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Top 20 coding interview problems asked in Google with solutions - Lin Quan 2014-02-07 Must Have for Google Aspirants !!! This book is written for helping people prepare for Google Coding Interview. It contains top 20 programming problems frequently asked @Google with detailed worked-out solutions both in pseudo-code and C++(and C++11). Matching Nuts and Bolts OptimallySearching two-dimensional sorted arrayLowest Common Ancestor(LCA) ProblemMax Sub-Array ProblemCompute Next Higher Number2D Binary SearchString Edit DistanceSearching in Two Dimensional SequenceSelect Kth Smallest ElementSearching in Possibly Empty Two Dimensional SequenceThe Celebrity

ProblemSwitch and Bulb ProblemInterpolation SearchThe Majority ProblemThe Plateau ProblemSegment ProblemsEfficient PermutationThe Non-Crooks ProblemMedian Search ProblemMissing Integer Problem

New Ground - Karen S. Sullenger 2015-05-07

Between 2004 and 2009, university educators, practicing scientists, museum and science-centre personnel, historians, and K-12 teachers in Canada's eastern Atlantic provinces came together as a research community to investigate informal learning in science, technology, and mathematics. The interdisciplinary collaboration, known as CRYSTAL Atlantique, was sponsored by Canada's National Science and Engineering Research Council. In this volume, the CRYSTAL participants look back on their collective experience and describe research projects that pushed the boundaries of informal teaching and learning. Those projects include encounters between students and practicing scientists in university laboratories and field studies; summer camps for science engagement; after-school science clubs for teachers and students; innovative software for computer assisted learning; environmental problem-solving in a comparative, international context; online communities devoted to solving mathematical problems; and explorations of ethonomathematics among Canadian aboriginal peoples. The editors and contributors stress the need for research on informal learning to be informed continuously by a notion of science as culture, and they analyze the forms of resistance that studies of informal learning frequently encounter. Above all, they urge a more central place for informal science learning in the larger agenda of educational research today.

Distributed Computing - Cyril Gavoille 2016-09-05

This book constitutes the proceedings of the 30th International Symposium on Distributed Computing, DISC 2016, held in Paris, France, in September 2016. The 32 full papers, 10 brief

annoucements and 3 invited lectures presented in this volume were carefully reviewed and selected from 145 submissions.The focus of the conference is on following topics: theory, design, implementation, modeling, analysis, or application of distributed systems and networks.

Templates for the Solution of Algebraic Eigenvalue Problems - Zhaojun Bai 2000-01-01
Mathematics of Computing -- Numerical Analysis.

Management and Leadership for Nurse Administrators - Linda Roussel 2006
Designed for the management and development of professional nurses, this text provides management concepts and theories, giving professional administrators theoretical and practical knowledge, enabling them to maintain morale, motivation, and productivity. Organized around the four management functions of Planning, Organizing, Leadership, and Evaluation, it includes new chapters on total quality management, the theory of human resource development, and collective bargaining. Additionally, content has been added to include recommendations from the work of the Institute of Medicine and the Magnet Appraisal process.

Knowledge, Information and Creativity Support Systems: Recent Trends, Advances and Solutions - Andrzej M.J. Skulimowski 2016-02-25
This volume contains some carefully selected papers presented at the 8th International Conference on Knowledge, Information and Creativity Support Systems KICCS’2013, which was held in Kraków and Wieliczka, Poland in November 2013. In most cases the papers are extended versions with newer results added, representing virtually all topics covered by the conference. The KICCS’2013 focus theme, “Looking into the Future of Creativity and Decision Support Systems”, clearly indicates that the growing complexity calls for some deeper and insightful discussions about the

future but, obviously, complemented with an exposition of modern present developments that have proven their power and usefulness. Following this theme, the list of topics presented in this volume include some future-oriented fields of research, such as anticipatory networks and systems, foresight support systems, relevant newly-emerging applications, exemplified by autonomous creative systems. Special attention was also given to cognitive and collaborative aspects of creativity.

