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Applied Data Science - Martin Braschler 2019-06-13

This book has two main goals: to define data science through the work of data scientists and their results, namely data products, while simultaneously providing the reader with relevant lessons learned from applied data science projects at the intersection of academia and industry. As such, it is not a replacement for a classical textbook (i.e., it does not elaborate on fundamentals of methods and principles described elsewhere), but systematically highlights the connection between theory, on the one hand, and its application in specific use cases, on the other. With these goals in mind, the book is divided into three parts: Part I pays tribute to the interdisciplinary nature of data science and provides a common understanding of data science terminology for readers with different backgrounds. These six chapters are geared towards drawing a consistent picture of data science and were predominantly written by the editors themselves. Part II then broadens the spectrum by presenting views and insights from diverse authors – some from academia and some from industry, ranging from financial to health and from manufacturing to e-commerce. Each of these chapters describes a fundamental principle, method or tool in data science by analyzing specific use cases and drawing concrete conclusions from them. The case studies presented, and the methods and tools

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applied, represent the nuts and bolts of data science. Finally, Part III was again written from the perspective of the editors and summarizes the lessons learned that have been distilled from the case studies in Part II. The section can be viewed as a meta-study on data science across a broad range of domains, viewpoints and fields. Moreover, it provides answers to the question of what the mission-critical factors for success in different data science undertakings are. The book targets professionals as well as students of data science: first, practicing data scientists in industry and academia who want to broaden their scope and expand their knowledge by drawing on the authors' combined experience. Second, decision makers in businesses who face the challenge of creating or implementing a data-driven strategy and who want to learn from success stories spanning a range of industries. Third, students of data science who want to understand both the theoretical and practical aspects of data science, vetted by real-world case studies at the intersection of academia and industry.

Information Retrieval -

Security Intelligence - Qing Li 2015-04-16
Similar to unraveling a math word problem, Security Intelligence: A Practitioner's Guide to Solving Enterprise Security Challenges guides you through a deciphering process that translates each security goal into a set of security variables, substitutes each variable with a specific security technology domain, formulates the equation that is the deployment strategy, then verifies the solution against the original problem by analyzing security incidents and mining hidden breaches, ultimately refines the security formula iteratively in a perpetual cycle. You will learn about: Secure proxies – the necessary extension of the endpoints Application identification and control – visualize the threats Malnets – where is the source of infection and who are the pathogens Identify the security

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breach – who was the victim and what was the lure Security in Mobile computing – SNAFU With this book, you will be able to: Identify the relevant solutions to secure the infrastructure Construct policies that provide flexibility to the users so to ensure productivity Deploy effective defenses against the ever evolving web threats Implement solutions that are compliant to relevant rules and regulations Offer insight to developers who are building new security solutions and products

Advances in Intelligent IT - Y. Li 2006-05-09 In the great digital era, we are witnessing many rapid scientific and technological developments in human-centered, seamless computing environments, interfaces, devices and systems with applications ranging from business and communication to entertainment and learning. These developments are collectively best characterized as Active Media Technology (AMT), a new area of intelligent information technology and computer science that emphasizes the proactive, seamless roles of interfaces and systems as well as new media in all aspects of digital life. An AMT based computer system offers services that enable the rapid design, implementation, deploying and support of customized solutions. This book brings together papers from researchers from diverse areas, such as Web intelligence, data mining, intelligent agents, smart information use, networking and intelligent interface. The book includes papers on the following topics: Active Computer Systems and Intelligent Interfaces; Adaptive Web Systems and Information Foraging Agents; Web mining, Wisdom Web and Web Intelligence; E-Commerce and Web Services; Data Mining, Ontology Mining and Data Reasoning; Network, Mobile and Wireless Security; Entertainment and Social Applications of Active Media; Agent-Based Software Engineering and Multi-Agent Systems; Digital City and Digital Interactivity; Machine Learning and Human-Centered Robotics; Multi-

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Modal Processing, Detection, Recognition, and Expression Analysis; Personalized, Pervasive, and Ubiquitous Systems and their Interfaces; Smart Digital Media; and Evaluation of Active Media and AMT Based Systems.

