

Physical Sciences Mst Paper 2014

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Advances in Swarm Intelligence Ying Tan

2014-09-03 This book and its companion volume, LNCS vol. 8794 and 8795 constitute the proceedings of the 5th International Conference on Swarm Intelligence, ICSI 2014, held in Hefei, China in October 2014. The 107 revised full papers presented were carefully reviewed and selected from 198 submissions. The papers are organized in 18 cohesive sections, 3 special sessions and one competitive session covering all major topics of swarm intelligence research and development such as novel swarm-based search methods; novel optimization algorithm; particle swarm optimization; ant colony optimization for travelling salesman problem; artificial bee colony algorithms; artificial immune system; evolutionary algorithms; neural networks and fuzzy methods; hybrid methods; multi-objective optimization;

multi-agent systems; evolutionary clustering algorithms; classification methods; GPU-based methods; scheduling and path planning; wireless sensor networks; power system optimization; swarm intelligence in image and video processing; applications of swarm intelligence to management problems; swarm intelligence for real-world application.

Handbook of Quality of Life in African Societies

Irma Eloff 2019-08-09 This handbook reflects on quality-of-life in societies on the continent of Africa. It provides a widely interdisciplinary text with insights on quality-of-life from a variety of scientific perspectives. The handbook is structured into sections covering themes of social context, culture and community; the environment and technology; health; education; and family. It is aimed at scholars who are working towards sustainable development at the intersections of

multiple scientific fields and it provides measures of both objective and subjective quality-of-life. The scholarly contributions in the text are based on original research and it spans fields of research such as cultures of positivity, wellbeing, literacy and multilingualism, digital and mobile technologies, economic growth, food and nutrition, health promotion, community development, teacher education and family life. Some chapters take a broad approach and report on research findings involving thousands, and in one case millions, of participants. Other chapters zoom in and illustrate the importance of specificity in quality-of-life studies. Collectively, the handbook illuminates the particularity of quality-of-life in Africa, the unique contextual challenges and the resourcefulness with which challenges are being mediated. This handbook provides empirically grounded conceptualizations about life in Africa that also encapsulate the dynamic, ingenious ways in which we, as Africans, enhance our quality-of-life.

The Fourth Industrial Revolution Klaus Schwab

2017-01-03 The founder and executive chairman of the World Economic Forum on how the impending technological revolution will change our lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history. Characterized by new technologies fusing the physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and

industries - and it will do so at an unprecedented rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair; the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In *The Fourth Industrial Revolution*, Schwab outlines the key technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be done to shape a better future for all.

Human Centered Computing Danijela Milošević

2020-01-20 This book constitutes thoroughly reviewed, revised and selected papers from the 5th International Conference on Human Centered Computing, HCC 2019, held in **Pa**ak, Serbia, in August 2019. The 48 full and 23 short papers presented in this volume were carefully reviewed and selected from a total of 133 submissions. The papers focus on deep learning and its applications on a variety of real-life problems, ranging from image/video analysis, to human-computer interaction, and to logistics and supply chain management.

Iron Will Markus Kröger 2020-11-23 *Iron Will* lays bare the role of extractivist policies and efforts to resist these policies through a deep ethnographic exploration of globally important iron ore mining in Brazil and India. Markus Kröger addresses

resistance strategies to extractivism and tracks their success, or lack thereof, through a comparison of peaceful and armed resource conflicts, explaining how different means of resistance arise. Using the distinctly different contexts and political systems of Brazil and India highlights the importance of local context for resistance. For example, if there is an armed conflict at a planned mining site, how does this influence the possibility to use peaceful resistance strategies? To answer such questions, Kröger assesses the inter-relations of contentious, electoral, institutional, judicial, and private politics that surround conflicts and interactions, offering a new theoretical framework of “investment politics” that can be applied generally by scholars and students of social movements, environmental studies, and political economy, and even more broadly in Social Scientific and Environmental Policy research. By drawing on a detailed field research and other sources, this book explains precisely which resistance strategies are able to influence both political and economic outcomes. Kröger expands the focus of traditionally Latin American extractivism research to other contexts such as India and the growing extractivist movement in the Global North. In addition, as the book is a multi-sited political ethnography, it will appeal to sociologists, political scientists, anthropologists, geographers, and others using field research among other methods to

understand globalization and global political interactions. It is the most comprehensive book on the political economy and ecology of iron ore and steel. This is astonishing, given the fact that iron ore is the second-most important commodity in the world after oil.

