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Parallel Computer Architecture Morgan Kaufmann
Intelligent agents are employed as the central characters in this introductory text. Beginning with elementary reactive agents, Nilsson gradually increases their cognitive horsepower to illustrate the most important and lasting ideas in AI. Neural networks, genetic programming, computer vision, heuristic search, knowledge representation and reasoning, Bayes networks, planning, and language understanding are each revealed through the growing capabilities of these agents. A distinguishing feature of this text is in its evolutionary approach to the study of AI. This book provides a refreshing and motivating synthesis of the field by one of AI's master expositors and leading researches. - An evolutionary approach provides a unifying theme - Thorough coverage of important AI ideas, old and new - Frequent use of examples and illustrative diagrams - Extensive coverage of machine learning methods throughout the text - Citations to over 500 references - Comprehensive index
Distributed Systems Addison-Wesley Professional
There is no sorcery to implementing proper information security, and the concepts that are included in this fully updated second edition are not rocket science. Build a concrete foundation in network security by using this hands-on guide. Examine the threats and vulnerabilities of your organization and manage them appropriately. Includes new chapters on firewalls, wireless security, and desktop protection. Plus, plenty of up-to-date information on biometrics, Windows.NET Server, state laws, the U.S. Patriot Act, and more.
Computer Vision: A Modern Approach Gulf Professional Publishing
The new edition of this bestselling title on Distributed Systems has been thoroughly revised throughout to reflect the state of the art in this rapidly developing field. It emphasizes the principles used in the design and construction of distributed computer systems based on networks of workstations and server computers.
Learning to Choose, Choosing to Learn Pearson Education India
Introduces the authors' philosophy of Internet security, explores possible attacks on hosts and networks, discusses firewalls and virtual private networks, and analyzes the state of communication security.
Data Warehousing in the Real World PHI Learning Pvt. Ltd.
This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Artificial Intelligence: Structures and Strategies for Complex Problem Solving is ideal for a one- or two-semester undergraduate course on AI. In this accessible, comprehensive text, George Luger captures the essence of artificial intelligence – solving the complex problems that arise wherever computer technology is applied. Ideal for an undergraduate course in AI, the Sixth Edition presents the fundamental concepts of the discipline first then goes into detail with the practical information necessary to implement the algorithms and strategies discussed. Readers learn how to use a number of different software tools and techniques to address the many challenges faced by today ' s computer scientists.
Practical Parallel Programming John Wiley & Sons
A thorough update to the industry standard for designing, developing, and deploying data warehouse and business intelligence systems The world of data warehousing has changed remarkably since the first edition of The Data Warehouse Lifecycle Toolkit was published in 1998. In that time, the data warehouse industry has reached full maturity and acceptance, hardware and software have made staggering advances, and the techniques promoted in the premiere edition of this book have been adopted by nearly all data warehouse vendors and practitioners. In addition, the term "business intelligence" emerged to reflect the mission of the data warehouse: wrangling the data out of source systems, cleaning it, and delivering it to add value to the business. Ralph Kimball and his colleagues have refined the original set of Lifecycle methods and techniques based on their consulting and training experience. The authors understand first-hand that a data warehousing/business intelligence (DW/BI) system needs to change as fast as its surrounding organization evolves. To that end, they walk you through the detailed steps of designing, developing, and deploying a DW/BI system. You'll learn to create adaptable systems that deliver data and analyses to business users so they can make better business decisions.
The Data Warehouse Lifecycle Toolkit John Wiley & Sons
This edition combines clear explanations of database theory and design with up-to-date coverage of models and real systems. It features excellent examples and access to Addison Wesley's database Web site that includes further teaching, tutorials and many useful student resources.
Master Mind Pencil Puzzles McGraw-Hill Companies
Market_Desc: · Communications Engineers · Network Architects · Network Managers · Consultants · Software Engineers · Senior Undergraduate and Graduate Students Special Features: · Wireless and mobile market is quickly emerging and growing · Network architects and engineers need a comprehensive integration manual · The level and scope of the book is appropriate for decision-makers and network managers · Covers network integration of all 3rd generation mobile and wireless technologies About The Book: This is a comprehensive book that guides the network designers, engineers, managers, and consultants in the rebuilding and successful deployment of the devices over the new network. Dr. Yi-Bing Lin provides the perfect solution through this expansive guide. He is recognized as one of the top experts in mobile and wireless network architectures worldwide and his co-author is recognized as a close second.
Embedded System Design John Wiley & Sons
This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.
Readings in Hardware/Software Co-Design McGraw-Hill Science, Engineering & Mathematics
Database Management Systems provides comprehensive and up-to-date coverage of the fundamentals of database systems. Coherent explanations and practical examples have made this one of the leading texts in the field. The third edition continues in this tradition, enhancing it with more practical material. The new edition has been reorganized to allow more flexibility in the way the course is taught. Now, instructors can easily choose whether they would like to teach a course which emphasizes database application development or a course that emphasizes database systems issues. New overview chapters at the beginning of parts make it possible to skip other chapters in the part if you don't want the detail. More applications and examples have been added throughout the book, including SQL and Oracle examples. The applied flavor is further enhanced by the two new database applications chapters.
Distributed Systems Springer Science & Business Media
Discover the latest trends, developments and technology in information security with Whitman/Mattord's market-leading PRINCIPLES OF INFORMATION SECURITY, 7th Edition. Designed specifically to meet the needs of information systems students like you, this edition's balanced focus addresses all aspects of information security, rather than simply offering a technical control perspective. This overview explores important terms and examines what is needed to manage an effective information security program. A new module details incident response and detection strategies. In addition, current, relevant updates highlight the latest practices in security operations as well as legislative issues, information management toolsets, digital forensics and the most recent policies and guidelines that correspond to federal and international standards. MindTap digital resources offer interactive content to further strength your success as a business decision-maker.
Network Security Pearson Higher Ed
Fuzzy controllers are a class of knowledge based controllers using artificial intelligence techniques with origins in fuzzy logic to compute an appropriate control action. These fuzzy knowledge based controllers can be found either as stand-alone control elements or as integral parts of distributed control systems including conventional controllers in a wide range of industrial process control systems and consumer products. Applications of fuzzy controllers have become a well established practice for Japanese manufacturers of control equipment and systems, and are becoming more and more common for their European and American counterparts. The main aim of this book is to show that fuzzy control is not totally ad hoc, that there exist formal techniques for the analysis of a fuzzy controller, and that fuzzy control can be implemented even when no expert knowledge is available. Thus the book is mainly oriented toward control engineers and theorists rather than fuzzy and non-fuzzy AI people. However, parts can be read without any knowledge of control theory and may be of interest to AI people. The book has six chapters. Chapter 1 introduces two major classes of knowledge based systems for closedloop control. Chapter 2 introduces relevant parts of fuzzy set theory and fuzzy logic. Chapter 3 introduces the principal design parameters of a fuzzy knowledge based controller (FKBC) and discusses their relevance with respect to its performance. Chapter 4 considers an FKBC as a particular type of nonlinear controller. Chapter 5 considers tuning and adaptation of FKBCs, which are nonlinear and so can be designed to cope with a certain amount of nonlinearity. Chapter 6 considers several approaches for stability analysis of FKBCs in the context of classical nonlinear dynamic systems theory.
OPTIMIZATION FOR ENGINEERING DESIGN Elsevier
This book provides a self-contained, compact introduction to fuzzy logic from an applied electronics point of view. It presents fuzzy electronics as a generalization of digital electronics with the goal of making fuzzy logic easily accessible to practicing engineers and students alike.
Data Networks Createspace Independent Publishing Platform
Artificial Intelligence: A Modern Approach offers the most comprehensive, up-to-date introduction to the theory and practice of artificial intelligence. Number one in its field, this textbook is ideal for one or two-semester, undergraduate or graduate-level courses in Artificial Intelligence.
Database System Concepts Addison-Wesley Professional
Data Warehouses are the primary means by which businesses can gain