Optimization Techniques - L. R. Foulds 2012-12-06

Optimization is the process by which the optimal solution to a problem, or optimum, is produced. The word optimum has come from the Latin word optimus, meaning best. And since the beginning of his existence Man has strived for that which is best. There has been a host of contributions, from Archimedes to the present day, scattered across many disciplines. Many of the earlier ideas, although interesting from a theoretical point of view, were originally of little practical use, as they involved a daunting amount of com putational effort. Now modern computers perform calculations, whose time was once estimated in man-years, in the figurative blink of an eye. Thus it has been worthwhile to resurrect many of these earlier methods. The advent of the computer has helped bring about the unification of optimization theory into a rapidly growing branch of applied mathematics. The major objective of this book is to provide an introduction to the main optimization tech niques which are at present in use. It has been written for final year undergrad uates or first year graduates studying mathematics, engineering, business, or the physical or social sciences. The book does not assume much mathemati cal knowledge. It has an appendix containing the necessary linear algebra and basic calculus, making it virtually self-contained. This text evolved out of the experience of teaching the material to finishing

undergraduates and beginning graduates.

Artificial Intelligence: How Computers Think - Kawal Arora 2020-10-02

We have seen lots of books, blogs, YouTube channels, and other resources on Artificial Intelligence. We decided to write this book because there are very few of them on the internet that connects essential learning to industry requirements. After experiencing various shades of academia and industry, we thought of bringing our experience for others.

Sustaining a Culture of Process Control and Continuous Improvement - Philip J. Gisi 2018-05-16

This comprehensive book presents a methodology for continuous process improvement in a structured, logical, and easily understandable framework based on industry accepted tools, techniques, and practices. It begins by explaining the conditions necessary for establishing a stable and capable process and the actions required to maintain process control, while setting the stage for sustainable efficiency improvements driven by waste elimination and process flow enhancement. This structured approach makes a clear connection between the need for a quality process to serve as the foundation for incremental efficiency improvements. This book moves beyond talking about the value contribution of tools and techniques for process control and continuous improvement by focusing on the daily work routines necessary to maintain and sustain these activities as part of a lean process and management mindset. Part 1 discusses process quality improvement with an understanding of variation and its impact on process performance. It continues by stressing the importance of standardizing a process to achieve process stability. Once process stability is reflected in a consistent and predictable output, attention is turned to ensuring the process is capable of consistently meeting customer requirements. This series of activities sets the foundation for

process control and the sustainable pursuit of efficiency improvements. Part 2 focuses on efficiency improvement by eliminating waste while improving process flow using proven tools and methods. Although there is a clear relationship between waste elimination and process flow, these activities are discussed separately to allow those more interested in waste elimination to work independently from those looking to optimize value stream flow. Part 3 explores the principles, practices, systems, and behaviors required to maintain process control while creating a mindset of continuous incremental improvement. It considers the role organizational structure, discipline, and accountability play as essential components for long term operational success. This book will: Provide readers with a clear roadmap for establishing, achieving, and maintaining process control as the foundation upon which to pursue efficiency improvements. Establish direction and methods for continuous and sustainable process improvement Define the practices, systems, and behaviors required to realize desired results and develop a culture of process control and continuous improvement along the road to operational excellence.

Design of Modern Heuristics - Franz Rothlauf 2011-07-17

Most textbooks on modern heuristics provide the reader with detailed descriptions of the functionality of single examples like genetic algorithms, genetic programming, tabu search, simulated annealing, and others, but fail to teach the underlying concepts behind these different approaches. The author takes a different approach in this textbook by focusing on the users' needs and answering three fundamental questions: First, he tells us which problems modern heuristics are expected to perform well on, and which should be left to traditional optimization methods. Second, he teaches us to systematically design the "right" modern heuristic for a particular problem by providing a

coherent view on design elements and working principles. Third, he shows how we can make use of problem-specific knowledge for the design of efficient and effective modern heuristics that solve not only small toy problems but also perform well on large real-world problems. This book is written in an easy-to-read style and it is aimed at students and practitioners in computer science, operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use. This book is written in an easy-to-read style and it is aimed at students and practitioners in computer science, operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use. This book is written in an easy-to-read style and it is aimed at students and practitioners in computer science, operations research and information systems who want to understand modern heuristics and are interested in a guide to their systematic design and use.

