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Edge Edge

Ensheng Dong



Edge Edge:

Database Systems for Advanced Applications Sang-goo Lee,Zhiyong Peng,Xiaofang Zhou,Yang-Sae Moon,Rainer Unland,Jaesoo Yoo,2012-04-05 This two volume set LNCS 7238 and LNCS 7239 constitutes the refereed proceedings of the 17th International Conference on Database Systems for Advanced Applications DASFAA 2012 held in Busan South Korea in April 2012 The 44 revised full papers and 8 short papers presented together with 2 invited keynote papers 8 industrial papers 8 demo presentations 4 tutorials and 1 panel paper were carefully reviewed and selected from a total of 159 submissions The topics covered are query processing and optimization data semantics XML and semi structured data data mining and knowledge discovery privacy and anonymity data management in the Web graphs and data mining applications temporal and spatial data top k and skyline query processing information retrieval and recommendation indexing and search systems cloud computing and scalability memory based query processing semantic and decision support systems social data data mining

Smart Manufacturing Factory Jiafu Wan,Baotong Chen,Shiyong Wang,2023-12-28 Artificial Intelligence AI technologies enable manufacturing systems to sense the environment adapt to external needs and extract process knowledge including business models such as intelligent production networked collaboration and extended service models This book therefore focuses on the implementation of AI in customized manufacturing CM The main topics include edge intelligence in manufacturing heterogeneous networks intelligent fault diagnosis and maintenance dynamic resource scheduling in manufacturing and the construction mode of the smart factory Based on the insights of CM and AI the authors demonstrate the implementation of AI in the smart factory for CM including architecture information fusion data analysis dynamic scheduling flexible production line construction and smart manufacturing services This book will provide important research content for scholars in artificial intelligence smart manufacturing machine learning multi agent systems and industrial Internet of Things

Edge Detection Methods Based on Generalized Type-2 Fuzzy Logic Claudia I. Gonzalez,Patricia Melin,Juan R. Castro,Oscar Castillo,2017-03-05 In this book four new methods are proposed In the first method the generalized type 2 fuzzy logic is combined with the morphological gradient technique The second method combines the general type 2 fuzzy systems GT2 FSs and the Sobel operator in the third approach the methodology based on Sobel operator and GT2 FSs is improved to be applied on color images In the fourth approach we proposed a novel edge detection method where a digital image is converted a generalized type 2 fuzzy image In this book it is also included a comparative study of type 1 interval type 2 and generalized type 2 fuzzy systems as tools to enhance edge detection in digital images when used in conjunction with the morphological gradient and the Sobel operator The proposed generalized type 2 fuzzy edge detection methods were tested with benchmark images and synthetic images in a grayscale and color format Another contribution in this book is that the generalized type 2 fuzzy edge detector method is applied in the preprocessing phase of a face recognition system where the recognition system is based on a monolithic neural network The aim of this part of the