Learning and Intelligent Optimization Panos M. Pardalos 2014-07-31 This book constitutes the thoroughly refereed post-conference proceedings of the 8th International Conference on Learning and Optimization, LION 8, which was held in Gainesville, FL, USA, in February 2014. The 33 contributions presented were carefully reviewed and selected for inclusion in this book. A large variety of topics are covered, such as algorithm configuration; multiobjective optimization; metaheuristics; graphs and networks; logistics and transportation; and biomedical applications.

Scientific and Technical Aerospace Reports 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Physics James S. Walker 2016-01-29 Intended for algebra-based introductory physics courses. An accessible, problem-solving approach to physics, grounded in real-world applications James Walker's Physics provides students with a solid conceptual understanding of physics that can be expressed quantitatively and applied to

the world around them. Instructors and students praise Walker's Physics for its friendly voice, the author's talent for making complex concepts understandable, an inviting art program, and the range of excellent homework problems and example-types that provide guidance with problem solving. The Fifth Edition includes new "just-in-time" learning aids such as "Big Ideas" to quickly orient students to the overarching principles of each chapter, new Real-World Physics and Biological applications, and a wealth of problem-solving support features to coach students through the process of applying logic and reasoning to problem solving. The Fifth Edition is accompanied by MasteringPhysics, the leading online homework, tutorial, and assessment system. Also Available with MasteringPhysics MasteringPhysics from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content. Instructors ensure students arrive ready to learn by assigning educationally effective content before class and encourage critical thinking and retention with in-class resources such as Learning Catalytics. Students can further master concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded

assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each student and making learning more personal than ever--before, during, and after class. Note: You are purchasing a standalone product; MasteringPhysics does not come packaged with this content. Students, if interested in purchasing this title with MasteringPhysics, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MasteringPhysics, search for: 0321993764 / 9780321993762 Physics Plus MasteringPhysics with eText -- Access Card Package, 5/e Package consists of: 0321976444 / 9780321976444 Physics, 5/e 0321980395 / 9780321980397 MasteringPhysics with Pearson eText -- ValuePack Access Card -- for Physics, 5/e

Handbook of Water Resources Management: Discourses, Concepts and Examples Janos J. Bogardi 2021-06-12 This book provides an overview of facts, theories and methods from hydrology, geology, geophysics, law, ethics, economics, ecology, engineering, sociology, diplomacy and many other disciplines with relevance for concepts and practice of water resources management. It provides

comprehensive, but also critical reading material for all communities involved in the ongoing water discourses and debates. The book refers to case studies in the form of boxes, sections, or as entire chapters. They illustrate success stories, but also lessons to be remembered, to avoid repeating the same mistakes. Based on consolidated state-of-the-art knowledge, it has been conceived and written to attract a multidisciplinary audience. The aim of this handbook is to facilitate understanding between the participants of the international water discourse and multi-level decision making processes. Knowing more about water, but also about concepts, methods and aspirations of different professional, disciplinary communities and stakeholders professionalizes the debate and enhances the decision making.

Communications, Signal Processing, and Systems

Qilian Liang 2018-06-07 This book brings together papers presented at the 2017 International Conference on Communications, Signal Processing, and Systems (ICCSP 2017), which was held on July 14–17, 2017 in Harbin, China. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics ranging from communications, signal processing and systems. It is aimed at undergraduate and graduate electrical engineering, computer science and mathematics students, researchers and engineers from

academia and industry as well as government employees.

Advances and Challenges in Microphytobenthos Research: From Cell Biology to Coastal

Ecosystem Function João Serôdio 2020-12-29

Advances in Artificial Intelligence Yukio Ohsawa

2020-02-03 This book presents selected and extended papers from the largest conference on artificial intelligence in Japan, which was expanded into an internationalized event for the first time in 2019: the 33rd Annual Conference of the Japanese Society for Artificial Intelligence (JSAI 2019), held on June 4–June 7, 2019 at TOKI MESSE in Niigata, Japan. The book's content has been divided into six major sections, on (I) knowledge engineering, (II) agents, (III) education and culture, (IV) natural language processing, (V) machine learning and data mining, and (VI) cyber physics. Given its scope, the book offers a valuable reference guide for professionals, undergraduate and graduate students engaged in disciplines, fields, technologies, or philosophies relevant to AI, e.g., computer/data science, robotics, linguistics, and physics, introducing them to recent advances in this area and discussing the human society of tomorrow.