competitive advantage through analysing and using the information stored in their computerised systems. However, the Data Warehousing market is inundated with confusing, often contradictory, technical information from suppliers of hardware, databases and tools. Data Warehousing in the Real World provides comprehensive guidelines and techniques for the delivery of decision support solutions using open-systems Data Warehouses.Written by practitioners for practitioners Data Warehousing in the Real World describes each stage of the implementation process in detail: from project planning and requirements analysis, through architecture and design to administrative issues such as user access, security, back-up and recovery.Read this book to: - Learn the fundamentals of designing large-scale Data Warehouses using relational technology- Take advantage of product-independent comprehensive guidelines which cover all the issues you need to take into account when planning and building a Data Warehouse- Benefit from the authors' experience distilled into helpful hints and tips- Apply to your own situation with examples of real-life solutions taken from a variety of different business sectors- Make use of the templates for project-plans, system architectures and database designs provided in the appendixAbout the Authors: Sam Anahory is Director for Systems Integration at SHL Systemhouse (UK) where he runs their Data Warehousing practice, delivering Data Warehousing solutions to clients and managing the systems integration required. Prior to this, he built up and ran the Data Warehousing Practice for Oracle Corporation (UK).DennisMurray is a Principal consultant with Oracle Corporation (UK). While through being the Technical Architect for many Data Warehousing solutions, he has accumulated a vast amount of experience on a wide range of hardware platforms.Together they have collaborated on developing and giving training courses, workshops and presentations on the business and technical issues associated with delivering a Data Warehouse.