Modern Information Retrieval - Yates 1999-09

Web, Web-Services, and Database Systems - Akmal Chaudhri 2003-07-01

This book constitutes the thoroughly refereed post-proceedings of the Web- and Database-Related Workshops held during the NetObjectDays international conference NODe 2002, in Erfurt, Germany, in October 2002. The 19 revised full papers presented together with 3 keynote papers were carefully selected during 2 rounds of reviewing and improvement. The papers are organized in topical sections on advanced Web-services, UDDI extensions, description and classification of Web services, applications based on Web-services, indexing and accessing, Web and XML databases, mobile devices and the Internet, and XML query languages.

Big Data Analytics for Satellite Image Processing and Remote Sensing - Swarnalatha, P. 2018-03-09

The scope of image processing and recognition has broadened due to the gap in scientific visualization. Thus, new imaging techniques have developed, and it is imperative to study this progression for optimal utilization. Big Data Analytics for Satellite Image Processing and Remote Sensing is a critical scholarly resource that examines the challenges and difficulties of implementing big data in image processing for remote sensing and related areas. Featuring coverage on a broad range of topics, such as distributed computing, parallel processing, and spatial data, this book is geared towards scientists, professionals, researchers, and academicians seeking current research on the use of big data analytics in satellite image processing and remote sensing.

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Next Generation Search Engines: Advanced Models for Information Retrieval - Jouis, Christophe 2012-03-31

Recent technological progress in computer science, Web technologies, and the constantly evolving information available on the Internet has drastically changed the landscape of search and access to information. Current search engines employ advanced techniques involving machine learning, social networks, and semantic analysis. Next Generation Search Engines: Advanced Models for Information Retrieval is intended for scientists and decision-makers who wish to gain working knowledge about search in order to evaluate available solutions and to dialogue with software and data providers. The book aims to provide readers with a better idea of the new trends in applied research.

Introduction to Data Compression - Khalid Sayood 2006

Each edition of Introduction to Data Compression has widely been considered the best introduction and reference text on the art and science of data compression, and the third edition continues in this tradition. Data compression techniques and technology are ever-evolving with new applications in image, speech, text, audio, and video. The third edition includes all the cutting edge updates the reader will need during the work day and in class. Khalid Sayood provides an extensive introduction to the theory underlying today's compression techniques with detailed instruction for their applications using several examples to explain the concepts. Encompassing the entire field of data compression Introduction to Data Compression, includes lossless and lossy compression, Huffman coding, arithmetic coding, dictionary techniques, context based compression, scalar and vector quantization. Khalid Sayood provides a working knowledge of data compression, giving the reader the tools to develop a complete and concise compression package upon completion of his book. New

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content added on the topic of audio compression including a description of the mp3 algorithm New video coding standard and new facsimile standard explained Completely explains established and emerging standards in depth including JPEG 2000, JPEG-LS, MPEG-2, Group 3 and 4 faxes, JBIG 2, ADPCM, LPC, CELP, and MELP Source code provided via companion web site that gives readers the opportunity to build their own algorithms, choose and implement techniques in their own applications

Advances in Information Retrieval - Maarten de Rijke 2014-03-24

This book constitutes the proceedings of the 36th European Conference on IR Research, ECIR 2014, held in Amsterdam, The Netherlands, in April 2014. The 33 full papers, 50 poster papers and 15 demonstrations presented in this volume were carefully reviewed and selected from 288 submissions. The papers are organized in the following topical sections: evaluation, recommendation, optimization, semantics, aggregation, queries, mining social media, digital libraries, efficiency, and information retrieval theory. Also included are 3 tutorial and 4 workshop presentations.

String Processing and Information Retrieval - Alberto Apostolico 2004-12-07

The papers contained in this volume were presented at the 11th Conference on String Processing and Information Retrieval (SPIRE), held Oct. 5-8, 2004 at the Department of Information Engineering of the University of Padova, Italy. They wereselected from 123 paperssubmitted in responseto the call for papers. In addition, there were invited lectures by C.J. van Rijsbergen (University of Glasgow, UK) and Setsuo Arikawa (Kyushu University, Japan). In view of the large number of good-quality submissions, some were accepted this year also as short abstracts. These also appear in the proceedings. Papers solicited for SPIRE 2004 were meant to constitute original contri-tions to areas such as string pattern searching,