Essential Algorithms - Rod Stephens 2013-07-25 A friendly and accessible introduction to the most useful algorithms Computer algorithms are the basic recipes for programming. Professional programmers need to know how to use algorithms to solve difficult programming problems. Written in simple, intuitive English, this book describes how and when to use the most practical classic algorithms, and even how to create new algorithms to meet future needs. The book also includes a collection of questions that can help readers prepare for a programming job interview. Reveals methods for manipulating common data structures such as arrays, linked lists, trees, and networks Addresses advanced data structures such as heaps, 2-3 trees, B-trees Addresses general problem-solving techniques such as branch and bound, divide and conquer, recursion, backtracking, heuristics, and more Reviews sorting and searching, network algorithms, and

numerical algorithms Includes general problem-solving techniques such as brute force and exhaustive search, divide and conquer, backtracking, recursion, branch and bound, and more In addition, Essential Algorithms features a companion website that includes full instructor materials to support training or higher ed adoptions.

Artificial Neural Nets and Genetic Algorithms - Andrej Dobnikar 2012-12-06

From the contents: Neural networks – theory and applications: NNs (= neural networks) classifier on continuous data domains– quantum associative memory – a new class of neuron-like discrete filters to image processing – modular NNs for improving generalisation properties – presynaptic inhibition modelling for image processing application – NN recognition system for a curvature primal sketch – NN based nonlinear temporal-spatial noise rejection system – relaxation rate for improving Hopfield network – Oja's NN and influence of the learning gain on its dynamics Genetic algorithms – theory and applications: transposition: a biological-inspired mechanism to use with GAs (= genetic algorithms) – GA for decision tree induction – optimising decision classifications using GAs – scheduling tasks with intertask communication onto multiprocessors by GAs – design of robust networks with GA – effect of degenerate coding on GAs – multiple traffic signal control using a GA – evolving musical harmonisation – niched-penalty approach for constraint handling in GAs – GA with dynamic population size – GA with dynamic niche clustering for multimodal function optimisation Soft computing and uncertainty: self-adaptation of evolutionary constructed decision trees by information spreading – evolutionary programming of near optimal NNs

Financial Management Theory, Problems and Solutions - Palanivelu V.R.

The coverage of this book is very comprehensive, and it will serve as concise

guide to a wide range of areas that are relevant to the Finance field. The book contain 25 chapters and also number of real life financial problems in the Indian context in addition to the illustrative problems.

Intelligence Science III - Zhongzhi Shi 2021-04-14

This book constitutes the refereed post-conference proceedings of the 4th International Conference on Intelligence Science, ICIS 2020, held in Durgapur, India, in February 2021 (originally November 2020). The 23 full papers and 4 short papers presented were carefully reviewed and selected from 42 submissions. One extended abstract is also included. They deal with key issues in brain cognition; uncertain theory; machine learning; data intelligence; language cognition; vision cognition; perceptual intelligence; intelligent robot; and medical artificial intelligence.

