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Mathematical Reviews - 2002

Nature-Inspired Optimizers -

Seyedali Mirjalili 2019-02-01

This book covers the

conventional and most recent theories and applications in the area of evolutionary algorithms, swarm intelligence, and meta-heuristics. Each

chapter offers a comprehensive description of a specific algorithm, from the mathematical model to its practical application. Different kind of optimization problems are solved in this book, including those related to path planning, image processing, hand gesture detection, among others. All in all, the book offers a tutorial on how to design, adapt, and evaluate evolutionary algorithms. Source codes for most of the proposed techniques have been included as supplementary materials on a dedicated webpage.

Open Data Structures - Pat Morin 2013

Introduction -- Array-based lists -- Linked lists -- Skiplists -- Hash tables -- Binary trees -- Random binary search trees -- Scapegoat trees -- Red-black trees -- Heaps -- Sorting algorithms -- Graphs -- Data structures for integers -- External memory searching.

Women's Livelihood Rights -

Sumi Krishna 2007-09-18

This interdisciplinary book looks at women`s natural

resource-based livelihoods in the wider context of development viewed through the lens of citizenship rights. Unravelling the patriarchal social fabric and policy structures in India, it argues that the concept of citizenship needs to be extended to include recognition of ways of life and livelihood, so that women take their legitimate space as productive human beings, entitled to dignity as a political right, and not merely to protection and welfare. The editor weaves together a historical perspective on varied dimensions of livelihood, development and citizenship. Drawing upon rich field-based researches in 13 states across India, the authors deal with complex and inter-related themes: the need to recognise women`s right to resources and their livelihood and employment strategies; the challenges of democratic governance and of restructuring institutional systems to make them responsive; and the role of women`s collective agency in

development. Reflecting upon and critically analysing context-specific issues in several less-studied locations, the book shows that there is much to be learnt from empathetic interaction with the collective struggles of poor women, and from action and dialogue on the ground. Further, it suggests that feminist politics has to network strategically with other struggles to counter the resistance of traditional and contemporary patriarchal structures, and to work towards recasting citizenship for a gender-just development that ensures women`s livelihood rights.

College Algebra Revathi Narasimhan 2009-07-10

Based on years of experience teaching and writing supplemental materials for more traditional precalculus books, Reva Narasimhan takes a functions-focused approach to teaching and learning algebra and trigonometry concepts. This new series builds up relevant concepts using functions as a unifying

theme, repeating and expanding on connections to basic functions. Visualization and analysis motivate the functions-based approach, enabling users to better retain the material for use in later calculus courses.

Index Medicus- 2003

Fundamentals of Data Structures in C++ - Ellis Horowitz 1995-02-15

[Official Gazette of the United States Patent and Trademark Office](#) - United States. Patent and Trademark Office 2000

Index of Patents Issued from the United States Patent and Trademark Office - 1993

How to Solve it by Computer - Dromey 2008

Matrix Analysis of Structures - Aslam Kassimali 2011-01-01

This book takes a fresh, student-oriented approach to teaching the material covered in the senior- and first-year

graduate-level matrix structural analysis course. Unlike traditional texts for this course that are difficult to read, Kassimali takes special care to provide understandable and exceptionally clear explanations of concepts, step-by-step procedures for analysis, flowcharts, and interesting and modern examples, producing a technically and mathematically accurate presentation of the subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Giardia and Cryptosporidium - M. G. Ortega-Pierres
2009-01-01

Giardia and Cryptosporidium are both parasites of considerable global interest due to the gastrointestinal problems the organisms can cause in humans as well as domestic and wild animals. This book presents a comprehensive overview of recent research. Chapters discuss topics from taxonomy, nomenclature and evolution to

molecular epidemiology, advances in diagnostics and zoonotic, human and animal health issues.