Sport Science Research and Technology Support

Jan Cabri 2019-03-18 This book constitutes the thoroughly refereed post-conference proceedings of the 4th and 5th International Congress on

Sports Science Research and Technology Support, icSPORT 2016 and 2017, held respectively in Porto, Portugal, on November 7-9, 2016 and in Funchal, Madeira, Portugal, on October 30-31, 2017. The 13 revised full papers (7 papers in 2016 and 6 papers in 2017) along with 1 short paper presented were carefully reviewed and selected from 93 submissions (53 in 2016 and 40 in 2017). The papers cover the following topics: signal processing and motor behavior; neuromuscular physiology; sports medicine and support technology; physiotherapy and rehabilitation; health, sports performance and support technology; applied physiology and exercise; computer systems in sports; computer supported training and decision support systems.

Advanced Technology Related to Radar Signal, Imaging, and Radar Cross-Section Measurement

Hirokazu Kobayashi 2020-06-16 Radar-related technology is mainly processed within the time and frequency domains but, at the same time, is a multi-dimensional integrated system including a spatial domain for transmitting and receiving electromagnetic waves. As a result of the enormous technological advancements of the pioneers actively discussed in this book, research and development in multi-dimensional undeveloped areas is expected to continue. This book contains state-of-the-art work that should guide your research.

Quality Control of Cellular Protein in

Neurodegenerative Disorders Uddin, Md. Sahab 2020-02-14 Protein misfolding and aggregation are hallmarks of several neurodegenerative proteinopathies. Though multiple factors like aging, oxidative stress, mitochondrial dysfunction, proteotoxic insults, genetic inconsistency, etc. are responsible for the dysfunction of the neuronal protein quality control system, targeting protein quality control has become an auspicious approach to halt the propagation of neurodegeneration. Quality Control of Cellular Protein in Neurodegenerative Disorders provides diverse aspects exploring the role of the protein quality control in neurodegenerative disorders and potential therapeutic strategies to combat the development and propagation of neurodegeneration. Featuring coverage on a broad range of topics such as molecular chaperones, protein misfolding, and stress signaling, this book is ideally designed for neurobiologists, neuropsychologists, neurophysiologists, medical professionals, neuropathologists, researchers, academicians, students, and practitioners engaged in studies of the protein quality control system in neuronal cells.

Design and Measurement Strategies for Meaningful Learning Gómez Ramos, José Luis 2022-04-01 Teaching content and measuring content are frequently considered separate entities when designing teaching instruction. This

can create a disconnect between how students are taught and how well they succeed when it comes time for assessment. To heal this rift, the theory of meaningful learning is a potential solution for designing effective teaching-learning and assessment materials. Design and Measurement Strategies for Meaningful Learning considers the best practices, challenges, and opportunities of instructional design as well as the theory and impact of meaningful learning. It provides educators with an essential text instructing them on how to successfully design and measure the content they teach. Covering a wide range of topics such as blended learning, online interaction, and learning assessment, this reference work is ideal for teachers, instructional designers, curriculum developers, policymakers, administrators, academicians, researchers, practitioners, and students.

International Conference on Security and Privacy in Communication Networks Jing Tian 2015-11-21 This 2-volume set constitutes the thoroughly refereed post-conference proceedings of the 10th International Conference on Security and Privacy in Communication Networks, SecureComm 2014, held in Beijing, China, in September 2014. The 27 regular and 17 short papers presented were carefully reviewed. It also presents 22 papers accepted for four workshops (ATCS, SSS, SLSS, DAPRO) in conjunction with the conference, 6 doctoral symposium papers and 8 poster papers.

The papers are grouped in the following topics: security and privacy in wired, wireless, mobile, hybrid, sensor, ad hoc networks; network intrusion detection and prevention, firewalls, packet filters; malware, and distributed denial of service; communication privacy and anonymity; network and internet forensics techniques; public key infrastructures, key management, credential management; secure routing, naming/addressing, network management; security and privacy in pervasive and ubiquitous computing; security & privacy for emerging technologies: VoIP, peer-to-peer and overlay network systems; security & isolation in data center networks; security & isolation in software defined networking.