Principles of Electronics ASCD

This carefully edited book provides a technical introduction to key issues in multimedia, including detailed discussion of new technologies, principles, current research, and future directions. The book covers important interdisciplinary aspects of digital multimedia systems, among them sound and video recording, television engineering, digital signal processing, systems architectures, user interface, and algorithms. Multimedia Systems furnishes a unified treatment of recent developments in the field, bringing together in one volume multimedia elements common to a range of computing areas such as operating systems, database management systems, network communications, and user interface technology. Features Comprehensive overview of fundamental principles and key issues in multimedia computing. Integrated presentation of multimedia technologies and their applications to a variety of settings. Author and contributors are leading researchers in multimedia computing. Large number of illustrations. 0201532581B04062001

Database Management Systems Cambridge, Mass. : MIT Press

This volume is designed to develop an understanding of data networks and evolving integrated networks, and to explore evolving integrated networks and the various analysis and design tools. It begins with an overview of the principles behind data networks, then develops an understanding of the modelling issues and mathematical analysis needed to compare the effectiveness of different networks.

Advanced Concepts in Operating Systems Elsevier

The general response to the first edition of the book was very encouraging.A`uthors feel that their work has been amply rewarded and wish to express their deep sense of gratitude,in general to the large number of readers who have used it,and in particular to those of them who have sent helpful suggestions from time to time for the improvement of the book.The continuous feedback from the readers has helped the authors to make the book more useful.

Fundamentals of Database Systems Addison-Wesley Professional

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Modern Approach To Chemical Calculations An Introduction To The Mole Concept Pearson Higher Ed

Parallel computers have become widely available in recent years. Many scientists are now using them to investigate the grand challenges of science, such as modeling global climate change, determining the masses of elementary particles from first principles, or sequencing the human genome. However, software for parallel computers has developed far more slowly than the hardware. Many incompatible programming systems exist, and many useful programming techniques are not widely known. Practical Parallel Programming provides scientists and engineers with a detailed, informative, and often critical introduction to parallel programming techniques. Following a review of the fundamentals of parallel computer theory and architecture, it describes four of the most popular parallel programming models in use today—data parallelism, shared variables, message passing, and Linda—and shows how each can be used to solve various scientific and numerical problems. Examples, coded in various dialects of Fortran, are drawn from such domains as the solution of partial differential equations, solution of linear equations, the simulation of cellular automata, studies of rock fracturing, and image processing. Practical Parallel Programming will be particularly helpful for scientists and engineers who use high-performance computers to solve numerical problems and do physical simulations but who have little experience of networking or concurrency. The book can also be used by advanced undergraduate and graduate students in computer science in conjunction with material covering parallel architectures and algorithms in more detail. Computer science students will gain a critical appraisal of the current state of the art in parallel programming. Scientific and Engineering Computation series