Advanced Microbiology For Sustainable Agriculture, Volume II- Ying Ma
2022-10-19

Advances in Parallel Computing Technologies and Applications - D.J. Hemanth
2021-11-25

Recent developments in parallel computing mean that the use of machine learning techniques and intelligence to handle the huge volume of available data have brought the faster solutions offered by advanced technologies to various fields of application. This book presents the proceedings of the Virtual International Conference on Advances in Parallel Computing Technologies and Applications (ICAPTA 2021), hosted in Justice Basheer Ahmed Sayeed College for women (formerly "S.I.E.T Women's College"), Chennai, India, and held online as a

virtual event on 15 and 16 April 2021. The aim of the conference was to provide a forum for sharing knowledge in various aspects of parallel computing in communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It also provided a platform for scientists, researchers, practitioners and academicians to present and discuss the most recent innovations and trends, as well as the concerns and practical challenges encountered in this field. Included here are 52 full length papers, selected from over 100 submissions based on the reviews and comments of subject experts. Topics covered include parallel computing in communication, machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects. Providing an overview of the latest developments in the field, the book will be of interest to all

those whose work involves the use of parallel computing technologies.

Medicinal & Aromatic Plants Abstracts 1986

Applied Edge AI - Pethuru Raj
2022-04-06

The strategically sound combination of edge computing and artificial intelligence (AI) results in a series of distinct innovations and disruptions enabling worldwide enterprises to visualize and realize next-generation software products, solutions and services. Businesses, individuals, and innovators are all set to embrace and experience the sophisticated capabilities of Edge AI. With the faster maturity and stability of Edge AI technologies and tools, the world is destined to have a dazzling array of edge-native, people-centric, event-driven, real-time, service-oriented, process-aware, and insights-filled services. Further on, business workloads and IT services will become competent and cognitive with state-of-the-art Edge AI

infrastructure modules, AI algorithms and models, enabling frameworks, integrated platforms, accelerators, high-performance processors, etc. The Edge AI paradigm will help enterprises evolve into real-time and intelligent digital organizations. Applied Edge AI: Concepts, Platforms, and Industry Use Cases focuses on the technologies, processes, systems, and applications that are driving this evolution. It examines the implementation technologies; the products, processes, platforms, patterns, and practices; and use cases. AI-enabled chips are exclusively used in edge devices to accelerate intelligent processing at the edge. This book examines AI toolkits and platforms for facilitating edge intelligence. It also covers chips, algorithms, and tools to implement Edge AI, as well as use cases. FEATURES The opportunities and benefits of intelligent edge computing Edge architecture and infrastructure AI-enhanced analytics in an edge

environment Encryption for securing information An Edge AI system programmed with Tiny Machine learning algorithms for decision making An improved edge paradigm for addressing the big data movement in IoT implementations by integrating AI and caching to the edge Ambient intelligence in healthcare services and in development of consumer electronic systems Smart manufacturing of unmanned aerial vehicles (UAVs) AI, edge computing, and blockchain in systems for environmental protection Case studies presenting the potential of leveraging AI in 5G wireless communication

ENGLISH LANGUAGE LABORATORIES - NIRA KONAR 2011-07-30

Today, acquiring English language skills has become so essential, especially for those who are looking for new jobs in reputed organizations as well as for the practising professionals. Many engineering students, even though they have adequate

knowledge of their subject, are unable to express themselves well in English. Taking this into account, engineering colleges/institutes have introduced exclusive English Language Laboratories where students are drilled in the practical aspects of the English language. This compact and comprehensive book is a step-by-step practical guide to students, telling them how to prepare technical reports and how to acquire the basic communication skills—listening, speaking, reading and writing. The book deals with conversation, situational dialogues and role plays, and Group Discussions (GDs). It also gives detailed discussion about Interviews—step-by-step preparation, practical and psychological preparation, the dos and don'ts for interview—besides dealing with different kinds of interviews: telephonic, videoconferencing, and others. In addition, the text stresses the importance of researching the organization, and salary

negotiations. Finally, the book shows the students how to make powerpoint presentations (PPTs), the structure of presentation and using audio visuals. This activity based, skill-oriented, learner centred book is designed according to the WBUT syllabus on Technical Report Writing and Language Laboratory Practice for the B.Tech. students. However, it would be equally useful for B.Tech./B.E. students across the country.

