics, instrumentation, and measurement. Where relevant, the dictionary also touches on related subject areas such as acoustics, bioengineering, chemical engineering, civil engineering, aeronautical engineering, environmental engineering, and materials science. Useful entry-level web links are listed and regularly updated on a dedicated companion website to expand the coverage of the dictionary. Cross-referenced and including many line drawings, this excellent new volume is the most comprehensive and authoritative dictionary of its kind. It is an essential reference for students of mechanical engineering and for anyone with an interest in the subject.

Natural Language Processing and Chinese Computing - Xuanjing Huang 2018-01-03
This book constitutes the refereed proceedings of the 6th CCF International Conference on Natural Language Processing, NLPCC 2017, held in Dalian, China, in November 2017. The 47 full papers and 39 short papers presented were carefully reviewed and selected from 252 submissions. The papers are organized around the following topics: IR/search/bot; knowledge graph/IE/QA; machine learning; machine translation; NLP applications; NLP fundamentals; social networks; and text mining.