Engineering and Management of IT-based Service Systems - Manuel Mora 2013-10-19

Intelligent Decision-Making Support Systems (i-DMSS) are specialized IT-based systems that support some or several phases of the individual, team, organizational or inter-organizational decision making process by deploying some or several intelligent mechanisms. This book pursues the following academic aims: (i) generate a compendium of quality theoretical and applied contributions in Intelligent Decision-Making Support Systems (i-DMSS) for engineering and management IT-based service systems (ITSS); (ii) diffuse scarce knowledge about foundations, architectures and effective and efficient methods and strategies for successfully planning, designing, building, operating, and evaluating i-DMSS for ITSS, and (iii) create an awareness of, and a bridge between ITSS and i-DMSS academicians and practitioners in the current complex and dynamic engineering and management ITSS organizational. The book presents a collection of 11 chapters referring to relevant topics for both

IT service systems and i-DMSS including: problems of selection of IT service providers, optimization of supply chain systems, IT governance decisions, clinical decision support, dynamic user-interface adaptation, re-engineering of processes, and generic decision problems. Advanced IT technologies used in some chapters are: fuzzy multi-criteria mechanisms, semantic processing, data mining processing, and rough sets. Other chapters report traditional DSS mechanisms but used or suggested to be used in innovative mode for IT service engineering and management tasks.

Artificial Intelligence Problems and Their Solutions - Danny Kopec 2014-04-15

This book lends insight into solving some well-known AI problems using the most efficient methods by humans and computers. The book discusses the importance of developing critical-thinking methods and skills, and develops a consistent approach toward each problem: 1) a precise description of a well-known AI problem coupled with an effective graphical representation; 2) discussion of possible approaches to solving each problem; 3) identifying and presenting the best known human solution to each problem; 4) evaluation and discussion of the Human Window aspects for the best solution; 5) a playability site where students can exercise the process of developing their solutions, as well as “experiencing” the best solution; 6) code or pseudo-code implementing the solution algorithm, and 7) academic references for each problem. Features: Addresses AI problems well known to computer science and mathematics students from a number of perspectives Covers classic AI problems such as Twelve Coins, Red Donkey, Cryptarithms, Rubik’s Cube, Missionaries/Cannibals, Knight’s Tour, Monty Hall, and more Includes a companion CD-ROM with source code, solutions, figures, and more Includes playability sites where students can exercise the process of developing their

solutions Describes problem-solving methods which may be applied to many problem situations

Business Statistics: Problems & Solutions - Sharma J.K.

This book meets the specific and complete requirements of students pursuing MBA/PGDBM, B.Com., M.Com., MA(Eco), CA, ICWA, BBA, BIS/BIT/BCA, etc., courses, who need to understand the basic concepts of business statistics and apply results directly to real-life business problems. The book also suits the requirements of students who need practical knowledge of the subject, as well as for those preparing for competitive examinations.

Hybrid Architectures for Intelligent Systems - Abraham Kandel 2020-09-10

Hybrid architecture for intelligent systems is a new field of artificial intelligence concerned with the development of the next generation of intelligent systems. This volume is the first book to delineate current research interests in hybrid architectures for intelligent systems. The book is divided into two parts. The first part is devoted to the theory, methodologies, and algorithms of intelligent hybrid systems. The second part examines current applications of intelligent hybrid systems in areas such as data analysis, pattern classification and recognition, intelligent robot control, medical diagnosis, architecture, wastewater treatment, and flexible manufacturing systems. Hybrid Architectures for Intelligent Systems is an important reference for computer scientists and electrical engineers involved with artificial intelligence, neural networks, parallel processing, robotics, and systems architecture.

Encyclopedia of Business Analytics and Optimization - Wang, John 2014-02-28

As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia

of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

Decision Trees for Decision Making - John F. Magee 1964

Creative Ways to Teach the Mysteries of History - Ronald Hans Pahl 2005-10-01

This volume makes teaching and learning history a powerful and enjoyable experience for students in the classroom through the study of historical mysteries, a wide variety of active ideas, and how-to-do-it brainstorms.

