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The Publishers Weekly - 1906

Computing Handbook, Third Edition - Teofilo Gonzalez 2014-05-07
Computing Handbook, Third Edition: Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.
Foundations of Data Science - Avrim Blum 2020-01-23
This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.
Artificial Intelligence Abstracts - 1989

Automata, Languages and Programming - Fernando Orejas 2003-05-15
This book constitutes the refereed proceedings of the 28th International

Colloquium on Automata, Languages and Programming, ICALP 2001, held in Crete, Greece in July 2001. four invited papers were carefully reviewed and selected from a total of 208 submissions. complexity, algorithm analysis, approximation and optimization, complexity, concurrency, efficient data structures, graph algorithms, language theory, codes and automata, model checking and protocol analysis, networks and routing, reasoning and verification, scheduling, secure computation, specification and deduction, and structural complexity.

Current Index to Journals in Education, Semi-Annual Cumulation, January-June - 1978-09

Current Index to Journals in Education, Semi-Annual Cumulation, July-December, 1977 - 1978-03

Serials Holdings - Linda Hall Library 1989

Bayesian and grAphical Models for Biomedical Imaging - M. Jorge Cardoso 2014-09-22

This book constitutes the refereed proceedings of the First International Workshop on Bayesian and grAphical Models for Biomedical Imaging, BAMBI 2014, held in Cambridge, MA, USA, in September 2014 as a satellite event of the 17th International Conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2014. The 11 revised full papers presented were carefully reviewed and selected from numerous submissions with a key aspect on probabilistic modeling applied to medical image analysis. The objectives of this workshop compared to other workshops, e.g. machine learning in medical imaging, have a stronger mathematical focus on the foundations of probabilistic modeling and inference. The papers highlight the potential of using Bayesian or random field graphical models for advancing scientific research in biomedical image analysis or for the advancement of modeling and analysis of medical imaging data.

Boolean Functions - Yves Crama 2011-05-16

Written by prominent experts in the field, this monograph provides the first comprehensive, unified presentation of the structural, algorithmic and applied aspects of the theory of Boolean functions. The book focuses on algebraic representations of Boolean functions, especially disjunctive and conjunctive normal form representations. This framework looks at the fundamental elements of the theory (Boolean equations and satisfiability problems, prime implicants and associated short representations, dualization), an in-depth study of special classes of Boolean functions (quadratic, Horn, shellable, regular, threshold, read-once functions and their characterization by functional equations) and two fruitful generalizations of the concept of Boolean functions (partially defined functions and pseudo-Boolean functions). Several topics are presented here in book form for the first time. Because of the depth and breadth and its emphasis on algorithms and applications, this monograph will have special appeal for researchers and graduate students in discrete mathematics, operations research, computer science, engineering and economics.

Inter-Domain Management - Arosha K. Bandara 2007-06-11

This book constitutes the refereed proceedings of the First International Conference on Autonomous Infrastructure, Management and Security, AIMS 2007, held in Oslo, Norway in June 2007. It covers scalable network management, inter-domain concepts, promises and ubiquitous management, autonomous infrastructure and security, management models, policy interactions, security management, logic and validation, and networks.

Mechanical Engineering Science Monograph - 1965

Advances in Computer Science and Information Engineering - David Jin 2012-05-11

CSIE2012 is an integrated conference concentrating its focus on Computer Science and Information Engineering . In the proceeding, you can learn much more knowledge about Computer Science and Information Engineering of researchers from all around the world. The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned fields. In order to meet

the high quality of Springer, AISC series, the organization committee has made their efforts to do the following things. Firstly, poor quality paper has been refused after reviewing course by anonymous referee experts. Secondly, periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions. Finally, the conference organizers had several preliminary sessions before the conference. Through efforts of different people and departments, the conference will be successful and fruitful.
Scientific and Technical Aerospace Reports - 1994

Current Index to Journals in Education - 1991

Serials Currently Received by the National Agricultural Library, 1974 - National Agricultural Library (U.S.) 1974

Serials Currently Received by the National Agricultural Library, 1975 - National Agricultural Library (U.S.) 1976

Art of Doing Science and Engineering - Richard R. Hamming 2003-12-16
Highly effective thinking is an art that engineers and scientists can be taught to develop. By presenting actual experiences and analyzing them as they are described, the author conveys the developmental thought processes employed and shows a style of thinking that leads to successful results is something that can be learned. Along with spectacular successes, the author also conveys how failures contributed to shaping the thought processes. Provides the reader with a style of thinking that will enhance a person's ability to function as a problem-solver of complex technical issues. Consists of a collection of stories about the author's participation in significant discoveries, relating how those discoveries came about and, most importantly, provides analysis about the thought processes and reasoning that took place as the author and his associates progressed through engineering problems.
Statistics and Probability for Engineering Applications - William DeCoursey 2003-05-14
Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory
Technical Abstract Bulletin - 1965