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matching and discovery; data compression; text and data mining; machine learning; tasks, methods, al- rithms, media, and evaluation in information retrieval; digital libraries; and - plications to and interactions with domains such as genome analysis,speech and naturallanguageprocessing,Web links and communities, and multilingual data. SPIRE has its origins in the South American Workshop on String Proce- ing which was ?rst held in 1993. Starting in 1998, the focus of the symposium was broadened to include the area of information retrieval due to the common emphasisoninformationprocessing.The?rst10meetingswereheldinBeloH- izonte (Brazil, 1993), Valparaiso (Chile, 1995), Recife (Brazil, 1996), Valparaiso (Chile, 1997), Santa Cruz (Bolivia, 1998), Cancun (Mexico, 1999), A Coruna˜ (Spain, 2000), Laguna San Rafael (Chile, 2001), Lisbon (Portugal, 2002), and Manaus (Brazil, 2003).

Sublinear Computation Paradigm - Naoki Katoh 2021-11-20

This open access book gives an overview of cutting-edge work on a new paradigm called the "sublinear computation paradigm," which was proposed in the large multiyear academic research project "Foundations of Innovative Algorithms for Big Data." That project ran from October 2014 to March 2020, in Japan. To handle the unprecedented explosion of big data sets in research, industry, and other areas of society, there is an urgent need to develop novel methods and approaches for big data analysis. To meet this need, innovative changes in algorithm theory for big data are being pursued. For example, polynomial-time algorithms have thus far been regarded as "fast," but if a quadratic-time algorithm is applied to a petabyte-scale or larger big data set, problems are encountered in terms of computational resources or running time. To deal with this critical computational and algorithmic bottleneck, linear, sublinear, and constant time algorithms are required. The sublinear

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computation paradigm is proposed here in order to support innovation in the big data era. A foundation of innovative algorithms has been created by developing computational procedures, data structures, and modelling techniques for big data. The project is organized into three teams that focus on sublinear algorithms, sublinear data structures, and sublinear modelling. The work has provided high-level academic research results of strong computational and algorithmic interest, which are presented in this book. The book consists of five parts: Part I, which consists of a single chapter on the concept of the sublinear computation paradigm; Parts II, III, and IV review results on sublinear algorithms, sublinear data structures, and sublinear modelling, respectively; Part V presents application results. The information presented here will inspire the researchers who work in the field of modern algorithms.

Information Retrieval Technology - Yuexian Hou 2012-12-06

This book constitutes the refereed proceedings of the 8th Information Retrieval Societies Conference, AIRS 2012, held in Tianjin, China, in December 2012. The 22 full papers and 26 poster presentations included in this volume were carefully reviewed and selected from 77 submissions. They are organized in topical sections named: IR models; evaluation and user studies; NLP for IR; machine learning and data mining; social media; IR applications; multimedia IT and indexing; collaborative and federated search; and the poster session.

Machine Learning in Document Analysis and Recognition - Simone Marinai 2008-01-10

The objective of Document Analysis and Recognition (DAR) is to recognize the text and graphicalcomponents of a document and to extract information. With ?rst papers dating back to the 1960’s, DAR is a mature but still gr-ing research?eld with consolidated and known techniques. Optical Character Recognition

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(OCR) engines are some of the most widely recognized pr- ucts of the research in this ?eld, while broader DAR techniques are nowadays studied and applied to other industrial and o?ce automation systems. In the machine learning community, one of the most widely known - search problems addressed in DAR is recognition of unconstrained handwr- ten characters which has been frequently used in the past as a benchmark for evaluating machine learning algorithms, especially supervised classi?ers. However, developing a DAR system is a complex engineering task that involves the integration of multiple techniques into an organic framework. A reader may feel that the use of machine learning algorithms is not approp- ate for other DAR tasks than character recognition. On the contrary, such algorithms have been massively used for nearly all the tasks in DAR. With large emphasis being devoted to character recognition and word recognition, other tasks such as pre-processing, layout analysis, character segmentation, and signature veri?cation have also bene?ted much from machine learning algorithms.