Cases on Immersive Virtual Reality Techniques

Yang, Kenneth C.C. 2019-04-12 As virtual reality approaches mainstream consumer use, new research and innovations in the field have impacted how we view and can use this technology across a wide range of industries. Advancements in this technology have led to recent breakthroughs in sound, perception, and visual processing that take virtual reality to new dimensions. As such, research is needed to support the adoption of these new methods and applications. Cases on Immersive Virtual Reality Techniques is an essential reference source that discusses new applications of virtual reality and how they can be integrated with immersive techniques and computer resources. Featuring

research on topics such as 3D modeling, cognitive load, and motion cueing, this book is ideally designed for educators, academicians, researchers, and students seeking coverage on the applications of collaborative virtual environments.

Scientific Inquiry and Nature of Science Lawrence

Flick 2007-10-23 This book synthesizes current literature and research on scientific inquiry and the nature of science in K-12 instruction. Its presentation of the distinctions and overlaps of inquiry and nature of science as instructional outcomes are unique in contemporary literature. Researchers and teachers will find the text interesting as it carefully explores the subtleties and challenges of designing curriculum and instruction for integrating inquiry and nature of science.

HCI in Business Fiona Fui-Hoon Nah 2014-06-02

This volume constitutes the refereed proceedings of the First International Conference on HCI in Business, HCIB 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCI International 2014, in Heraklion, Crete, Greece, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from numerous submissions. The papers address the latest research and development efforts and highlight the human aspects of design and use of

computing systems. They thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The 76 papers included in this volume deal with the following topics: enterprise systems; social media for business; mobile and ubiquitous commerce; gamification in business; B2B, B2C, C2C e-commerce; supporting collaboration, business and innovation and user experience in shopping and business.

Robert Grosseteste and Theories of Education

Jack P. Cunningham 2019-12-20 This book examines Robert Grosseteste's often underrepresented ideas on education. It uniquely brings together academics from the fields of medieval history, modern science and contemporary education to shed new light on a fascinating medieval figure whose work has an enormous amount to offer anyone with an interest in our educational processes. The book locates Grosseteste as a key figure in the intellectual history of medieval Europe and positions him as an important thinker who concerned himself with the science of education and set out to elucidate the processes and purposes of learning. This book offers an important practical contribution to the discussion of the contemporary nature and purpose of many aspects of our education processes. This book will be of interest to students, researchers and academics in the

disciplines of educational philosophy, medieval history, philosophy and theology.

PFAS in paper and board for food contact Xenia Trier 2018-04-25 Poly- and perfluorinated alkyl substances (PFAS) are used in paper and board food contact materials (FCMs) and they have been found to be highly persistent, bioaccumulative and toxic. The purpose of the Nordic workshop and of this report is to: * create an overview of the use of PFAS in FCMs of paper and board and of the toxicity and migration into food of the various substances * provide an overview of whether appropriate risk assessments for fluorinated substances exist as a basis for specific regulations or recommendations * provide an overview of whether analytical methods suitable for analysing and regulating the substances are available * discuss the possibility and structure of national regulations or Nordic recommendations for PFAS in FCMs of paper and board. Risk management to reduce the total content of organically bound fluorine in paper and board FCMs is supported.

Land Use Competition Jörg Niewöhner 2016-07-29 This book contributes to broadening the interdisciplinary knowledge basis for the description, analysis and assessment of land use practices. It presents conceptual advances grounded in empirical case studies on four main themes: distal drivers, competing demands on different scales, changing food regimes and land-

water competition. Competition over land ownership and use is one of the key contexts in which the effects of global change on social-ecological systems unfold. As such, understanding these rapidly changing dynamics is one of the most pressing challenges of global change research in the 21st century. This book contributes to a deeper understanding of the manifold interactions between land systems, the economics of resource production, distribution and use, as well as the logics of local livelihoods and cultural contexts. It addresses a broad readership in the geosciences, land and environmental sciences, offering them an essential reference guide to land use competition.