book is to show the advantage of using a generalized type 2 fuzzy edge detector in pattern recognition applications The main goal of using generalized type 2 fuzzy logic in edge detection applications is to provide them with the ability to handle uncertainty in processing real world images otherwise to demonstrate that a GT2 FS has a better performance than the edge detection methods based on type 1 and type 2 fuzzy logic systems *Introduction to the Finite Element Method and Implementation with MATLAB®* Gang Li, 2020-07-30 Connecting theory with numerical techniques using MATLAB this practical textbook equips students with the tools required to solve finite element problems This hands on guide covers a wide range of engineering problems through nine well structured chapters including solid mechanics heat transfer and fluid dynamics equilibrium steady state and transient and 1 D 2 D and 3 D problems Engineering problems are discussed using case study examples which are solved using a systematic approach both by examining the steps manually and by implementing a complete MATLAB code This topical coverage is supplemented by discourse on meshing with a detailed explanation and implementation of 2 D meshing algorithms Introducing theory and numerical techniques alongside comprehensive examples this text increases engagement and provides students with the confidence needed to implement their own computer codes to solve given problems Real-Time Collision Detection Christer Ericson, 2004-12-22 Written by an expert in the game industry Christer Ericson's new book is a comprehensive guide to the components of efficient real time collision detection systems The book provides the tools and know how needed to implement industrial strength collision detection for the highly detailed dynamic environments of applications such as 3D games virtual reality applications and physical simulators Of the many topics covered a key focus is on spatial and object partitioning through a wide variety of grids trees and sorting methods The author also presents a large collection of intersection and distance tests for both simple and complex geometric shapes Sections on vector and matrix algebra provide the background for advanced topics such as Voronoi regions Minkowski sums and linear and quadratic programming Of utmost importance to programmers but rarely discussed in this much detail in other books are the chapters covering numerical and geometric robustness both essential topics for collision detection systems Also unique are the chapters discussing how graphics hardware can assist in collision detection computations and on advanced optimization for modern computer architectures All in all this comprehensive book will become the industry standard for years to come Introduction to Game Physics with Box2D Ian Parberry, 2017-09-29 Written by a pioneer of game development in academia Introduction to Game Physics with Box2D covers the theory and practice of 2D game physics in a relaxed and entertaining yet instructional style It offers a cohesive treatment of the topics and code involved in programming the physics for 2D video games Focusing on writing elementary game physics code the first half of the book helps you grasp the challenges of programming game physics from scratch without libraries or outside help It examines the mathematical foundation of game physics and illustrates how it is applied in practice through coding examples The second half of the book shows you how to use Box2D a popular open source 2D game physics engine A

companion website provides supplementary material including source code and videos This book helps you become a capable 2D game physics programmer through its presentation of both the theory and applications of 2D game physics After reading the book and experimenting with the code samples you will understand the basics of 2D game physics and know how to use Box2D to make a 2D physics based game

Proceedings of the Indiana Academy of Science Indiana Academy of Science,1910

Metrological Infrastructure Beat Jeckelmann,Robert Edelmaier,2023-07-24 Metrology is part of the essential but largely hidden infrastructure of the modern world This book concentrates on the infrastructure aspects of metrology It introduces the underlying concepts International system of units traceability and uncertainty and describes the concepts that are implemented to assure the comparability reliability and quantifiable trust of measurement results It is shown what benefits the traditional metrological principles have in fields as medicine or in the evaluation of cyber physical systems

Classic Computer Science Problems in Java David Kopec,2020-12-21 Sharpen your coding skills by exploring established computer science problems Classic Computer Science Problems in Java challenges you with time tested scenarios and algorithms Summary Sharpen your coding skills by exploring established computer science problems Classic Computer Science Problems in Java challenges you with time tested scenarios and algorithms You ll work through a series of exercises based in computer science fundamentals that are designed to improve your software development abilities improve your understanding of artificial intelligence and even prepare you to ace an interview As you work through examples in search clustering graphs and more you ll remember important things you ve forgotten and discover classic solutions to your new problems Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Whatever software development problem you re facing odds are someone has already uncovered a solution This book collects the most useful solutions devised guiding you through a variety of challenges and tried and true problem solving techniques The principles and algorithms presented here are guaranteed to save you countless hours in project after project About the book Classic Computer Science Problems in Java is a master class in computer programming designed around 55 exercises that have been used in computer science classrooms for years You ll work through hands on examples as you explore core algorithms constraint problems AI applications and much more What s inside Recursion memoization and bit manipulation Search graph and genetic algorithms Constraint satisfaction problems K means clustering neural networks and adversarial search About the reader For intermediate Java programmers About the author David Kopec is an assistant professor of Computer Science and Innovation at Champlain College in Burlington Vermont Table of Contents 1 Small problems 2 Search problems 3 Constraint satisfaction problems 4 Graph problems 5 Genetic algorithms 6 K means clustering 7 Fairly simple neural networks 8 Adversarial search 9 Miscellaneous problems 10 Interview with Brian Goetz

Combinatorial Optimization and Applications Zhao Zhang,Lidong Wu,Wen Xu,Ding-Zhu Du,2014-11-13 This book constitutes the refereed proceedings of the 8th International Conference on Combinatorial Optimization and Applications