Web Information Systems Engineering - WISE 2009 - Gottfried Vossen 2009-09-23

This book constitutes the proceedings of the 10th International Conference on Web Information Systems Engineering, WISE 2009, held in Poznan, Poland, in October 2009. The 33 revised full papers and 17 revised short papers presented together with two keynote talks were carefully reviewed and selected from around 144 submissions. The papers are organized in topical sections on web computing, industrial session, tagging, semantics, search, visualization, web services, trust and uncertainty, recommendation and quality of service, user interfaces, web understanding, exploiting structures information on the web, systems, data mining and querying, querying and workflow and architecture.

Modern B-Tree Techniques - Goetz Graefe 2011

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Invented about 40 years ago and called ubiquitous less than 10 years later, B-tree indexes have been used in a wide variety of computing systems from handheld devices to mainframes and server farms. Over the years, many techniques have been added to the basic design in order to improve efficiency or to add functionality. Examples include separation of updates to structure or contents, utility operations such as non-logged yet transactional index creation, and robust query processing such as graceful degradation during index-to-index navigation. Modern B-Tree Techniques reviews the basics of B-trees and of B-tree indexes in databases, transactional techniques and query processing techniques related to B-trees, B-tree utilities essential for database operations, and many optimizations and improvements. It is intended both as a tutorial and as a reference, enabling researchers to compare index innovations with advanced B-tree techniques and enabling professionals to select features, functions, and tradeoffs most appropriate for their data management challenges.

Computer Aided Systems Theory – EUROCAST 2005 - Roberto Moreno-Díaz 2005-09-22

This book constitutes the thoroughly refereed post-proceedings of the 10th International Conference on Computer Aided Systems Theory, EUROCAST 2005, held in Las Palmas de Gran Canaria, Spain in February 2005. The 83 revised full papers presented were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on formal approaches in modelling, intelligent information systems, information applications components, cryptography and spectral analysis, computer vision, biocomputing, intelligent vehicular systems, robotic soccer, robotics and control.

Computer and Information Sciences -- ISCIS 2006 - Albert Levi 2006-10-24

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This book constitutes the refereed proceedings of the 21st International Symposium on Computer and Information Sciences, ISCIS 2006, held in Istanbul, Turkey in October 2006. The 106 revised full papers presented together with five invited lectures were carefully reviewed and selected from 606 submissions.

Cloud Security: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2019-04-01

Cloud computing has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern, and developing effective methods to protect sensitive information and data on the cloud is imperative. Cloud Security: Concepts, Methodologies, Tools, and Applications explores the difficulties and challenges of securing user data and information on cloud platforms. It also examines the current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting a range of topics such as cloud forensics, information privacy, and standardization and security in the cloud, this multi-volume book is ideally designed for IT specialists, web designers, computer engineers, software developers, academicians, researchers, and graduate-level students interested in cloud computing concepts and security.

Compression and Coding Algorithms - Alistair Moffat 2012-12-06

Compression and Coding Algorithms describes in detail the coding mechanisms that are available for use in data compression systems. The well known Huffman coding technique is one mechanism, but there have been many others developed over the past few decades, and this book describes, explains and assesses them. People undertaking research of software development in the areas of compression and coding algorithms will find this book an

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indispensable reference. In particular, the careful and detailed description of algorithms and their implementation, plus accompanying pseudo-code that can be readily implemented on computer, make this book a definitive reference in an area currently without one.

Computational Science - ICCS 2004 - Marian Bubak 2004-06-01

The International Conference on Computational Science (ICCS 2004) held in Krak´ ow, Poland, June 6–9, 2004, was a follow-up to the highly successful ICCS 2003 held at two locations, in Melbourne, Australia and St. Petersburg, Russia; ICCS 2002 in Amsterdam, The Netherlands; and ICCS 2001 in San Francisco, USA. As computational science is still evolving in its quest for subjects of inves- gation and e?cient methods, ICCS 2004 was devised as a forum for scientists from mathematics and computer science, as the basic computing disciplines and application areas, interested in advanced computational methods for physics, chemistry, life sciences, engineering, arts and humanities, as well as computer system vendors and software developers. The main objective of this conference was to discuss problems and solutions in all areas, to identify new issues, to shape future directions of research, and to help users apply various advanced computational techniques. The event harvested recent developments in com- tationalgridsandnextgenerationcomputingsystems,tools,advancednumerical methods, data-driven systems, and novel application ?elds, such as complex - stems, ?nance, econo-physics and population evolution.

