

# Physical Sciences Mst Paper 2014

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Natural Language Processing and Information Systems Elisabeth Métais 2014-06-16 This book constitutes the refereed proceedings of the 19th International Conference on Applications of Natural Language to Information Systems, NLDB 2014, held in Montpellier, France, in June 2014. The 13 long papers, 8 short papers, 14 poster papers, and 7 demo papers presented together with 2 invited talks in this volume were carefully reviewed and selected from 73 submissions. The papers cover the following topics: syntactic, lexical and semantic analysis; information extraction; information retrieval and sentiment analysis and social networks.

Advanced Materials Science and Technology II Risa Suryana 2015-08-26 Collection of selected, peer reviewed papers from the International Conference on Advanced Materials Science and Technology (ICAMST 2014), September 16-17, 2014, Solo, Indonesia. The 86 papers are grouped as follows: Chapter 1: Mathematical Theory and Numerical Methods; Chapter 2: Materials Synthesis and Properties Research; Chapter 3: Eco-Friendly and Biocompatible Materials; Chapter 4: Nanomaterials - Synthesis and Application; Chapter 5: Materials Manufacturing, Processing and Applications

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.

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.

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.

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.

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.

Advanced Fuzzy Logic Approaches in Engineering Science Ram, Mangey 2018-09-14 Fuzzy logic techniques have had extraordinary growth in various engineering systems. The developments in engineering sciences have caused apprehension in modern years due to high-tech industrial processes with ever-increasing levels of complexity. Advanced Fuzzy Logic Approaches in Engineering Science provides innovative insights into a comprehensive range of soft fuzzy logic techniques applied in various fields of engineering problems like fuzzy sets theory, adaptive neuro fuzzy inference system, and hybrid fuzzy logic genetic algorithms belief networks in industrial and engineering settings. The content within this publication represents the work of particle swarms, fuzzy computing, and rough sets. It is a vital reference source for engineers, research scientists, academicians, and graduate-level students seeking coverage on topics centered on the applications of fuzzy logic in high-tech industrial processes.

Mine Safety Science and Engineering Debi Prasad Tripathy 2019-09-19 In Mining Engineering operations, mines act as sources of constant danger and risk to the miners and may result in disasters unless mining is done with safety legislations and practices in place. Mine safety engineers promote and enforce mine safety and health by complying with the established safety standards, policies, guidelines and regulations. These innovative and practical methods for ensuring safe mining operations are discussed in this book including technological advancements in the field. It will prove useful as reference for engineering and safety professionals working in the mining industry, regulators, researchers, and students in the field of mining engineering.

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 Papers of the Institute of Physical and Chemical Research Rikagaku Kenky?jo (Japan) 1971

Terrestrial Ecosystem Research Infrastructures Abad Chabbi 2017-03-03 Terrestrial Ecosystem Research Infrastructures: Challenges and Opportunities reveals how environmental research infrastructures (RIs) provide new valuable insights on ecological processes that cannot be realized by more traditional short-term funding cycles and are integral to understand our changing world. This book bonds the latest state-of-the-science knowledge on environmental RIs, the challenges in creating them, their place in addressing scientific frontiers, and the new perspectives they bear. Each chapter is thoughtfully invested with fresh viewpoints from the environmental RI vantage as the authors explore and explain many topics such as the rationale and challenges in global change, field and modeling platforms, new tools, challenges in data management, distilling information into knowledge, and new developments in large-scale RIs. This work serves an advantageous guide for academics and practitioners alike who aim to deepen their knowledge in the field of science and project management, and logistics operations.

Brain Informatics and Health Giorgio A. Ascoli 2016-09-22 This book constitutes the refereed proceedings of the International Conference on Brain and Health Informatics, BHI 2016, held in Omaha, USA, in October 2016. The 37 revised full papers, including two workshop papers from BAI 2016, presented were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on cognitive and computational foundations of brain science; investigations of human information processing systems; brain big data analytics, curation and management; new methodologies for brain and mental health; brain-inspired intelligence and computing; brain and artificial intelligence.