Theory of Computation and Application (2nd Revised Edition) - S. R. Jena 2020-03-27
About the Book: This book is intended for the students who are pursuing courses in B.Tech/B.E. (CSE/IT), M.Tech/M.E. (CSE/IT), MCA and M.Sc (CS/IT). The book covers different crucial theoretical aspects such as of Automata Theory, Formal Language Theory, Computability Theory and Computational Complexity Theory and their applications. This book can

be used as a text or reference book for a one-semester course in theory of computation or automata theory. It includes the detailed coverage of Introduction to Theory of Computation Essential Mathematical Concepts Finite State Automata Formal Language & Formal Grammar Regular Expressions & Regular Languages Context-Free Grammar Pushdown Automata Turing Machines Recursively Enumerable & Recursive Languages Complexity Theory Key Features: « Presentation of concepts in clear, compact and comprehensible manner « Chapter-wise supplement of theorems and formal proofs « Display of chapter-wise appendices with case studies, applications and some pre-requisites « Pictorial two-minute drill to summarize the whole concept « Inclusion of more than 200 solved with additional problems « More than 130 numbers of GATE questions with their keys for the aspirants to have the thoroughness, practice and multiplicity « Key terms, Review questions and Problems at chapter-wise termination What is New in the 2nd Edition?? « Introduction to Myhill-Nerode theorem in Chapter-3 « Updated GATE questions and keys starting from the year 2000 to the year 2018 «Practical Implementations through JFLAP Simulator About the Authors: Soumya Ranjan Jena is the Assistant Professor in the School of Computing Science and Engineering at Galgotias University, Greater Noida, U.P., India. Previously he has worked at GITA, Bhubaneswar, Odisha, K L Deemed to be University, A.P and AKS University, M.P, India. He has more than 5 years of teaching experience. He has been awarded M.Tech in IT, B.Tech in CSE and CCNA. He is the author of Design and Analysis of Algorithms book published by University Science Press, Laxmi Publications Pvt. Ltd, New Delhi. Santosh Kumar Swain, Ph.D, is an Professor in School of Computer Engineering at KIIT Deemed to be University, Bhubaneswar, Odisha. He has over 23 years of experience in teaching to graduate and post-graduate students of computer engineering, information technology and computer applications. He has published more than 40 research papers in International Journals and Conferences and one patent on health monitoring system.

Biotechnology in Agriculture, 1986-May 1992 - Charles N. Bebee 1992

Cognitive Informatics, Computer Modelling, and Cognitive Science - G. R. Sinha 2020-04-08

Cognitive Informatics, Computer Modelling, and Cognitive Science: Volume Two, Application to Neural Engineering, Robotics, and STEM presents the practical, real-world applications of Cognitive Science to help readers understand how it can help them in their research, engineering and academic pursuits. The book is presented in two volumes, covering Introduction and Theoretical Background, Philosophical and Psychological Theory, and Cognitive Informatics and Computing. Volume Two includes Statistics for Cognitive Science, Cognitive Applications and STEM Case Studies. Other sections cover Cognitive Informatics, Computer Modeling and Cognitive Science: Application to Neural Engineering, Robotics, and STEM. The book's authors discuss the current status of research in the field of Cognitive Science, including cognitive language processing that paves the ways for developing numerous tools for helping physically challenged persons, and more. Identifies how foundational theories and concepts in cognitive science are applicable in other fields Includes a comprehensive review of cognitive science applications in multiple domains, applying it to neural engineering, robotics, computer science and STEM Presents basic statistics and cognitive maps, testing strategies of hypothesis, maximum likelihood estimator, Bayesian statistics, and discrete probability models of neural computation Contains in-depth technical coverage of cognitive applications and case studies, including neuro-computing, brain modeling, cognitive ability and cognitive robots

Neutrosophic Sets and Systems: An International Book Series in Information Science and Engineering, vol. 25 / 2019 - Florentin Smarandache

“Neutrosophic Sets and Systems” has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Mechanical Engineering Principles - John Bird 2012-05-04

"Mechanical Engineering Principles offers a student-friendly introduction to core engineering topics that does not assume any previous background in engineering studies, and as such can act as a core textbook for several engineering courses. Bird and Ross introduce mechanical principles and technology through examples and applications rather than theory. This approach enables students to develop a sound understanding of the engineering principles and their use in practice. Theoretical concepts are supported by over 600 problems and 400 worked answers. The new edition will match up to the latest BTEC National specifications and can also be used on mechanical engineering courses from Levels 2 to 4"--

Risk, Environment and Modernity - Scott Lash 1996-01-31

This wide-ranging and accessible contribution to the study of risk, ecology and environment helps us to understand the politics of ecology and the place of social theory in making sense of environmental issues. The book provides insights into the complex dynamics of change in `risk societies′.