Healthcare Informatics - Stephan P. Kudyba 2010-04-26

Healthcare Informatics: Improving Efficiency and Productivity examines the complexities involved in managing resources in our healthcare system and explains how management theory and informatics applications can increase efficiencies in various functional areas of healthcare services. Delving into data and project management and advanced analytics, this book details and provides supporting evidence for the strategic concepts that are critical to achieving successful healthcare information technology (HIT), information management, and electronic health record (EHR) applications. This includes the vital importance of involving nursing staff in rollouts, engaging physicians early in any process, and developing a more receptive organizational culture to digital information and systems adoption. We owe it to ourselves and future generations to do all we can to make our healthcare systems work smarter, be more

effective, and reach more people. The power to know is at our fingertips; we need only embrace it. —From the foreword by James H. Goodnight, PhD, CEO, SAS Bridging the gap from theory to practice, it discusses actual informatics applications that have been incorporated by various healthcare organizations and the corresponding management strategies that led to their successful employment. Offering a wealth of detail, it details several working projects, including: A computer physician order entry (CPOE) system project at a North Carolina hospital E-commerce self-service patient check-in at a New Jersey hospital The informatics project that turned a healthcare system's paper-based resources into digital assets Projects at one hospital that helped reduce excesses in length of stay, improved patient safety; and improved efficiency with an ADE alert system A healthcare system's use of algorithms to identify patients at risk for hepatitis Offering the guidance that healthcare specialists need to make use of various informatics platforms, this book provides the motivation and the proven methods that can be adapted and applied to any number of staff, patient, or regulatory concerns.

Methodologies For The Conception, Design, And Application Of Intelligent Systems - Proceedings Of The 4th International Conference On Soft Computing (In 2 Volumes) - Matsumoto Gen 1996-08-31

IIZUKA '96, the 4th International Conference on Soft Computing, emphasized the integration of the components of soft computing to promote the research work on post-digital computers and to realize the intelligent systems. At the conference, new developments and results in soft computing were introduced and discussed by researchers from academic, governmental, and industrial institutions.This volume presents the opening lectures by Prof. Lotfi A. Zadeh and Prof. Walter J. Freeman, the plenary lectures by seven eminent researchers, and about 200 carefully selected papers drawn from more than

20 countries. It documents current research and in-depth studies on the conception, design, and application of intelligent systems.

Parallel Problem Solving from Nature – PPSN XVI - Thomas Bäck 2020-09-02

This two-volume set LNCS 12269 and LNCS 12270 constitutes the refereed proceedings of the 16th International Conference on Parallel Problem Solving from Nature, PPSN 2020, held in Leiden, The Netherlands, in September 2020. The 99 revised full papers were carefully reviewed and selected from 268 submissions. The topics cover classical subjects such as automated algorithm selection and configuration; Bayesian- and surrogate-assisted optimization; benchmarking and performance measures; combinatorial optimization; connection between nature-inspired optimization and artificial intelligence; genetic and evolutionary algorithms; genetic programming; landscape analysis; multiobjective optimization; real-world applications; reinforcement learning; and theoretical aspects of nature-inspired optimization.

Automata, Languages and Programming - Thomas Ottmann 1987-07-08

This volume contains the proceedings of the 14th International Colloquium on Automata Languages and Programming, organized by the European Association for Theoretical Computer Science (EATCS) and held in Karlsruhe, July 13-17, 1987. The papers report on original research in theoretical computer science and cover topics such as algorithms and data structures, automata and formal languages, computability and complexity theory, semantics of programming languages, program specification, transformation and verification, theory of data bases, logic programming, theory of logical design and layout, parallel and distributed computation, theory of concurrency, symbolic and algebraic computation, term rewriting systems, cryptography, and theory of robotics. The authors are young scientists and

leading experts in these areas.