DISTINGUISHING FEATURES

: A practical and student friendly text, the stress being on the functional aspects of the language and various activities for acquiring the language. Gives the Methodology of conducting activities such as GDs, Interviews and Presentation. Provides model GD topics and the step-by-step process of making PPTs. Clearly spells out all the details, right from preparing a good job application, researching the company (including its financial health), to preparing the job portfolio, to wearing the proper dress,

handling questions, and negotiating salary. Provides an extensive list of probable questions along with their answers to prepare students for mock interviews. Also gives well-crafted questions at the end of each lesson.

Cyanobact eri a- A.K. Mishra
2018-11-30

Cyanobacteria constitute the most widely distributed group of photosynthetic prokaryotes found in almost all realms of the earth and play an important role in Earth's nitrogen and carbon cycle. The gradual transformation from reducing atmosphere to oxidizing atmosphere was a turning point in the evolutionary history of the earth and made conditions for present life forms possible. Cyanobacteria: From Basic Science to Applications is the first reference volume that comprehensively discusses all aspects of cyanobacteria, including the diverse mechanisms of cyanobacteria for the advancement of cyanobacterial abilities, towards higher biofuel

productivity, enhanced tolerance to environmental stress and bioactive compounds and potential for biofertilizers. Describes cyanobacterial diversity, stress biology, and biotechnological aspects of cyanobacteria. Explores the global importance of cyanobacteria. Provides a broad compilation of research that deals with cyanobacterial stress responses in both controlled laboratory conditions as well as in their natural environment.

IBSS: Economics: 2002

Vol.51 - Compiled by the

British Library of Political and Economic Science 2013-05-13

First published in 1952, the International Bibliography of the Social Sciences

(anthropology, economics, political science, and sociology)

is well established as a major bibliographic reference for students, researchers and librarians in the social sciences worldwide. Key features *

Authority: Rigorous standards are applied to make the IBSS the most authoritative selective bibliography ever produced.

Articles and books are selected on merit by some of the world's most expert librarians and academics. *Breadth: today the IBSS covers over 2000 journals - more than any other comparable resource. The latest monograph publications are also included.

*International Coverage: the IBSS reviews scholarship published in over 30 languages, including publications from Eastern Europe and the developing world. *User friendly organization: all non-English titles are word sections. Extensive author, subject and place name indexes are provided in both English and French. Place your standing order now for the 2003 volumes of the the IBSS
Anthropology: 2002 Vol.48
December 2003: 234x156: Hb: 0-415-32634-6: £195.00
Economics: 2002 Vol.51
December 2003: 234x156: Hb: 0-415-32635-4: £195.00
Political Science: 2002 Vol.51
December 2003: 234x156: Hb: 0-415-32636-2: £195.00
Sociology: 2002 Vol.52

December 2003: 234x156: Hb: 0-415-32637-0: £195.00
Soft Computing for Problem Solving - Jagdish Chand Bansal
2018-12-14

This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms,

genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

Computational Vision and Bio Inspired Computing - D.

Jude Hemanth 2018-02-19
This is the proceedings of the International Conference On Computational Vision and Bio Inspired Computing (ICCVBIC 2017) held at RVS Technical Campus, September 21-22, 2017. It includes papers on state of the art innovations in bio-inspired computing applications, where new algorithms and results are produced and described. Additionally, this volume addresses evolutionary computation paradigms, artificial neural networks and

biocomputing. It focuses mainly on research based on visual interference on the basis of biological images.

Computation of data sources also plays a major role in routine day-to-day life for the purposes such as video transmission, wireless applications, fingerprint recognition and processing, big data intelligence, automation, human centric recognition systems. With the advantage of processing bio-inspired computations, a variety of computational paradigms can be processed. Finally, this book also treats the formation of neural networks by enabling local connectivity within it with the aid of vision sensing elements. The work also provides potential directions for future research.