Data-intensive Text Processing with MapReduce - Jimmy Lin 2010

Our world is being revolutionized by data-driven methods: access to large amounts of data has generated new insights and opened exciting new opportunities in commerce, science, and computing applications. Processing the enormous quantities of data necessary for these

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advances requires large clusters, making distributed computing paradigms more crucial than ever. MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large-scale data processing on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution framework transparently handles many system-level details, ranging from scheduling to synchronization to fault tolerance. This book focuses on MapReduce algorithm design, with an emphasis on text processing algorithms common in natural language processing, information retrieval, and machine learning. We introduce the notion of MapReduce design patterns, which represent general reusable solutions to commonly occurring problems across a variety of problem domains. This book not only intends to help the reader "think in MapReduce", but also discusses limitations of the programming model as well. This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science. Synthesis Lectures provide concise, original presentations of important research and development topics, published quickly, in digital and print formats. For more information visit www.morganclaypool.com

Advances in Intelligent IT - Yuefeng Li 2006

" In the great digital era, we are witnessing many rapid scientific and technological developments in human-centered, seamless computing environments, interfaces, devices and systems with applications ranging from business and communication to entertainment and learning. These developments are collectively best characterized as Active Media Technology (AMT), a new area of intelligent information technology and computer science that emphasizes the proactive, seamless roles of interfaces and systems as well as new media in

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all aspects of digital life. An AMT based computer system offers services that enable the rapid design, implementation, deploying and support of customized solutions. This book brings together papers from researchers from diverse areas, such as Web intelligence, data mining, intelligent agents, smart information use, networking and intelligent interface. The book includes papers on the following topics: Active Computer Systems and Intelligent Interfaces; Adaptive Web Systems and Information Foraging Agents; Web mining, Wisdom Web and Web Intelligence; E-Commerce and Web Services; Data Mining, Ontology Mining and Data Reasoning; Network, Mobile and Wireless Security; Entertainment and Social Applications of Active Media; Agent-Based Software Engineering and Multi-Agent Systems; Digital City and Digital Interactivity; Machine Learning and Human-Centered Robotics; Multi-Modal Processing, Detection, Recognition, and Expression Analysis; Personalized, Pervasive, and Ubiquitous Systems and their Interfaces; Smart Digital Media; and Evaluation of Active Media and AMT Based Systems. "

Advances in Information Retrieval - Giambattista Amati 2007-06-05

This book constitutes the refereed proceedings of the 29th annual European Conference on Information Retrieval Research, ECIR 2007, held in Rome, Italy in April 2007. The papers are organized in topical sections on theory and design, efficiency, peer-to-peer networks, result merging, queries, relevance feedback, evaluation, classification and clustering, filtering, topic identification, expert finding, XML IR, Web IR, and multimedia IR.

Advances in Information Retrieval - Craig Macdonald 2008-03-18

This proceedings volume of the 30th annual European Conference on Information Retrieval Research covers evaluation, Web IR, social media, cross-lingual information retrieval, theory, video, representation, wikipedia and e-

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books, as well as expert search.

Managing Gigabytes - Ian H.. Witten 1999-05-03 "This book is the Bible for anyone who needs to manage large data collections. It's required reading for our search gurus at Infoseek. The authors have done an outstanding job of incorporating and describing the most significant new research in information retrieval over the past five years into this second edition." Steve Kirsch, Cofounder, Infoseek Corporation "The new edition of Witten, Moffat, and Bell not only has newer and better text search algorithms but much material on image analysis and joint image/text processing. If you care about search engines, you need this book: it is the only one with full details of how they work. The book is both detailed and enjoyable; the authors have combined elegant writing with top-grade programming." Michael Lesk, National Science Foundation "The coverage of compression, file organizations, and indexing techniques for full text and document management systems is unsurpassed. Students, researchers, and practitioners will all benefit from reading this book." Bruce Croft, Director, Center for Intelligent Information Retrieval at the University of Massachusetts In this fully updated second edition of the highly acclaimed Managing Gigabytes, authors Witten, Moffat, and Bell continue to provide unparalleled coverage of state-of-the-art techniques for compressing and indexing data. Whatever your field, if you work with large quantities of information, this book is essential reading--an authoritative theoretical resource and a practical guide to meeting the toughest storage and access challenges. It covers the latest developments in compression and indexing and their application on the Web and in digital libraries. It also details dozens of powerful techniques supported by mg, the authors' own system for compressing, storing, and retrieving text, images, and textual images. mg's source code is freely available on the Web.