Einstein's Fridge Paul Sen 2022-03-22 This entertaining, eye-opening account of how the laws of thermodynamics are essential to understanding the world today—from refrigeration and jet engines to calorie counting and global warming—is “a lesson in how to do popular science right” (Kirkus Reviews). Einstein’s Fridge tells the incredible epic story of the scientists who, over two centuries, harnessed the power of heat and ice and formulated a theory essential to comprehending our universe. “Although thermodynamics has been studied for hundreds of years...few nonscientists appreciate how its principles have shaped the modern world” (Scientific American). Thermodynamics—the branch of physics that deals with energy and

entropy—governs everything from the behavior of living cells to the black hole at the center of our galaxy. Not only that, but thermodynamics explains why we must eat and breathe, how lights turn on, the limits of computing, and how the universe will end. The brilliant people who decoded its laws came from every branch of the sciences; they were engineers, physicists, chemists, biologists, cosmologists, and mathematicians. From French military engineer and physicist Sadi Carnot to Lord Kelvin, James Joule, Albert Einstein, Emmy Noether, Alan Turing, and Stephen Hawking, author Paul Sen introduces us to all of the players who passed the baton of scientific progress through time and across nations. Incredibly driven and idealistic, these brave pioneers performed groundbreaking work often in the face of torment and tragedy. Their discoveries helped create the modern world and transformed every branch of science, from biology to cosmology. “Elegantly written and engaging” (Financial Times), Einstein’s Fringe brings to life one of the most important scientific revolutions of all time and captures the thrill of discovery and the power of scientific progress to shape the course of history.

Graph-Theoretic Concepts in Computer Science

Dieter Kratsch 2014-10-20 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.

Image Analysis and Recognition Aurélio Campilho

2014-10-09 The two volumes LNCS 8814 and 8815 constitute the thoroughly refereed proceedings of the 11th International Conference on Image Analysis and Recognition, ICIAR 2014, held in Vilamoura, Portugal, in October 2014. The 107 revised full papers presented were carefully reviewed and selected from 177 submissions. The papers are organized in the following topical sections: image representation and models; sparse representation; image restoration and enhancement; feature detection and image segmentation; classification and learning

methods; document image analysis; image and video retrieval; remote sensing; applications; action, gestures and audio-visual recognition; biometrics; medical image processing and analysis; medical image segmentation; computer-aided diagnosis; retinal image analysis; 3D imaging; motion analysis and tracking; and robot vision.

Practical Ethics Peter Singer 2011-02-21 For thirty years, Peter Singer's *Practical Ethics* has been the classic introduction to applied ethics. For this third edition, the author has revised and updated all the chapters and added a new chapter addressing climate change, one of the most important ethical challenges of our generation. Some of the questions discussed in this book concern our daily lives. Is it ethical to buy luxuries when others do not have enough to eat? Should we buy meat from intensively reared animals? Am I doing something wrong if my carbon footprint is above the global average? Other questions confront us as concerned citizens: equality and discrimination on the grounds of race or sex; abortion, the use of embryos for research and euthanasia; political violence and terrorism; and the preservation of our planet's environment. This book's lucid style and provocative arguments make it an ideal text for university courses and for anyone willing to think about how she or he ought to live.

Recent Advances in Medicinal Chemistry Atta-ur-

Rahman 2015-06-16 Originally published by Bentham and now distributed by Elsevier, *Recent Advances in Medicinal Chemistry, Volume 1* covers leading-edge research and recent developments in rational drug design, synthetic chemistry, bioorganic chemistry, high-throughput screening, combinatorial chemistry, drug targets, and natural product research and structure-activity relationship studies. The fourteen updated reviews include unique experimental data and references, and each article highlights an important topic in current medicinal chemistry research. Topics covered include: aureolic acid group of anti-cancer antibiotics and non-steroidal anti-inflammatory drugs; aromatase inhibitors in adjuvant endocrine treatment of early-stage breast cancer in postmenopausal women; Rho GTPases and statins in targeting and developing therapies for tumors; and more. Edited and written by leading experts in medicinal chemistry research Reviews recent advances in the field, including the characterization of inorganic nanomaterials as therapeutic vehicles Covers a variety of topical areas, such as HPLC and in the analysis of tricyclic antidepressants in biological samples, and tannins and their influence on health