Proceedings of the 2015 Chinese Intelligent Automation Conference Zhidong Deng 2015-04-20 Proceedings of the 2015 Chinese Intelligent Automation Conference presents selected research papers from the CIAC'15, held

in Fuzhou, China. The topics include adaptive control, fuzzy control, neural network based control, knowledge based control, hybrid intelligent control, learning control, evolutionary mechanism based control, multi-sensor integration, failure diagnosis, reconfigurable control, etc. Engineers and researchers from academia, industry and the government can gain valuable insights into interdisciplinary solutions in the field of intelligent automation.

**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.

**Electronics, Communications and Networks IV** Amir Hussain 2015-07-01 The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum.

**The Ocean Economy in 2030** OECD 2016-04-27 This report explores the growth prospects for the ocean economy, its capacity for future employment creation and innovation, and its role in addressing global challenges. Special attention is devoted to the emerging ocean-based industries.

**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.

**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 Fridge 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.

**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.

**Nanoscale Networking and Communications Handbook** John R. Vacca 2019-07-15 This comprehensive handbook serves as a professional reference as well as a practitioner's guide to today's most complete and

concise view of nanoscale networking and communications. It offers in-depth coverage of theory, technology, and practice as they relate to established technologies and recent advancements. It explores practical solutions to a wide range of nanoscale networking and communications issues. Individual chapters, authored by leading experts in the field, address the immediate and long-term challenges in the authors' respective areas of expertise. Water Conservation in the Era of Global Climate Change Binota Thokchom 2021-02-25 Water Conservation in the Era of Global Climate Change reviews key issues surrounding climate change and water resources. The book brings together experts from a variety of fields and perspectives, providing a comprehensive view on how climate change impacts water resources, how water pollution impacts climate change, and how to assess potential hazards and success stories on managing and addressing current issues in the field. Topics also include assessing policy impacts, innovative water reuse strategies, and information on impacts on fisheries and agriculture including food scarcity. This book is an excellent tool for researchers and professionals in Climate Change, Climate Services and Water Resources, and those trying to combat the impacts and issues related to Global and Planetary Change. Covers a wide range of theoretical and practical issues related to how climate change impacts water resources and adaptation, with extended influence on agriculture, food and water security, policymaking, etc. Reviews mathematical tools and simulations models on predicting potential hazards from climate change in such a way they can be useful to readers from a variety of levels of mathematical expertise Examines the potential impacts on agriculture and drinking water quality Includes case studies of successful management of water and pollutants that contribute to climate change

Mídia, terceiro setor e MST Maria da Glória Marcondes Gohn 2000

The British Pharmacopoeia, 1864 to 2014 Mr Anthony C Cartwright 2015-06-28 The British Pharmacopoeia has provided official standards for the quality of substances and articles used in medicine since its first publication. Cartwright explores how these standards have been achieved through a comprehensive review of the history and development of pharmacopoeias in the UK. The book, which places the British Pharmacopoeia in its global context as an instrument of the British Empire, will be of value to historians of medicine and pharmacy and practitioners of medicine, pharmacy and pharmaceutical analytical chemistry.

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.

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 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.

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.

Routledge Handbook of National and Regional Ocean Policies Biliana Cicin-Sain 2015-05-15 This comprehensive handbook, prepared by leading ocean policy academics and practitioners from around the world, presents in-depth analyses of the experiences of fifteen developed and developing nations and four key regions of the world that have taken concrete steps toward cross-cutting and integrated national and regional ocean

policy. All chapters follow a common framework for policy analysis. While most coastal nations of the world already have a variety of sectoral policies in place to manage different uses of the ocean (such as shipping, fishing, oil and gas development), in the last two decades, the coastal nations covered in the book have undertaken concerted efforts to articulate and implement an integrated, ecosystem-based vision for the governance of ocean areas under their jurisdiction. This includes goals and procedures to harmonize existing uses and laws, to foster sustainable development of ocean areas, to protect biodiversity and vulnerable resources and ecosystems, and to coordinate the actions of the many government agencies that are typically involved in oceans affairs. The book highlights the serious conflicts of use in most national ocean zones and the varying attempts by nations to follow the prescriptions emanating from the 1982 UN Law of the Sea Convention and the outcomes of the 1992, 2002, and 2012 sustainable development summits. The interrelationship among uses and processes in the coast and ocean requires that ocean governance be integrated, precautionary, and anticipatory. Overall, the book provides a definitive state-of-the-art review and analysis of national and regional ocean policies around the world.