Resources in Education - 1998-05

Building Science N3 - Bekker 1998-12

Mathematics in Berlin - Heinrich Begehr 1998-07-21

This little book is conceived as a service to mathematicians attending the 1998 International Congress of Mathematicians in Berlin. It presents a comprehensive, condensed overview of mathematical activity in Berlin, from Leibniz almost to the present day (without, however, including biographies of living mathematicians). Since many towering figures in mathematical history worked in Berlin, most of the chapters of this book are concise biographies. These are held together by a few survey articles presenting the overall development of entire periods of scientific life at Berlin. Overlaps between various chapters and differences in style between the chap ters were inevitable, but sometimes this provided opportunities to show different aspects of a single historical event - for instance, the Kronecker-Weierstrass con troversy. The book aims at readability rather than scholarly completeness. There are no footnotes, only references to the individual bibliographies of each chapter. Still, we do hope that the texts brought together here, and written by the various authors for this volume, constitute a solid introduction to the history of Berlin mathematics.

Serials Holdings in the Linda Hall Library - Linda Hall Library 1986

Directory of Associations in Canada - 1997

Fundamentals of Nuclear Science and Engineering Second Edition - J. Kenneth Shultis 2007-09-07

Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation.An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

Advances and Innovations in Systems, Computing Sciences and Software Engineering - Khaled Elleithy 2007-08-28
This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computing Sciences, Software Engineering and Systems. The book presents selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006). All aspects of the conference were managed on-line.
Recent Advances in Engineering Science - Society of Engineering Science 1968

Proceedings of the ... Annual Meeting of the Society of Engineering Science - Society of Engineering Science 1968

Serials Holdings in the Linda Hall Library, April 1, 1968 - Linda Hall Library 1968*

Agricultural Libraries Information Notes - 1984-08

Geographic Index of Environmental Articles -

Semantic Web Technologies - Archana Patel 2022-10-17
Semantic web technologies (SWTs) offer the richest machine-interpretable (rather than just machine-processable) and explicit semantics that are being extensively used in various domains and industries. This book provides a roadmap for semantic web technologies (SWTs) and highlights their role in a wide range of domains including cloud computing, Internet of Things, big data, sensor network, and so forth. It also explores the prospects of these technologies including different data interchange formats, query languages, ontologies, Linked Data, and notations. The role of SWTs in 'epidemic Covid-19', 'e-learning platforms and systems', 'block chain', 'open online courses', and 'visual analytics in healthcare' is described as well. This book: Explores all the critical aspects of semantic web technologies (SWTs) Discusses the impact of SWTs on cloud computing, Internet of Things, big data, and sensor network Offers a comprehensive examination of the emerging research in the areas of SWTs and their related domains Provides a template to develop a wide range of smart and intelligent applications Includes latest applications and examples with real data This book is aimed at researchers and graduate students in computer science, informatics, web technology, cloud computing, and Internet of Things.
Digital Twin Technologies and Smart Cities - Maryam Farsi 2019-07-22
This book provides a holistic perspective on Digital Twin (DT) technologies, and presents cutting-edge research in the field. It assesses the opportunities that DT can offer for smart cities, and covers the requirements for ensuring secure, safe and sustainable smart cities. Further, the book demonstrates that DT and its benefits with regard to: data visualisation, real-time data analytics, and learning leading to improved confidence in decision making; reasoning, monitoring and warning to support accurate diagnostics and prognostics; acting using edge control and what-if analysis; and connection with back-end business applications hold significant potential for applications in smart cities, by employing a wide range of sensory and data-acquisition systems in various parts of the urban infrastructure. The contributing authors reveal how and why DT technologies that are used for monitoring, visualising, diagnosing and predicting in real-time are vital to cities' sustainability and efficiency. The concepts outlined in the book represents a city together with all of its infrastructure elements, which communicate with each other in a complex manner. Moreover, securing Internet of Things (IoT) which is one of the key enablers of DT's is discussed in details and from various perspectives. The book offers an outstanding reference guide for practitioners and researchers in manufacturing, operations research and communications, who are considering digitising some of their assets and related services. It is also a valuable asset for graduate students and academics who are looking to identify research gaps and develop their own proposals for further research.