PLATE: Product Lifetimes And The Environment

C.A. Bakker 2017-11-14 Product lifetimes are critical for the circular economy, resource efficiency, waste reduction and low carbon

strategies for sustainability, and are therefore of interest to academics from many different disciplines as well as original equipment manufacturers (OEMs) and other stakeholders. The challenges related to product lifetimes must be tackled from multiple perspectives, making the sharing of knowledge and expertise from different disciplines particularly important. This book presents papers from the second Product Lifetime and the Environment (PLATE) conference, held in Delft, the Netherlands, in November 2017. The conference originated from the desire to bring together academic researchers working in the field of sustainability to benefit from each other's knowledge and further advance the field. The book includes the 88 full papers delivered at the conference, grouped according to the following 7 conference themes: design for product longevity; product lifetime optimization; cultural perspectives on the throwaway society; circular economy and product lifetimes; business opportunities, economic implications and marketing strategies; consumer influences on product lifetimes; and policy, regulation and legislation. The book will be of interest to all those concerned with sustainable consumption, circular economy and resource efficiency.

Integrating Technology in Positive Psychology

Practice Villani, Daniela 2016-02-29 Most research on the psychological impact of computers and the Internet has focused on the

negative side of technology – i.e. how the use (abuse) of interactive systems and videogames can negatively affect mental health and behavior. On the other hand, less attention has been devoted to understanding how emerging technologies can promote optimal functioning at individual, group, and community levels.

Integrating Technology in Positive Psychology Practice explores the various roles that technology can play in the development of psychological interventions aimed at helping people thrive. Exploring the ways in which ICT can be utilized to foster positive emotions, promote engagement in empowering activities, and support connectedness between individuals, groups, and communities, this timely publication is designed for use by psychologists, IT developers, researchers, and graduate students.

A New Concept of Matrix Algorithm for MST in Undirected Interval Valued Neutrosophic Graph

Said Broumi In this chapter, we introduce a new algorithm for finding a minimum spanning tree (MST) of an undirected neutrosophic weighted connected graph whose edge weights are represented by an interval valued neutrosophic number.

Advances in Nuclear Science and Technology

Ernest J. Henley 2014-05-09 *Advances in Nuclear Science and Technology*, Volume 8 discusses the development of nuclear power in several countries throughout the world. This book

discusses the world's largest program of land-based electricity production in the United States. Organized into six chapters, this volume begins with an overview of the phenomenon of quasi-exponential behavior by examining two mathematical models of the neutron field. This text then discusses the finite element method, which is a method for obtaining approximate solutions to integral or differential equations. Other chapters consider the status of the accuracy of nuclear data used for reactor calculations and the target accuracies required by reactor physics. This book discusses as well the role of integral experiments for the improvement of nuclear data and the different approaches taken to enhance them. The final chapter deals with the manufacture and application of coated particles. This book is a valuable resource for reactor physicists, engineers, scientists, and research workers.

Cognitive Diagnostic Assessment for Learning

Peida Zhan 2022-01-19

Scientific Papers of the Institute of Physical and Chemical Research Rikagaku Kenkyūjo (Japan)
1971

Encouraging Student Interest in Science and Technology Studies OECD 2008-11-12 Examines overall trends in higher education enrolments and the evolution of S&T compared with other disciplines.

Advanced Classical Electrodynamics Ulrich D

Jentschura 2017-05-09 This textbook introduces advanced classical electrodynamics using modern mathematical techniques, with an emphasis on physical concepts. Connections to field theory and general relativity are highlighted while the book still serves as the basis for a one- or two-semester course on electrodynamics within the graduate curriculum. Request Inspection Copy

Improving and Accelerating Therapeutic Development for Nervous System Disorders
Institute of Medicine 2014-02-06 Improving and Accelerating Therapeutic Development for Nervous System Disorders is the summary of a workshop convened by the IOM Forum on Neuroscience and Nervous System Disorders to examine opportunities to accelerate early phases of drug development for nervous system drug discovery. Workshop participants discussed challenges in neuroscience research for enabling faster entry of potential treatments into first-in-human trials, explored how new and emerging tools and technologies may improve the efficiency of research, and considered mechanisms to facilitate a more effective and efficient development pipeline. There are several challenges to the current drug development pipeline for nervous system disorders. The fundamental etiology and pathophysiology of many nervous system disorders are unknown and the brain is inaccessible to study, making it difficult to develop accurate models. Patient

heterogeneity is high, disease pathology can occur years to decades before becoming clinically apparent, and diagnostic and treatment biomarkers are lacking. In addition, the lack of validated targets, limitations related to the predictive validity of animal models - the extent to which the model predicts clinical efficacy - and regulatory barriers can also impede translation and drug development for nervous system disorders. Improving and Accelerating Therapeutic Development for Nervous System Disorders identifies avenues for moving directly from cellular models to human trials, minimizing the need for animal models to test efficacy, and discusses the potential benefits and risks of such an approach. This report is a timely discussion of opportunities to improve early drug development with a focus toward preclinical trials.