Guide to Indian Periodical Literature - 2004

Understanding and Modelling Hydrogen Bonding in Liquid Water - Revati Kumar 2007

Progress in Adhesion and Adhesives, Volume 6 - K. L.

Mittal 2021-08-24

With the voluminous research being published, it is difficult, if not impossible, to stay abreast of current developments in a given area. The review articles in this book consolidate information to provide an alternative way to follow the latest research activity and developments in adhesion science and adhesives. With the ever-increasing amount of research being published, it is a Herculean task to be fully conversant with the latest research developments in any field, and the arena of adhesion and adhesives is no exception. Thus, topical review articles provide an alternate and very efficient way to stay abreast of the state-of-the-art in many subjects representing the field of adhesion science and adhesives. The 19 chapters in this Volume 6 follow the same order as the review articles originally published in RAA in the year 2020 and up to June 2021. The subjects of these 19 chapters fall in the following areas: Adhesives and adhesive

joints Contact angle Reinforced polymer composites Bioadhesives Icephobic coatings Adhesives based on natural resources Polymer surface modification Superhydrophobic surfaces The topics covered include: hot-melt adhesives; adhesively-bonded spar-wingskin joints; contact angle hysteresis; fiber/matrix adhesion in reinforced thermoplastic composites; bioadhesives in biomedical applications; mucoadhesive pellets for drug delivery applications; bio-inspired icephobic coatings; wood adhesives based on natural resources; adhesion in biocomposites; vacuum UV surface photo-oxidation of polymers and other materials; vitrimers and their relevance to adhesives; superhydrophobic surfaces by microtexturing; structural acrylic adhesives; mechanically durable water-repellent surfaces; mussel-inspired underwater adhesives; and cold atmospheric pressure plasma technology for modifying polymers. Audience This book will be valuable and

useful to researchers and technologists in materials science, nanotechnology, physics, surface and colloid chemistry in multiple disciplines in academia, industry, various research institutes and other organizations.

Official Gazette of the United States Patent and Trademark Office - 2001

World Who Is Who and Does What in Environment and Conservation - Nicholas Polunin 2013-11-05

Qaidu (1236-1301), one of the great rebels in the history of the Mongol Empire, was the grandson of Ogedei, the son Genghis Khan had chosen to be his heir. This boof recounts the dynastic convolutions and power struggle leading up to his rebellion and subsequent events.

MATRIX METHODS OF STRUCTURAL ANALYSIS - C. NATARAJAN 2014-01-20

Designed as a textbook for the undergraduate students of civil engineering and postgraduate students of structural

engineering, this comprehensive book presents the fundamental aspects of matrix analysis of structures. The basic features of Matrix Structural Analysis along with its intricacies in application to actual problems backed up by numerical examples, form the main objective of writing this book. The text begins with the chapters on basics of matrices and structural systems. After providing the foundation for matrix structural representation, the text moves onto dimensional and behavioral aspects of structural systems to classify into pin-jointed systems, then onto beams and finally three-dimensional rigid jointed systems. The text concludes with a chapter on special techniques in using matrices for structural analysis. Besides, MATLAB codes are given at the end to illustrate interfacing with standard computing tool. A large number of numerical examples are given in each chapter which will reinforce the understanding of the subject matter.

Beyond Databases, Architectures and Structures. Paving the Road to Smart Data Processing and Analysis
Stanisław Kozielski 2019-05-07
This book constitutes the refereed proceedings of the 15th International Conference entitled Beyond Databases, Architectures and Structures, BDAS 2019, held in Ustroń, Poland, in May 2019. It consists of 26 carefully reviewed papers selected from 69 submissions. The papers are organized in topical sections, namely big data and cloud computing; architectures, structures and algorithms for efficient data processing and analysis; artificial intelligence, data mining and knowledge discovery; image analysis and multimedia mining; bioinformatics and biomedical data analysis; industrial applications; networks and security.

