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Neural Information Processing Jun Wang 2006-10-03 The three volume set LNCS 4232, LNCS 4233, and LNCS 4234 constitutes the refereed proceedings of the 13th International Conference on Neural Information Processing, ICONIP 2006, held in Hong Kong, China in October 2006. The 386 revised full papers presented were carefully reviewed and selected from 1175 submissions.

U.S. Government Research & Development Reports 1969-10

Convex Optimization Stephen Boyd 2004-03-08 A comprehensive introduction to the tools, techniques and applications of convex optimization.

NBS Special Publication 1973

Lees' Loss Prevention in the Process Industries Frank Lees 2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes. The field of loss prevention is, and continues to be, of supreme importance to countless companies, municipalities and governments around the world, and Lees' is a detailed reference to defending against hazards. Recognized as the standard work for chemical and process engineering safety professionals, it provides the most complete collection of information on the theory, practice, design elements, equipment, regulations and laws covering the field of process safety. An entire library of alternative books (and cross-referencing systems) would be needed to replace or improve upon it, but everything of importance to safety professionals, engineers and managers can be found in this all-encompassing three volume reference instead. The process safety encyclopedia, trusted worldwide for over 30 years Now available in print and online, to aid searchability and portability Over 3,600 print pages cover the full scope of process safety and loss prevention, compiling theory, practice, standards, legislation, case studies and lessons learned in one

resource as opposed to multiple sources

Health Professions Education Institute of Medicine 2003-07-01 The Institute of Medicine study Crossing the Quality Chasm (2001) recommended that an interdisciplinary summit be held to further reform of health professions education in order to enhance quality and patient safety. Health Professions Education: A Bridge to Quality is the follow up to that summit, held in June 2002, where 150 participants across disciplines and occupations developed ideas about how to integrate a core set of competencies into health professions education. These core competencies include patient-centered care, interdisciplinary teams, evidence-based practice, quality improvement, and informatics. This book recommends a mix of approaches to health education improvement, including those related to oversight processes, the training environment, research, public reporting, and leadership. Educators, administrators, and health professionals can use this book to help achieve an approach to education that better prepares clinicians to meet both the needs of patients and the requirements of a changing health care system.

Bulletin of the Atomic Scientists 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Journal Institution of Electrical Engineers 1973

Communication systems Athol Bruce Carlson 1981

Management, a Continuing Literature Survey with Indexes 1969

ISIE ... 1997

IEEE Transactions on Communication and Electronics 1964

Keywords Index to U.S. Government Technical Reports 1962-06

Electrical & Electronics Abstracts 1997

Proceedings of the IASTED International Symposium, Modelling, Simulation and Optimization International Association of Science and Technology for Development 1990

Smart Technologies for Power and Green Energy Rudra Narayan Dash 2022-09-21 The book is a collection of best selected research papers presented at International Conference on Smart Technology for Power and Green Energy (STPGE 2022), organized by School of Electrical Engineering, KIIT, Deemed to be University, Bhubaneswar, India, during February 12 – 13, 2022. The book discusses recent developments and contemporary research in power electronics and energy.

Proceedings of the 1994 IEEE South African Symposium on Communications and Signal Processing, COMSIG-94, Tuesday, October 4, 1994, University of Stellenbosch, Stellenbosch 1994

Annotated Bibliography of the Literature on Resource Sharing Computer Networks
Helen M. Wood 1976

Dynamic Emotional Communication Wataru Sato 2020-02-12 This eBook aims to deepen our understanding of emotional communication by introducing "dynamic" perspectives. Facial and bodily expressions of emotion functions as indispensable communicative signals for human beings. People decode the emotional information conveyed by facial/bodily expressions and use this to coordinate cooperative or competitive social relationships. Experimental psychological research has long investigated these important means of emotional communication. However, this was typically done by using static stimuli of facial/bodily expressions to assess the detection and interpretation of emotions. This paradigm was also adopted in neuropsychological, neurophysiological, and neuroimaging studies. Although researchers accumulated valuable information regarding the psychological and neural mechanisms underlying these processes, the static nature of the stimuli may have resulted in important phenomena remaining unexamined. Recently, scientists have begun to explore dynamic emotional communication, in particular by using dynamic facial/bodily expressions of emotion, instead of static photographs, as stimuli. This is having important consequences for emotion research. As dynamic emotional expressions have increased ecological validity and as there are differences in the visual processing of dynamic and static information, a host of novel aspects of the psychological and neural processing of emotional expressions have been elucidated. For example, it has been shown that motor resonance and the recruitment of motor areas are fundamental to dynamic emotional communication. Researchers have also started to investigate the encoding of dynamic emotional interactions and have clarified the messages embedded in the temporal aspects and the patterns of reciprocal inter-individual coordination. Moreover, investigations of dynamic emotional communication have identified heretofore unrecognized impairments in the social functioning of individuals with psychiatric disorders, such as autism spectrum disorder and schizophrenia.