Foundations for Population Health in Community/Public Health Nursing - E-Book - Marcia Stanhope 2021-10-08

Master the essentials of health promotion in community and public health nursing! Foundations for Population Health in Community/Public Health Nursing, 6th Edition provides clear, concise coverage of the nurse's role in preventing disease, promoting health, and providing health education in community settings. Case studies and critical thinking activities make it easier to apply concepts to community nursing practice. New to this edition are Healthy People 2030 guidelines and coverage of the latest issues, trends, and approaches. Written by well-known nursing educators Marcia Stanhope and Jeanette Lancaster, this streamlined text covers the fundamentals of designing effective nursing strategies for vulnerable and special populations. Focus on health promotion throughout the text emphasizes initiatives, strategies, and interventions that promote the health of the community. QSEN boxes illustrate how quality and safety goals, competencies, objectives, knowledge, skills, and attitudes can be applied in nursing practice in the community. Levels of Prevention boxes identify specific nursing interventions at the primary, secondary, and tertiary levels, reinforcing the concept of prevention as it relates to community and public health care. Applying Content to Practice boxes highlight how chapter content is applied to nursing practice in the community. Practice Application scenarios present practice situations with questions and answers to help you apply concepts to community practice. Genomics coverage provides a history of genetics and genomics and how they impact public/community health nursing care. Coverage of ongoing health care reform issues includes the impact of the Patient Protection and Affordable Care Act of 2010 (ACA) on public

health nursing. Evidence-Based Practice boxes highlight current research findings, their application to practice, and how community/public health nurses can apply the study results. NEW! COVID-19 pandemic information has been added. NEW! Healthy People 2030 objectives are highlighted throughout the book, addressing the health priorities and emerging health issues expected in the next decade. NEW! Updated content and figures reflect the most current data, issues, trends, and practices. NEW! Expanded Check Your Practice boxes use Clinical Judgment (Next Generation NCLEX®) steps to guide your thinking about practice scenarios.

Analysis of Images, Social Networks and Texts - Wil M. P. van der Aalst 2020-02-01
This book constitutes the proceedings of the 8th International Conference on Analysis of Images, Social Networks and Texts, AIST 2019, held in Kazan, Russia, in July 2019. The 24 full papers and 10 short papers were carefully reviewed and selected from 134 submissions (of which 21 papers were rejected without being reviewed). The papers are organized in topical sections on general topics of data analysis; natural language processing; social network analysis; analysis of images and video; optimization problems on graphs and network structures; analysis of dynamic behaviour through event data.

Decision Theory Models for Applications in Artificial Intelligence: Concepts and Solutions - Sucar, L. Enrique 2011-10-31
One of the goals of artificial intelligence (AI) is creating autonomous agents that must make decisions based on uncertain and incomplete information. The goal is to design rational agents that must take the best action given the information available and their goals. Decision Theory Models for Applications in Artificial Intelligence: Concepts and Solutions provides an introduction to different types of decision theory techniques, including MDPs, POMDPs, Influence Diagrams, and Reinforcement Learning, and

illustrates their application in artificial intelligence. This book provides insights into the advantages and challenges of using decision theory models for developing intelligent systems.

The Biosphere, Problems and Solutions - 2011-09-22

The Biosphere, Problems and Solutions

Problems in Operation Research (Principles & Solution) - D S Hira 1991

We take great pleasure in presenting to the readers the second throughly revised edition of the book after a number of reprints.The suggestions received from the readers have been carefully incorporated in this edition and almost the entire subject matter has been reorganised,revised and rewritten.

Systematic Introduction to Expert Systems - Frank Puppe 2012-12-06

At present one of the main obstacles to a broader application of expert systems is the lack of a theory to tell us which problem-solving methods areavailable for a given problem class. Such a theory could lead to significant progress in the following central aims of the expert system technique: - Evaluating the technical feasibility of expert system projects: This depends on whether there is a suitable problem-solving method, and if possible a corresponding tool, for the given problem class. - Simplifying knowledge acquisition and maintenance: The problem-solving methods provide direct assistance as interpretation models in knowledge acquisition. Also, they make possible the development of problem-specific expert system tools with graphical knowledge acquisition components, which can be used even by experts without programming experience. - Making use of expert systems as a knowledge medium: The structured knowledge in expert systems can be used not only for problem solving but also for knowledge communication and tutorial purposes. With such a theory in mind, this book provides a systematic introduction to expert systems. It describes the basic knowledge

representations and the present situation with regard tothe identification, realization, and integration of problem-solving methods for the main problem classes of expert systems: classification (diagnostics), construction, and simulation.

