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Enterprise Knowledge Infrastructures Ronald Maier, Thomas Hädrich, René Peinl, 2009-04-21 Success of an organization is increasingly dependent on its capability to create an environment in order to improve productivity of knowledge work This book focuses on the concepts models and technologies that are used to design and implement such an environment It develops the vision of a modular yet highly integrated enterprise knowledge infrastructure and presents an idealized architecture replete with current technologies and systems The most important streams of technological development that are covered in the book are communication collaboration document and content management e learning enterprise portals business process management information life cycle management information retrieval and visualization knowledge management mobile computing application and network infrastructure Semantic Web and social software It includes learning goals exercises and case examples that help the reader to easily understand and practice the concepts Parallel

Programming Thomas Rauber, Gudula Rünger, 2023-04-04 This textbook covers the new development in processor architecture and parallel hardware It provides detailed descriptions of parallel programming techniques that are necessary for developing efficient programs for multicore processors as well as for parallel cluster systems and supercomputers The book is structured in three main parts covering all areas of parallel computing the architecture of parallel systems parallel programming models and environments and the implementation of efficient application algorithms The emphasis lies on parallel programming techniques needed for different architectures In particular this third edition includes an extended update of the chapter on computer architecture and performance analysis taking new developments such as the aspect of energy consumption into consideration The description of OpenMP has been extended and now also captures the task concept of OpenMP The chapter on message passing programming has been extended and updated to include new features of MPI such as extended reduction operations and non blocking collective communication operations The chapter on GPU programming also has been updated All other chapters also have been revised carefully The main goal of this book is to present parallel programming techniques that can be used in many situations for many application areas and to enable the reader to develop correct and efficient parallel programs Many example programs and exercises are provided to support this goal and to show how the techniques can be applied to further applications The book can be used as a textbook for students as well as a reference book for professionals The material of the book has been used for courses in parallel programming at different universities for many years **Learning Management System Technologies and Software Solutions for**

Online Teaching: Tools and Applications Kats, Yefim, 2010-05-31 This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products review of technologies supporting different aspect of educational process and the best practices and methodologies for LMS supported course delivery Provided by publisher **Inventing the Cloud Century** Marcus Oppitz, Peter Tomsu, 2017-08-03 This book combines the three

dimensions of technology society and economy to explore the advent of today's cloud ecosystems as successors to older service ecosystems based on networks. Further, it describes the shifting of services to the cloud as a long-term trend that is still progressing rapidly. The book adopts a comprehensive perspective on the key success factors for the technology compelling business models and ecosystems including private, public, and national organizations. The authors explore the evolution of service ecosystems, describe the similarities and differences, and analyze the way they have created and changed industries. Lastly, based on the current status of cloud computing and related technologies like virtualization, the Internet of Things, fog computing, big data, and analytics, cognitive computing, and blockchain, the authors provide a revealing outlook on the possibilities of future technologies, the future of the Internet, and the potential impacts on business and society.

Handbook of Research on Public Information Technology Garson, G. David, Khosrow-Pour, D.B.A., Mehdi, 2008-01-31. This book compiles estimable research on the global trend toward the rapidly increasing use of information technology in the public sector, discussing such issues as e-government and e-commerce, project management and information technology evaluation, system design and data processing, security and protection, and privacy, access, and ethics of public information technology. Provided by publisher. *Proceedings*, 2004. *American Book Publishing Record*, 2005. **Cryptography and Satellite Navigation** Joseph J. Rushanan, James T. Gillis, 2024-12-31. Cryptography and Satellite Navigation is a comprehensive guide that offers a wide-ranging yet approachable introduction to the world of cryptography with a particular focus on its role in navigation. In an increasingly connected world, cryptography serves as the cornerstone of secure communication, safeguarding information across countless cyber and navigation applications. The book includes a thorough explanation of the three primary cryptographic methods: Symmetric ciphers provide confidentiality through shared keys, while hashes play a crucial role in ensuring the integrity of information. Asymmetric or public key cryptography introduces a level of security through confidentiality and authentication, uniquely using private information to establish digital signatures. The book contains an insightful exploration of quantum computing and its profound implications for the future of cryptography. This book also delves into the practical application of cryptographic methods through cryptographic protocols essential for the seamless functioning of everyday life. With real-world examples like the Galileo navigation system, the book demonstrates how digital signatures safeguard navigation data, while symmetric ciphers and hashing extend beyond traditional data protection to ensure the authenticity of navigation signals. This book provides valuable insights into the essential role of cryptography in both cyber and navigation domains, preparing its reader for the challenges of a rapidly evolving technological landscape, whether the reader is a seasoned professional or new to the field. **Resources in Education**, 1997. [Books in Print Supplement](#), 1994. **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 *Books in Print* ,1994 **Fairness**

Nissim Francez,2012-12-06 The main purpose of this book is to bring together much of the research conducted in recent years in a subject I find both fascinating and important namely fairness Much of the reported research is still in the form of technical reports theses and conference papers and only a small part has already appeared in the formal scientific journal literature Fairness is one of those concepts that can intuitively be explained very briefly but bear a lot of consequences both in theory and the practicality of programming languages Scientists have traditionally been attracted to studying such concepts However a rigorous study of the concept needs a lot of detailed development evoking much machinery of both mathematics and computer science I am fully aware of the fact that this field of research still lacks maturity as does the whole subject of theoretical studies of concurrency and nondeterminism One symptom of this lack of maturity is the proliferation of models used by the research community to discuss these issues a variety lacking the invariance property present for example in universal formalisms for sequential computing **Vector and Parallel Processing - VECPAR 2000**