Science Abstracts 1995

Energy Research Abstracts 1980

Proceedings, ... International Parallel Processing Symposium & ... Symposium on Parallel and Distributed Processing 2000

Computational and Information Science Jun Zhang 2005-01-18 The 2004 International Symposium on Computational and Information Sciences (CIS 2004) aimed at bringing researchers in the area of computational and - formation sciences together to exchange new ideas and to explore new ground. The goal of the conference was to push the application of modern computing technologies to science, engineering, and information technologies to a new level of sophistication and understanding. TheinitialideatoorganizesuchaconferencewithafocusoncomputationandapplicationswasoriginatedbyDr.JunZhang,duringhisvisittoChinainAugust 2003, in consultation with a few friends, including Dr. Jing Liu at the Chinese Academy of Sciences, Dr. Jun-Hai Yong at Tsinghua University, Dr. Geng Yang at Nanjing University of Posts and Communications, and a few others. After severaldiscussionswithDr.Ji-HuanHe,itwasdecidedthatDonghuaUniversity would host CIS 2004. CIS 2004 attempted to distinguish itself from other conferences in its - phasis on participation rather than publication. A submitted paper was only reviewed with the

explicit understanding that, if accepted, at least one of the authors would attend and present the paper at the conference. It is our - lief that attending conferences is an important part of one's academic career, through which academic networks can be built that may bene?t one's academic life in the long run. We also made every e?ort to support graduate students in attending CIS 2004. In addition to set reduced registration fees for full-time graduate students, we awarded up to three prizes for to the Best Student Papers at CIS 2004. Students whose papers were selected for awards were given cash prizes, plus a waiver of registration fees.

Applied Mechanics Reviews 1973

Distributed Optimization and Statistical Learning Via the Alternating Direction Method of Multipliers Stephen Boyd 2011 Surveys the theory and history of the alternating direction method of multipliers, and discusses its applications to a wide variety of statistical and machine learning problems of recent interest, including the lasso, sparse logistic regression, basis pursuit, covariance selection, support vector machines, and many others.

Government Reports Announcements & Index 1985-02

Swarm Intelligence Wellington Pinheiro dos Santos 2022-11-17 This book presents the fundamentals of swarm intelligence, from classic algorithms to emerging techniques. It presents comprehensive theoretical foundations and examples using the main Computational Intelligence methods in programming languages such as Python, Java and MATLAB®. Real-world applications are also presented in areas as diverse as Medicine, Biology and industrial applications. The book is organized into two parts. The first part provides an introduction to swarming algorithms and hybrid techniques. In the second part, real world applications of swarm intelligence are presented to illustrate how swarm algorithms can be used in applications of optimization and pattern recognition, reviewing the principal methods and methodologies in swarm intelligence.

Neural Information Processing Tingwen Huang 2012-11-05 The five volume set LNCS 7663, LNCS 7664, LNCS 7665, LNCS 7666 and LNCS 7667 constitutes the proceedings of the 19th International Conference on Neural Information Processing, ICONIP 2012, held in Doha, Qatar, in November 2012. The 423 regular session papers presented 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 5 volumes represent 5 topical sections containing articles on theoretical analysis, neural modeling, algorithms, applications, as well as simulation and synthesis.

Essentials of Public Health Communication Claudia Parvanta 2010-09-29 Essentials of Public Health Communication presumes no prior knowledge of the health communication or informatics fields, making it accessible to students from a broad range of disciplines. Concepts are presented in clear, jargon-free language, with terms defined throughout --Book Jacket.

Cumulated Index Medicus 1999

Index to IEEE Publications Institute of Electrical and Electronics Engineers 1998 Issues for 1973- cover the entire IEEE technical literature.

Commerce Business Daily 1998-05

Health Communication Renata Schiavo 2011-01-11 Health Communication: From Theory to Practice is a much needed resource for the fast-growing field of health communication. It combines a comprehensive introduction to current issues, theories, and special topics in health communication with a hands-on guide to program development and implementation. While the book is designed for students, professionals and organizations with no significant field experience, it also includes advanced topics for health communication practitioners, public health experts, researchers, and health care providers with an interest in this field.

Scientific and Technical Aerospace Reports 1994

Logic for Programming, Artificial Intelligence, and Reasoning Ken McMillan 2013-12-05 This book constitutes the proceedings of the 19th International Conference on Logic for Programming, Artificial Intelligence and Reasoning, LPAR-19, held in December 2013 in Stellenbosch, South Africa. The 44 regular papers and 8 tool descriptions and experimental papers included in this volume were carefully reviewed and selected from 152 submissions. The series of International Conferences on Logic for Programming, Artificial Intelligence and Reasoning (LPAR) is a forum where year after year, some of the most renowned researchers in the areas of logic, automated reasoning, computational logic, programming languages and their applications come to present cutting-edge results, to discuss advances in these fields and to exchange ideas in a scientifically emerging part of the world.