UAV Cooperative Decision and Control - Tal Shima 2009

Unmanned aerial vehicles (UAVs) are increasingly used in military missions because they have the advantages of not placing human life at risk and of lowering operation costs via decreased vehicle weight. These benefits can be fully realized only if UAVs work cooperatively in groups with an efficient exchange of information. This book provides an authoritative reference on cooperative decision and control of UAVs and the means available to solve problems involving them.

Theory and Practice of Cryptography Solutions for Secure Information Systems - Elçi, Atilla 2013-05-31

Information Systems (IS) are a nearly omnipresent aspect of the modern world, playing crucial roles in the fields of science and engineering, business and law, art and culture, politics and government, and many others. As such, identity theft and unauthorized access to these systems are serious concerns. Theory and Practice of Cryptography Solutions for Secure Information Systems explores current trends in IS security technologies, techniques, and concerns, primarily through the use of cryptographic tools to safeguard valuable information resources. This reference book serves the needs of professionals, academics, and students requiring dedicated information systems free from outside interference, as well as developers of secure IS applications. This book is part of the Advances in Information Security, Privacy, and Ethics series collection.

Power System Restoration - M. M. Adibi 2000-06-22

"At a time when bulk power systems operate

close to their design limits, the restructuring of the electric power industry has created vulnerability to potential blackouts. Prompt and effective power system restoration is essential for the minimization of downtime and costs to the utility and its customers, which mount rapidly after a system blackout. Power System Restoration meets the complex challenges that arise from the dynamic capabilities of new technology in areas such as large-scale system analysis, communication and control, data management, artificial intelligence, and allied disciplines. It provides an up-to-date description of the restoration methodologies and implementation strategies practiced internationally. The book opens with a general overview of the restoration process and then covers: * Techniques used in restoration planning and training * Knowledge-based systems as operational aids in restoration * Issues associated with hydro and thermal power plants * High and extra-high voltage transmission systems * Restoration of distribution systems Power System Restoration is essential reading for all power system planners and operating engineers in the power industry. It is also a valuable reference for researchers, practicing power engineers, and engineering students." Sponsored by: IEEE Power Engineering Society

Leadership and Nursing Care Management - Jean Nagelkerk 2005-11-01

This Study Guide corresponds to the new 3rd edition of Huber: Leadership and Nursing Care Management. Chapter summariesLearning Tools, such as individual and group activities and case studiesLearning ResourcesDiscussion questions (short answer)Study questions (true/false, multiple-choice, matching)Supplemental ReadingsAnswers to Chapter Study Questions This Study Guide corresponds to the new 3rd edition of Huber: Leadership and Nursing Care Management.

Encyclopedia of Data Warehousing and Mining,

Second Edition - Wang, John 2008-08-31
There are more than one billion documents on the Web, with the count continually rising at a pace of over one million new documents per day. As information increases, the motivation and interest in data warehousing and mining research and practice remains high in organizational interest. The Encyclopedia of Data Warehousing and Mining, Second Edition, offers thorough exposure to the issues of importance in the rapidly changing field of data warehousing and mining. This essential reference source informs decision makers, problem solvers, and data mining specialists in business, academia, government, and other settings with over 300 entries on theories, methodologies, functionalities, and applications.
Approximation, Randomization and Combinatorial Optimization. Algorithms and Techniques - Ashish Goel 2008-08-28
This volume contains the papers presented at the 11th International Wo- shop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2008) and the 12th International Workshop on Randomization and Computation (RANDOM 2008), which took place concurrently at the MIT (M- sachusetts Institute of Technology) in Boston, USA, during August 25–27, 2008. APPROX focuses on algorithmic and complexity issues surrounding the development of e?cient approximate solutions to computationally di?cult problems, and was the 11th in the series after Aalborg (1998), Berkeley (1999), Saarbru¨cken (2000), Berkeley (2001), Rome (2002), Princeton (2003), Cambridge (2004), Berkeley (2005), Barcelona (2006), and Princeton (2007). RANDOM is concerned with applications of randomness to computational and combinatorial problems, and was the 12th workshop in the series following Bologna (1997), Barcelona (1998), Berkeley (1999), Geneva (2000), Berkeley (2001), Harvard (2002), Princeton (2003), Cambridge (2004), Berkeley (2005), Barcelona (2006), and