Annual Report - National Aeronautical Laboratory (India) 1976

Handbook of Research on Complexities, Management,

and Governance in Healthcare - Comite, Ubaldo 2022-10-14
Over the years, the complexity of health systems has grown due to the continuous and constant introduction of new technologies—process, production, and organizational—which have increased the number of stakeholders involved, creating new relationships and new channels through which the various subjects interact. It is necessary to highlight the critical issues and opportunities relating to the innovation of the organization and governance of health services as well as the complementarity of management and leadership. The new health needs require a Copernican revolution in the organization of services: not only offering individual services but also effective permanent care of the patient within institutional and professional assistance networks and effective, efficient, and appropriate pathways. This requires that on an organizational and

managerial level, the internal relationships between the branches of the healthcare companies must be reviewed and closer relationships built with the managing bodies of the social and welfare services. The Handbook of Research on Complexities, Management, and Governance in Healthcare proceeds with a reasoned reconstruction of healthcare issues through the problems connected to the complexities, management, and governance in healthcare in light of the recent COVID-19 pandemic. It discusses both the ethical side of health and the economic, organizational, and legal content. Covering topics such as healthcare innovation, taxation for public health, and waste disposal, this major reference work is a comprehensive resource for healthcare administration, directors, executive boards, lawyers, sociologists, government officials and policymakers, students and faculty of higher education, libraries, researchers, and academicians.

Masters Theses in the Pure and Applied Sciences - Wade

H. Shafer 2012-12-06

Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS)* at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volumes were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been

disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 38 (thesis year 1993) a total of 13,787 thesis titles from 22 Canadian and 164 United States universities. We are sure that this broader base for these titles reported will greatly enhance the value of this important annual reference work. While Volume 38 reports theses submitted in 1993, on occasion, certain universities do report theses submitted in previous years but not reported at the time.

Emerging Trends in Computing and Expert Technology D.

Jude Hemanth 2019-11-07

This book presents high-quality research papers that demonstrate how emerging technologies in the field of intelligent systems can be used to effectively meet global needs. The respective papers highlight a wealth of innovations and experimental

results, while also addressing proven IT governance, standards and practices, and new designs and tools that facilitate rapid information flows to the user. The book is divided into five major sections, namely: "Advances in High Performance Computing", "Advances in Machine and Deep Learning", "Advances in Networking and Communication", "Advances in Circuits and Systems in Computing" and "Advances in Control and Soft Computing".

Innovative Data Communication Technologies and Application - Jennifer S. Raj 2021-02-02

This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile computing, cloud computing and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies

and Application (ICIDCA 2020), are included in the book. The book focuses on the theory, design, analysis, implementation and applications of distributed systems and networks.

Technologies and Innovation

Rafael Valencia-García

2019-11-20

This book constitutes the proceedings of the 5th International Conference on Technologies and Innovation, CITI 2019, held in Guayaquil, Ecuador, in December 2019. The 14 full papers presented in this volume were carefully reviewed and selected from 32 submissions. They are organized in topical sections named: ICT in agronomy; knowledge-based systems and pattern recognition; internet of things and computer architecture.

Computer, Communication and Electrical Technology

Debatosh Guha 2017-03-16

The First International Conference on Advancement of Computer, Communication and Electrical Technology focuses on key technologies and recent

progress in computer vision, information technology applications, VLSI, signal processing, power electronics & drives, and application of sensors & transducers, etc. Topics in this conference include: Computer Science This conference encompassed relevant topics in computer science such as computer vision & intelligent system, networking theory, and application of information technology. Communication Engineering To enhance the theory & technology of communication engineering, ACCET 2016 highlighted the state-of-the-art research work in the field of VLSI, optical communication, and signal processing of various data formatting. Research work in the field of microwave engineering, cognitive radio and networks are also included. Electrical Technology The state-of-the-art research topic in the field of electrical & instrumentation engineering is included in this conference such as power system stability & protection, non-conventional

energy resources, electrical drives, and biomedical engineering. Research work in the area of optimization and application in control, measurement & instrumentation are included as well.