Jose M.L.M. Palma,Jack Dongarra,Vicente Hernandez,2003-06-29 This book is the final outcome of VECPAR 2000 4th International Meeting on Vector and Parallel Processing VECPAR constitutes a series of conferences which have been organized by the Faculty of Engineering of the University of Porto since 1993 with the main objective of disseminating new knowledge on parallel computing Readership of This Book The book is aimed at an audience of researchers and graduate students in a broad range of scientific areas including not only computer science but also applied mathematics and numerical analysis physics and engineering Book Plan From a total of 66 papers selected on the basis of extended abstracts for presentation at the conference a subset of 34 papers were chosen during a second review process leading to their inclusion in the book together with the invited talks The book contains a total of 40 papers organized into 6 chapters where each may appeal to people in different but still related scientific areas All chapters with the exception of Chapter 6 are initiated by a short text providing a quick overview of the organization and papers in the chapter The 13 papers in Chapter 1 cover the aspects related to the use of multiple processors Operating systems languages and software tools for scheduling and code transformation are the topics included in this chapter initiated by the talk on computing over the Internet entitled Grid

Computing by Ian Foster **Nature-Inspired Optimization Algorithms** Vasuki A, 2020-05-31 Nature Inspired Optimization Algorithms a comprehensive work on the most popular optimization algorithms based on nature starts with an overview of optimization going from the classical to the latest swarm intelligence algorithm Nature has a rich abundance of flora and fauna that inspired the development of optimization techniques providing us with simple solutions to complex problems in an effective and adaptive manner The study of the intelligent survival strategies of animals birds and insects in a hostile and ever changing environment has led to the development of techniques emulating their behavior This book is a lucid description of fifteen important existing optimization algorithms based on swarm intelligence and superior in performance It is a valuable resource for engineers researchers faculty and students who are devising optimum solutions to any type of problem ranging from computer science to economics and covering diverse areas that require maximizing output and minimizing resources This is the crux of all optimization algorithms Features Detailed description of the algorithms along with pseudocode and flowchart Easy translation to program code that is also readily available in Mathworks website for some of the algorithms Simple examples demonstrating the optimization strategies are provided to enhance understanding Standard applications and benchmark datasets for testing and validating the algorithms are included This book is a reference for undergraduate and post graduate students It will be useful to faculty members teaching optimization It is also a comprehensive guide for researchers who are looking for optimizing resources in attaining the best solution to a problem The nature inspired optimization algorithms are unconventional and this makes them more efficient than their traditional counterparts **Mobile Computing: Concepts, Methodologies, Tools, and Applications** Taniar, David, 2008-11-30 This multiple volume publication advances the emergent field of mobile computing offering research on approaches observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers Provided by publisher *Cognitive Radio Networks Optimization with Spectrum Sensing Algorithms* Tanuja S. Dhope, 2022-09-01 In recent years a considerable amount of effort has been devoted both in industry and academia towards the efficient utilization of the available spectrum under the various propagation models which lead towards the design and dimensioning of the future network Internet of Things IoT This book focuses on Television White Space TVWS opportunities and regulatory aspects for cognitive radio applications and includes case studies for the exploitation of TVWS depending on user s mobility and the geo location between user and the Base Station The book presents recent advances in spectrum sensing reflecting state of the art technology and research achievements in this area as well as a new insights in spectrum sensing of performance modeling analysis and worldwide applications Technical topics discussed include Novel Application of TV White Space Spectrum Sensing in Cognitive Radio Cooperative Spectrum Sensing DoA Estimation Algorithms [InfoWorld](#), 1997-06-09 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Soft Computing: Theories and Applications** Millie

Pant,Tarun K. Sharma,Om Prakash Verma,Rajesh Singla,Afzal Sikander,2020-02-24 The book focuses on soft computing and its applications to solve real world problems in different domains ranging from medicine and health care to supply chain management image processing and cryptanalysis It includes high quality papers presented at the International Conference on Soft Computing Theories and Applications SoCTA 2018 organized by Dr B R Ambedkar National Institute of Technology Jalandhar Punjab India Offering significant insights into soft computing for teachers and researchers alike the book inspires more researchers to work in the field of soft computing *Combating Women's Health Issues with Machine Learning* D.

Hemanth,Meenu Gupta,2023-10-23 The main focus of this book is the examination of women s health issues and the role machine learning can play as a solution to these challenges This book will illustrate advanced innovative techniques frameworks concepts machine learning methodologies enhancing the future healthcare system Combating Women s Health Issues with Machine Learning Challenges and Solutions examines the fundamental concepts and analysis of machine learning algorithms The editors and authors of this book examine new approaches for different age related medical issues that women face Topics range from diagnosing diseases such as breast and ovarian cancer to using deep learning in prenatal ultrasound diagnosis The authors also examine the best machine learning classifier for constructing the most accurate predictive model for women s infertility risk Among the topics discussed are gender differences in type 2 diabetes care and its management as it relates to gender using artificial intelligence The book also discusses advanced techniques for evaluating and managing cardiovascular disease symptoms which are more common in women but often overlooked or misdiagnosed by many healthcare providers The book concludes by presenting future considerations and challenges in the field of women s health using artificial intelligence This book is intended for medical researchers healthcare technicians scientists programmers and graduate level students looking to understand better and develop applications of machine learning deep learning in healthcare scenarios especially concerning women s health conditions

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