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.

Corrosion of Aluminium Christian Vargel 2020-05-18 Corrosion of Aluminium, Second Edition, highlights the practical and general aspects of the corrosion of aluminium alloys. Chapters help readers new to the topic understand the metallurgical, chemical and physical features of aluminium alloys. Author Christian Vargel adopts a practitioner styled approach that is based on the expertise he has gained during a 40-year career in aluminium corrosion. The book assesses the corrosion resistance of aluminium, a key metric recognized as one of the main conditions for the development of many uses of aluminium in transport, construction, power transmission, and more. Features 600 bibliographic references, providing a comprehensive guide to over 100 years of related study Includes numerous illustrations to enhance study Presents practical applications across many industries Provides an accessible reference for both beginners and experts

Muslim Piety as Economy Johan Fischer 2019-10-11 The first volume to explore Muslim piety as a form of economy, this book examines specific forms of production, trade, regulation, consumption, entrepreneurship and science that condition – and are themselves conditioned by – Islamic values, logics and politics. With a focus on Southeast Asia as a site of significant and diverse integration of Islam and the economy – as well as the incompatibilities that can occur between the two – it reveals the production of a Muslim piety as an economy in its own right. Interdisciplinary in nature and based on in-depth empirical studies, the book considers issues such as the Qur'anic prohibition of corruption and anti-corruption reforms; the emergence of the Islamic economy under colonialism; 'halal' or 'lawful' production, trade, regulation and consumption; modesty in Islamic fashion marketing communications; and financialisation, consumerism and housing. As such, it will appeal to scholars of sociology, anthropology and religious studies with interests in Islam and Southeast Asia.

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.

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.

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.

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.

Advances and Challenges in Microphytobenthos Research: From Cell Biology to Coastal Ecosystem Function  
João Serôdio 2020-12-29

UNEP Frontiers 2016 Report United Nations Environment Programme 2016-08-18 The UNEP Frontiers report emphasises the critical relationship between a healthy environment and healthy people, and how human activities often undermine the long-term health and ability of ecosystems to support human well-being. The report provides encouraging examples on how certain issues may be addressed by innovating and rethinking policy interventions, new solutions or adapting existing practices. The UNEP Frontier series will continue to link new science to outcome-oriented policies, and by extension, keep the public informed of the health of the environment and its sustainability.

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.

Mulberry Maharaj Krishen Razdan 2021-07-26 Mulberry (*Morus* spp.) is an important horticultural plant in the sericulture industry. It belongs to the family Moraceae. The leaf of mulberry is used to feed the silkworm *Bombyx mori* L. It is also used as a fodder. Due to its economic and agricultural importance, mulberry is cultivated in many parts of the world. An estimated 60% of the total cost of silk cocoon production is for production and maintenance of mulberry plants. Therefore, much attention is needed to improve the quality and quantity of mulberry leaves. It is vital to increase the production of superior quality mulberry leaves with high nutritive value for the sericulture industry. Although a lot of research is going on in mulberry, very little effort has been made to compile the results of this research in a single book. This book provides an update of recent research works going on in this plant. It describes the taxonomy, conservation of germplasm, genetic diversity of various mulberry species, application of breeding techniques to improve the quality of mulberry, in vitro conservation, application of tissue culture techniques to improve mulberry species, production of haploids and triploids in mulberry and improvement of abiotic stress adaptive traits in mulberry with relevance to adaptiveness to global warming.