Causality, Correlation and Artificial Intelligence for Rational Decision Making Tshilidzi Marwala 2015-01-02 Causality has been a subject of study for a long time. Often causality is confused with correlation. Human intuition has evolved such that it has learned to identify causality through correlation. In this book, four main themes are considered and these are causality, correlation, artificial intelligence and decision making. A correlation machine is defined and built using multi-layer perceptron network, principal component analysis, Gaussian Mixture models, genetic algorithms, expectation maximization technique, simulated annealing and particle swarm optimization. Furthermore, a causal machine is defined and built using multi-layer perceptron, radial basis function, Bayesian statistics and Hybrid Monte Carlo methods. Both these machines are used to build a Granger non-linear causality model. In addition, the Neyman–Rubin, Pearl and Granger causal models are studied and are unified. The automatic relevance determination is also applied to extend Granger causality framework to the non-linear domain. The concept of rational decision making is studied, and the theory of flexibly-bounded rationality is used to extend the theory of bounded rationality within the principle of the indivisibility of rationality. The theory of the marginalization of irrationality for decision making is also introduced to deal with satisficing within irrational conditions. The methods proposed are applied in biomedical engineering, condition monitoring and for modelling interstate conflict. Contents:Introduction to Artificial Intelligence based Decision MakingWhat is a Correlation Machine?What is a Causal Machine?Correlation Machines Using Optimization MethodsNeural Networks for Modeling Granger CausalityRubin, Pearl and Granger Causality Models: A Unified ViewCausal, Correlation and Automatic Relevance Determination Machines for Granger CausalityFlexibly-bounded RationalityMarginalization of Irrationality in Decision MakingConclusions and Further Work Readership: Graduate students, researchers

and professionals in the field of artificial intelligence. Key Features:It proposes fresh definition of causality and proposes two new theories i.e. flexibly bounded rationality and marginalization of irrationality theory for decision makingIt also applies these techniques to a diverse areas in engineering, political science and biomedical engineeringKeywords:Causality;Correlation;Artificial Intelligence;Rational Decision Making

Biologically Inspired Techniques in Many-Criteria Decision Making Satchidananda Dehuri 2020-01-21 This book addresses many-criteria decision-making (MCDM), a process used to find a solution in an environment with several criteria. In many real-world problems, there are several different objectives that need to be taken into account. Solving these problems is a challenging task and requires careful consideration. In real applications, often simple and easy to understand methods are used; as a result, the solutions accepted by decision makers are not always optimal solutions. On the other hand, algorithms that would provide better outcomes are very time consuming. The greatest challenge facing researchers is how to create effective algorithms that will yield optimal solutions with low time complexity. Accordingly, many current research efforts are focused on the implementation of biologically inspired algorithms (BIAs), which are well suited to solving uni-objective problems. This book introduces readers to state-of-the-art developments in biologically inspired techniques and their applications, with a major emphasis on the MCDM process. To do so, it presents a wide range of contributions on e.g. BIAs, MCDM, nature-inspired algorithms, multi-criteria optimization, machine learning and soft computing.

INFORMS Conference Program Institute for Operations Research and the Management Sciences. National Meeting 1999

Integrated Groundwater Management Anthony J Jakeman 2016-08-05 The aim of this book is to document for the first time the dimensions and requirements of effective integrated groundwater management (IGM). Groundwater management is a formidable challenge, one that remains one of humanity's foremost priorities. It has become a largely non-renewable resource that is overexploited in many parts of the world. In the 21st century, the issue moves from how to simply obtain the water we need to how we manage it sustainably for future generations, future economies, and future ecosystems. The focus then becomes one of understanding the drivers and current state of the groundwater resource, and restoring equilibrium to at-risk aquifers. Many interrelated dimensions, however, come to bear when trying to manage groundwater effectively. An integrated approach to groundwater necessarily involves many factors beyond the aquifer itself, such as surface water, water use, water quality, and ecohydrology. Moreover, the science by itself can only define the fundamental bounds of what is possible; effective IGM must also engage the wider community of stakeholders to develop and support policy and other socioeconomic tools needed to realize effective IGM. In order to demonstrate IGM, this book covers theory and principles, embracing: 1) an overview of the dimensions and requirements of groundwater management from an international perspective; 2) the scale of groundwater issues internationally and its links with other sectors, principally energy and climate change; 3) groundwater governance with regard to principles, instruments and institutions available for IGM; 4) biophysical constraints and the capacity and role of hydroecological and hydrogeological science including water quality concerns; and 5) necessary tools including models, data infrastructures, decision support systems and the management of uncertainty. Examples of effective, and failed, IGM are given. Throughout, the importance of the socioeconomic context that connects all effective IGM is

emphasized. Taken as a whole, this work relates the many facets of effective IGM, from the catchment to global perspective.