COCOA 2014 held on the island of Maui Hawaii USA in December 2014 The 56 full papers included in the book were carefully reviewed and selected from 133 submissions Topics covered include classic combinatorial optimization geometric optimization network optimization optimization in graphs applied optimization CSoNet and complexity cryptography and games

MEDINFO 2023 — The Future Is Accessible Jen Bichel-Findlay, Paula Otero, Philip Scott, Elaine Huesing, 2024-04-15 Science fiction author William Gibson is famously quoted as saying The future is already here it s just not very evenly distributed During the Covid pandemic telehealth and remote monitoring were elevated from interesting innovations to essential tools in many healthcare systems but not all countries had the infrastructure necessary to pivot quickly amply demonstrating the negative consequences of the digital divide This book presents the proceedings of MedInfo 2023 the 19th World Congress on Medical and Health Informatics held from 8 12 July 2023 in Sydney Australia This series of biennial conferences provides a platform for the discussion of applied approaches to data information knowledge and wisdom in health and wellness The theme and title of MedInfo 2023 was The Future is Accessible but the digital divide is a major concern for health and care informatics professionals whether because of global economic disparities digital literacy gaps or limited access to reliable information about health A total of 935 submissions were received for the conference of which 228 full papers 43 student papers and 117 posters were accepted following a thorough peer review process involving 279 reviewers Topics covered include information and knowledge management quality safety and outcomes health data science human organizational and social aspects and global health informatics Significant advances in artificial intelligence machine learning augmented reality virtual reality and genomics hold great hope for future healthcare planning delivery management education evaluation and research and this book will be of interest to all those working to not only exploit the benefits of these technologies but also to identify ways to overcome their associated challenges

The Image Processing Handbook John C. Russ, F. Brent Neal, 2018-09-03 Consistently rated as the best overall introduction to computer based image processing The Image Processing Handbook covers two dimensional 2D and three dimensional 3D imaging techniques image printing and storage methods image processing algorithms image and feature measurement quantitative image measurement analysis and more Incorporating image processing and analysis examples at all scales from nano to astro this Seventh Edition Features a greater range of computationally intensive algorithms than previous versions Provides better organization more quantitative results and new material on recent developments Includes completely rewritten chapters on 3D imaging and a thoroughly revamped chapter on statistical analysis Contains more than 1700 references to theory methods and applications in a wide variety of disciplines Presents 500 entirely new figures and images with more than two thirds appearing in color The Image Processing Handbook Seventh Edition delivers an accessible and up to date treatment of image processing offering broad coverage and comparison of algorithms approaches and outcomes

Artificial Intelligence and Industrial Applications Tawfik Masrour, Ibtissam El Hassani, Nouredine Barka, 2023-09-14 Amid the dynamic growth of artificial

intelligence this book presents a collection of findings and advancements from the second edition of the A2IA Artificial Intelligence and Industrial Applications conference The conference hosted by ENSAM Mekn s at Moulay Ismail University Morocco fosters knowledge exchange in AI focusing primarily on its industrial applications Covering a wide range of topics the book highlights the adaptable nature of AI and its increasing impact on industrial sectors It brings together contributions from an international cohort of researchers discussing themes such as intelligent manufacturing and maintenance intelligent supply chain management various modes of learning including supervised unsupervised reinforcement semi supervised and graph based as well as neural networks deep learning planning and optimization A defining feature of this edition is its extensive scope and emphasis on the practical applications of AI along with its foundational elements It facilitates an understanding of AI s current state and potential future direction showcasing recent developments that bridge the gap between theory and practice Designed for a diverse readership this book is of interest to AI practitioners academics and enthusiasts as well as to those new to the field It provides an opportunity to explore AI s critical role in industrial applications and the practical insights it offers are likely to be beneficial for decision making within industrial settings *Dictionary of*