Trends in Data Engineering Methods for Intelligent Systems - Jude Hemanth
2021-07-05

This book briefly covers internationally contributed chapters with artificial intelligence and applied mathematics-oriented background-details. Nowadays, the world is under attack of intelligent systems covering all fields to make them practical and meaningful for humans. In this sense, this edited book provides the most recent research on use of engineering capabilities for developing intelligent systems. The chapters are a collection from the works presented at the 2nd International Conference on Artificial Intelligence and Applied Mathematics in Engineering held within 09-10-11 October 2020 at the

Antalya, Manavgat (Turkey).

The target audience of the book covers scientists, experts, M.Sc. and Ph.D. students, post-docs, and anyone interested in intelligent systems and their usage in different problem domains. The book is suitable to be used as a reference work in the courses associated with artificial intelligence and applied mathematics.

Soft Computing Techniques in Vision Science Srikanta Patnaik
2012-02-10

This Special Edited Volume is a unique approach towards Computational solution for the upcoming field of study called Vision Science. From a scientific firmament Optics, Ophthalmology, and Optical Science has surpassed an Odyssey of optimizing configurations of Optical systems, Surveillance Cameras and other Nano optical devices with the metaphor of Nano Science and Technology. Still these systems are falling short of its computational aspect to achieve the pinnacle of human vision system. In this edited volume much attention has

been given to address the coupling issues Computational Science and Vision Studies. It is a comprehensive collection of research works addressing various related areas of Vision Science like Visual Perception and Visual system, Cognitive Psychology, Neuroscience, Psychophysics and Ophthalmology, linguistic relativity, color vision etc. This issue carries some latest developments in the form of research articles and presentations. The volume is rich of contents with technical tools for convenient experimentation in Vision Science. There are 18 research papers having significance in an array of application areas. The volume claims to be an effective compendium of computing developments like Frequent Pattern Mining, Genetic Algorithm, Gabor Filter, Support Vector Machine, Region Based Mask Filter, 4D stereo camera systems, Principal Component Analysis etc. The detailed analysis of the papers can immensely benefit to the

researchers of this domain. It can be an Endeavour in the pursuit of adding value in the existing stock of knowledge in Vision Science.

Fundamentals and Sensing Applications of 2D Materials -
Chandra Sekhar Rout
2019-06-15

Fundamentals and Sensing Applications of 2D Materials provides a comprehensive understanding of a wide range of 2D materials. Examples of fundamental topics include: defect and vacancy engineering, doping and advantages of 2D materials for sensing, 2D materials and composites for sensing, and 2D materials in biosystems. A wide range of applications are addressed, such as gas sensors based on 2D materials, electrochemical glucose sensors, biosensors (enzymatic and non-enzymatic), and printed, stretchable, wearable and flexible biosensors. Due to their sub-nanometer thickness, 2D materials have a high packing density, thus making them suitable for the fabrication of thin film based

sensor devices. Benefiting from their unique physical and chemical properties (e.g. strong mechanical strength, high surface area, unparalleled thermal conductivity, remarkable biocompatibility and ease of functionalization), 2D layered nanomaterials have shown great potential in designing high performance sensor devices. Provides a comprehensive overview of 2D materials systems that are relevant to sensing, including transition metal dichalcogenides, metal oxides, graphene and other 2D materials system Includes information on potential applications, such as flexible sensors, biosensors, optical sensors, electrochemical sensors, and more Discusses graphene in terms of the lessons learned from this material for sensing applications and how these lessons can be applied to other 2D materials

TERI Energy Data Directory (TEDDY) 2009 - Teri
2009-01-01

Data Mining: Concepts and Techniques - Jiawei Han
2011-06-09

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces

the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code

and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data