The Semantic Web: Research and

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Applications - Lora Aroyo 2010-05-20
The books (LNCS 6088 and 6089) constitute the refereed proceedings of the 7th European Semantic Web Conference, ESWC 2010, held in Heraklion, Crete, Greece, in May/June 2010. The 52 revised full papers of the research track presented together with 10 PhD symposium papers and 17 demo papers were carefully reviewed and selected from more than 245 submissions. The papers are organized in topical sections on mobility track, ontologies and reasoning track, semantic web in use track, sensor networks track (part I), and services and software track, social web track, web of data track, demo and poster track, PhD symposium (part II).

Information Retrieval - Stefan Buttcher 2016-02-12
An introduction to information retrieval, the foundation for modern search engines, that emphasizes implementation and experimentation. Information retrieval is the foundation for modern search engines. This textbook offers an introduction to the core topics underlying modern search technologies, including algorithms, data structures, indexing, retrieval, and evaluation. The emphasis is on implementation and experimentation; each chapter includes exercises and suggestions for student projects. Wumpus—a multiuser open-source information retrieval system developed by one of the authors and available online—provides model implementations and a basis for student work. The modular structure of the book allows instructors to use it in a variety of graduate-level courses, including courses taught from a database systems perspective, traditional information retrieval courses with a focus on IR theory, and courses covering the basics of Web retrieval. In addition to its classroom use, Information Retrieval will be a valuable reference for professionals in computer science, computer engineering, and software engineering.

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Advances in Information Retrieval - Mohand Boughanem 2009-03-27
rank, expert search and opinion detection.
Handbook of Database Security - Michael Gertz 2007-12-03
Handbook of Database Security: Applications and Trends provides an up-to-date overview of data security models, techniques, and architectures in a variety of data management applications and settings. In addition to providing an overview of data security in different application settings, this book includes an outline for future research directions within the field. The book is designed for industry practitioners and researchers, and is also suitable for advanced-level students in computer science.
Database Systems for Advanced Applications - Lei Chen 2009-08-27
DASFAA is an annual international database conference, located in the Asia-Paci?cregion,whichshowcasesstate-of-the-artR & Dactivities in databases- tems and their applications. It provides a forum for technical presentations and discussions among database researchers, developers and users from academia, business and industry. DASFAA 2009, the 14th in the series, was held during April 20-23, 2009 in Brisbane, Australia. In this year, we carefully selected six workshops, each focusing on speci?c research issues that contribute to the main themes of the DASFAA conference.
Thisvolumecontainsthe?nalversionsofpapersacceptedforthesesixworkshops that were held in conjunction with DASFAA 2009. They are: – First International Workshop on Benchmarking of XML and Semantic Web Applications (BenchmarX 2009) – Second International Workshop on Managing Data Quality in Collaborative Information Systems (MCIS 2009) – First International Workshop on Data and Process Provenance (WDPP 2009) – First International Workshop on Privacy-Preserving

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Data Analysis (PPDA 2009) – FirstInternationalWorkshoponMobileBusinessCollaboration(MBC2009) – DASFAA 2009 PhD Workshop All the workshops were selected via a public call-for-proposals process. The workshop organizers put a tremendous amount of e?ort into soliciting and - lecting papers with a balance of high quality, new ideas and new applications. We asked all workshops to follow a rigid paper selection process, including the procedure to ensure that any Program Committee members are excluded from the paper review process of any paper they are involved with. A requirement about the overall paper acceptance rate of no more than 50% was also imposed on all the workshops.

Text Compression - Timothy C. Bell 1990 M->CREATED

Overview of the Third Text REtrieval Conference (TREC-3) - Donna K. Harman 1995 Held in Gaithersburg, MD, August November 2-4, 1994. The conference was co-sponsored by the National Inst. of Standards and Technology (NIST) and the Advanced Research Projects Agency (ARPA) and was attended by 150 people involved in the 32 participating groups. Evaluates new technologies in text retrieval. Includes 34 papers: indexing structures, fragmentation schemes, probabilistic retrieval, latent semantic indexing, interactive document retrieval, and much more. Numerous graphs, tables and charts.