Princeton (2007). Topics of interest for APPROX and RANDOM are: design and analysis of - proximation algorithms, hardness of approximation, small space, sub-linear time, streaming, algorithms, embeddings and metric space methods, mathematical programming methods, combinatorial problems in graphs and networks, game t- ory, markets, economic applications, geometric problems, packing, covering, scheduling, approximate learning, design and analysis of randomized algorithms, randomized complexity theory, pseudorandomness and derandomization, random combinatorial structures, random walks/Markov chains, expander graphs and randomness extractors, probabilistic proof systems, random projections and - beddings, error-correcting codes, average-case analysis, property testing, com- tational learning theory, and other applications of approximation and randomness.

Advanced Manufacturing and Automation VIII - Kesheng Wang 2018-12-14

This proceeding is a compilation of selected papers from the 8th International Workshop of Advanced Manufacturing and Automation (IWAMA 2018), held in Changzhou, China on September 25 - 26, 2018. Most of the topics are focusing on novel techniques for manufacturing and automation in Industry 4.0 and smart factory. These contributions are vital for maintaining and improving economic development and quality of life. The proceeding will assist academic researchers and industrial engineers to implement the concepts and theories of Industry 4.0 in industrial practice, in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factory.

Scalable, Integrated Solutions for Elastic Caching Using IBM WebSphere eXtreme Scale - Priyanka Arora 2011-04-25

IBM® WebSphere eXtreme Scale provides a powerful, elastic, high-performance solution for

scalability issues through caching and grid technology. This IBM Redbooks® publication shows architects and IT personnel how to leverage the power of WebSphere eXtreme Scale technology to enhance data caching performance in their enterprise networks. This book discusses the scalability challenges and solutions facing today's dynamic business and IT environments. Topics discussed include existing scalability solutions, how WebSphere eXtreme Scale can be integrated into these solutions, and best practices for using WebSphere eXtreme Scale in different environments, including application data caching and database caching. Also included is an in-depth discussion of the WebSphere eXtreme Scale infrastructure, such as grid clients and servers, the grid catalog service, zone support, and scalability sizing considerations. This book focuses on the challenges and benefits of integrating WebSphere eXtreme Scale with other middleware products, including WebSphere® Business Events, WebSphere Commerce, WebSphere Portal, and Rational® JazzTM-based products. Detailed procedures for integrating, configuring, and monitoring WebSphere eXtreme Scale in WebSphere Portal and WebSphere Commerce environments are provided.

Decision Tree and Ensemble Learning Based on Ant Colony Optimization - Jan Kozak 2018-06-20

This book not only discusses the important topics in the area of machine learning and combinatorial optimization, it also combines them into one. This was decisive for choosing the material to be included in the book and determining its order of presentation. Decision trees are a popular method of classification as well as of knowledge representation. At the same time, they are easy to implement as the building blocks of an ensemble of classifiers. Admittedly, however, the task of constructing a near-optimal decision tree is a very complex process. The good results typically achieved by

the ant colony optimization algorithms when dealing with combinatorial optimization problems suggest the possibility of also using that approach for effectively constructing decision trees. The underlying rationale is that both problem classes can be presented as graphs. This fact leads to option of considering a larger spectrum of solutions than those based on the heuristic. Moreover, ant colony optimization algorithms can be used to advantage when building ensembles of classifiers. This book is a combination of a research monograph and a textbook. It can be used in graduate courses, but is also of interest to researchers, both specialists in machine learning and those applying machine learning methods to cope with problems from any field of R&D.