Mathematics Dr. Rajesh Kumar Thakur,2024-07-03 This book is an essential reference guide for anyone involved in the field of mathematics including students teachers professionals and enthusiasts It serves as a comprehensive resource offering clear and concise definitions for a wide range of mathematical terms concepts theorems and formulas The book covers various branches of mathematics such as algebra geometry number theory probability and statistics Each entry is carefully written to provide a thorough understanding of the term accompanied by practical examples illustrations and cross references to related concepts The book also includes an appendix with useful mathematical tables formulas and constants making it a comprehensive resource for all your mathematical requirements Whether you are tackling a challenging problem exploring a new concept or simply wanting to deepen your understanding of mathematics this book is an invaluable companion New Learning Composite Mathematics 6 S.K. Gupta & Anubhuti Gangal, MAT000000 BISAC MAT008000

BISAC Inline! William Nealy,2023-05-23 Laugh while you learn basic and advanced techniques for inline skating and rollerblading from an expert and renowned cartoonist William Nealy revolutionized learning how to inline skate Whether you re a rank beginner or a skating pro William s Inline educates and entertains like no other how to manual you ve ever read His hard earned crash and burn skating experience four dimensional drawings and twisted sense of humor give you the most comprehensive easy to understand and detailed book on skating ever written Inline teaches you everything you need to know to become a seasoned blader from taking your first baby steps on blades to more advanced skills such as getting air descending stairs expert turning techniques and more Inline also includes chapters on how skates work skate maintenance safety and all the important body armor Finally Inline teaches you the many ways to stop or safely fall while you re climbing the learning curve All of this is delivered in William s hilarious accessible cartoon style Inside you ll find Entertaining and

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Radio Tracking and Animal Populations Joshua Millsaugh,John M. Marzluff,2001-08-14 Radio Tracking and Animal Populations is a succinct synthesis of emerging technologies and their applications to the empirical and theoretical problems of population assessment The book is divided into sections designed to encompass the various aspects of animal ecology that may be evaluated using radiotelemetry technology experimental design equipment and technology animal movement resource selection and demographics Wildlife biologists at the leading edge of new developments in the technology and its application have joined forces FST TCS 2003: Foundations of Software Technology and Theoretical Computer Science Paritosh K Pandya,Jaikumar Radhakrishnan,2003-11-24 This book constitutes the refereed proceedings of the 23rd Conference on Foundations of Software Technology and Theoretical Computer Science FST TCS 2003 held in Mumbai India in December 2003 The 23 revised full papers presented together with 4 invited papers and the abstract of an invited paper were carefully reviewed and selected from 160 submissions A broad variety of current topics from the theory of computing are addressed ranging from algorithmics and discrete mathematics to logics and programming theory **5G Verticals** Rath Vannithamby,Anthony Soong,2020-04-20 A comprehensive text to an understanding the next generation mobile broadband and wireless Internet of Things IoT technologies 5G Verticals brings together in one comprehensive volume a group of visionaries and technical experts from academia and industry The expert authors discuss the applications and technologies that comprise 5G verticals The earlier network generations 2G to 4G were designed as on size fits all general purpose connectivity platforms with limited differentiation capabilities 5G networks have the capability to demand customizable mobile networks and create an ecosystem for technical and business innovation involving vertical markets such as automotive healthcare manufacturing energy food and agriculture city management government public transportation media and more 5G will serve a large portfolio of applications with various requirements ranging from high reliability to ultra low latency going through high bandwidth and mobility In this book the authors explore applications and usages of various 5G

verticals including a set of key metrics for these uses and their corresponding target requirements The book also examines the potential network architectures and enabling technologies to meet the requirements of 5G verticals This important book Offers a comprehensive resource to the promise of 5G Verticals Provides a set of key metrics for the uses and target requirements Contains illustrative examples of the technology and applications Includes contributions from experts in the field and professionals that developed the 5G standards Provides an analysis of specific vertical industries which have the potential to be among the first industries to use 5G Written for industry practitioners engineers and researchers 5G Verticals discusses the technology that enables the 5G system to be flexibly deployed and scaled

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