New Horizons in Information Management - Anne James 2003-08-03

The refereed proceedings of the 20th British National Conference on Databases, BNCOD 20, held in Coventry, UK, in July 2003. The 20 revised full papers presented together with abstracts of 2 invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on XML and semi-structured data; performance in searching and mining; transformation, integration, and extension;

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events and transactions; and personalization and the Web.

String Processing and Information Retrieval - Jorma Tarhio 2009-08-11

This book constitutes the proceedings of the 18th International Symposium on String Processing and Information Retrieval, SPIRE 2011, held in Pisa, Italy, in October 2011. The 30 long and 10 short papers together with 1 keynote presented were carefully reviewed and selected from 102 submissions. The papers are structured in topical sections on introduction to web retrieval, sequence learning, computational geography, space-efficient data structures, algorithmic analysis of biological data, compression, text and algorithms.

Handbook of Data Structures and Applications - Dinesh P. Mehta 2018-02-21

The Handbook of Data Structures and Applications was first published over a decade ago. This second edition aims to update the first by focusing on areas of research in data structures that have seen significant progress. While the discipline of data structures has not matured as rapidly as other areas of computer science, the book aims to update those areas that have seen advances. Retaining the seven-part structure of the first edition, the handbook begins with a review of introductory material, followed by a discussion of well-known classes of data structures, Priority Queues, Dictionary Structures, and Multidimensional structures. The editors next analyze miscellaneous data structures, which are well-known structures that elude easy classification. The book then addresses mechanisms and tools that were developed to facilitate the use of data structures in real programs. It concludes with an examination of the applications of data structures. Four new chapters have been added on Bloom Filters, Binary Decision Diagrams, Data Structures for Cheminformatics, and Data Structures for Big Data Stores, and updates have been made to other chapters that appeared in

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the first edition. The Handbook is invaluable for suggesting new ideas for research in data structures, and for revealing application contexts in which they can be deployed. Practitioners devising algorithms will gain insight into organizing data, allowing them to solve algorithmic problems more efficiently.

Indexing Techniques for Advanced Database Systems - Elisa Bertino 2012-12-06

Recent years have seen an explosive growth in the use of new database applications such as CAD/CAM systems, spatial information systems, and multimedia information systems. The needs of these applications are far more complex than traditional business applications. They call for support of objects with complex data types, such as images and spatial objects, and for support of objects with wildly varying numbers of index terms, such as documents. Traditional indexing techniques such as the B-tree and its variants do not efficiently support these applications, and so new indexing mechanisms have been developed. As a result of the demand for database support for new applications, there has been a proliferation of new indexing techniques. The need for a book addressing indexing problems in advanced applications is evident. For practitioners and database and application developers, this book explains best practice, guiding the selection of appropriate indexes for each application. For researchers, this book provides a foundation for the development of new and more robust indexes. For newcomers, this book is an overview of the wide range of advanced indexing techniques. Indexing Techniques for Advanced Database Systems is suitable as a secondary text for a graduate level course on indexing techniques, and as a reference for researchers and practitioners in industry.

Putting Content Online - Mark Jordan 2006-09-30

This book focuses on practical, standards-based approaches to planning, executing and

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managing projects in which libraries and other cultural institutions digitize material and make it available on the web (or make collections of born-digital material available). Topics include evaluating material for digitization, intellectual property issues, metadata standards, digital library content management systems, search and retrieval considerations, project management, project operations, proposal writing, and libraries' emerging role as publishers. Highly practical. Explains complex processes, warns of potential challenges and provides advice for solving realistic problems Comprehensive: includes coverage of the range of techniques and strategies for digitizing and organizing material that practitioners can use to plan and implement digitization projects

Introduction to Information Retrieval - Christopher D. Manning 2008-07-07

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

1995 Science Information Management and Data Compression Workshop - James Charles Tilton 1995

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Abstract: This workshop explored promising computational approaches for handling the collection, ingestion, archival and retrieval of large quantities of data in future Earth and space science missions. It consisted of fourteen presentations covering a range of information management and data compression approaches that are being or have been integrated into actual or prototypical Earth or space science data information systems, or that hold promise for such an application.

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