The British Chess Magazine; Volume 16

Anonymous 2018-10-18 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality

reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Introduction to Natural Language Processing

Jacob Eisenstein 2019-10-01 A survey of computational methods for understanding, generating, and manipulating human language, which offers a synthesis of classical representations and algorithms with contemporary machine learning techniques. This textbook provides a technical perspective on natural language processing—methods for building computer software that understands, generates, and manipulates human language. It emphasizes contemporary data-driven approaches, focusing on techniques from supervised and unsupervised machine learning. The first section establishes a foundation in machine learning by building a set of tools that will be used throughout the book and applying them to word-based textual analysis. The second section introduces structured representations of language, including sequences, trees, and graphs. The third section explores different approaches to the representation and analysis of linguistic meaning, ranging from formal logic to neural word embeddings. The final section offers chapter-length treatments of three

transformative applications of natural language processing: information extraction, machine translation, and text generation. End-of-chapter exercises include both paper-and-pencil analysis and software implementation. The text synthesizes and distills a broad and diverse research literature, linking contemporary machine learning techniques with the field's linguistic and computational foundations. It is suitable for use in advanced undergraduate and graduate-level courses and as a reference for software engineers and data scientists. Readers should have a background in computer programming and college-level mathematics. After mastering the material presented, students will have the technical skill to build and analyze novel natural language processing systems and to understand the latest research in the field.

Seidel's Guide to Physical Examination – E-Book

Jane W. Ball 2017-12-21 Seidel's Guide to Physical Examination 9th Edition offers a uniquely interprofessional, patient-centered, lifespan approach to physical examination and health assessment. This new edition features an increased focus on patient safety, clinical reasoning, and evidence-based practice, along with an emphasis on the development of good communication skills and effective hands-on examination techniques. Each core chapter is organized into four sections – Anatomy and Physiology, Review of Related History,

Examination and Findings, and Abnormalities – with lifespan content integrated into each area. Written by an author team comprised of advanced practice nurses and physicians with specialties in the care of adults, older adults, and children, this one-of-a-kind textbook addresses health assessment and physical examination for a wide variety of disciplines. UNIQUE! Interprofessional, interdisciplinary approach, written by two advanced practice nurses and three physicians, with expertise in both pediatric and adult-geriatric health. UPDATED! Infectious outbreak content addresses the growing problem of global infectious disease outbreaks such as Zika and Ebola and the need for infection precautions. UNIQUE! Cross-references to Dains et al: Advanced Health Assessment & Clinical Diagnosis in Primary Care help you take "the next step" in your clinical reasoning abilities and provides a more seamless user experience. UNIQUE! Compassionate, patient-centered approach emphasizes developing good communication skills, use of effective hands-on examination techniques, and reliance on clinical reasoning and clinical decision-making. Integrated lifespan content includes separate sections in each chapter on Infants and Children, Adolescents, Pregnant Women, and Older Adults. NEW! Emphasis on clinical reasoning provides insights and clinical expertise to help you develop clinical judgment skills. NEW! Enhanced

emphasis on patient safety and healthcare quality, particularly as it relates to sports participation. NEW! Content on documentation has been updated with a stronger focus on electronic charting (EHR/EMR). NEW! Enhanced social inclusiveness and patient-centeredness incorporates LGBTQ patients and providers, with special a emphasis on cultural competency, history-taking, and special considerations for examination of the breasts, female and male

genitalia, reproductive health, thyroid, and anus/rectum/prostate. NEW! Telemedicine, virtual consults, and video interpreters content added to the Growth, Measurement, and Nutrition chapter. NEW! Improved readability with a clear, straightforward, and easy-to-understand writing style. NEW! Updated drawing, and photographs enhance visual appeal and clarify anatomical content and exam techniques.