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Structured Search for Big Data **Librarian's Guide to Online Searching** *Keyword Search in Databases* Fundamentals of Database Indexing and Searching Cases in Online Search Strategy *Manual of Online Search Strategies* **Database Search Strategies & Tips Search-Based Applications Google Search Secrets Librarian's Guide to Online Searching** Image Databases **Computerized Literature Searching** *Nearest Neighbor Search: Predicate-oriented Database Search Algorithms* Online Database Search Services Directory **The Taxobook Expert Searching in the Google Age Online and CD-ROM Database Searching in College Libraries** Online Searching **Online Bibliographic Database Searching in College Libraries** Online Searching **Adaptable Similarity Search in 3-D Spatial Database Systems Twitchy Witchy Itch** MEDLINE *Image Databases and Multi-media Search* **Internet Access to the National Library of Medicine's Toxicology and Environmental Health Databases** Books and Culture **Search Engines for the World Wide Web Intelligent Image Databases Drug-Induced Liver Injury** Search Routines: Tales of Databases **Guide to Technology Databases Issues in Online Database Searching Online Database Search Services Directory Vocabulary Control and Search Strategies in Online Searching** *Online Database Search Strategies and Thesaural Relationship Models* My Red Hat *The Integrated Medical Library Database Search Aids* **Comprehensive Systematic Review for Advanced Practice Nursing, Third Edition**

If the writer who ventures to say something more about books and their uses is wise, he will not begin with an apology; for he will know that, despite all that has been said and written on this engrossing theme, the interest of books is inexhaustible, and that there is always a new constituency to read them. So rich is the vitality of the great books of the world that men are never done with them; not only does each new generation read them, but it is compelled to form some judgment of them. In this way Homer, Dante, Shakespeare, Goethe, and their fellow-artists, are always coming into the open court of public opinion, and the estimate in which they are held is valuable chiefly as affording material for a judgment of the generation which forms it. An age which understands and honours creative artists must have a certain breadth of view and energy of spirit; an age which fails to recognise their significance fails to recognise the range and splendour of life, and has, therefore, a

certain inferiority. A two-time AJN Book of the Year Award winner and a 2013 Doody Core Title! This distinguished text provides top-tier guidance for advanced practice nurses on how to perform a comprehensive systematic review of available research to inform scholarly work, particularly in DNP and PhD programs. With a strategic focus on the search process and assessing the quality of the evidence, this text presents, clearly and comprehensively, all of the knowledge and skills necessary to conduct a foundational CSR in eight concrete steps. This text examines how to write a CSR proposal, final report, and a policy brief based on systematic review findings. Two finished proposals and two completed systematic reviews demonstrate each step of the process from start to finish. Additionally, the text covers software used in research queries and provides helpful strategies for effectively using the search function when seeking information. The Third Edition offers four new chapters with incisive recommendations for performing a CSR and addressing new ways CSR is being implemented in today's healthcare environment. It describes the latest methodological advances, including living systematic reviews and dominance scores for economic review. Two complete CSRs along with new and updated examples throughout the book further aid readers in their pursuit of excellence in scholarly work. New to the Third Edition: New Chapters: How to choose the right critical appraisal tool Writing the final report and disseminating the results of systematic reviews Disseminating results with how to write a policy brief and/or press release on CSR results Example of a meta-analysis using GRADE Offers increased focus on dissemination Includes new and updated examples reflecting latest trends in nursing scholarly work Key Features: Provides the knowledge and skills necessary to conduct a CSR from start to finish Teaches readers how to conduct high-quality systematic reviews Instructs readers on pertinent resources and methods for optimal library-related systematic review research efforts Describes how to best search research databases to facilitate scholarly work Includes objectives, summary points, end-of-chapter exercises, discussion questions, suggested reading, and references to enhance understanding In order to collect information on online bibliographic searching activities in smaller academic libraries, a survey was conducted in December 1982 of 252 college and university libraries located in public and private institutions with enrollments of between 1,000 and 5,000 students. An 88.5% response rate was achieved. It was found that 65% of the respondents offered online search services; fewer than half of the librarians in each institution were involved in online searching; 73% of the libraries providing online services charged or planned to charge faculty and students for these services; DIALOG was by far the most frequently used vendor; the average direct cost per

search varied widely; and the connect time for most libraries (74%) averaged less than 15 minutes. This publication briefly outlines the survey methodology and findings; a sample questionnaire with responses noted is provided. Also presented are copies of online searching policy statements, promotional items, search request forms, transaction log forms, billing forms, evaluation forms, and statistical report forms from over 50 institutions. (Author/ESR) Demonstrates successful search strategies while analyzing the strengths and weaknesses of Yahoo!, AltaVista, Excite, Infoseek, Lycos, and Hot-Bot, describing advanced features and query terminology for each. The present Guide is a detailed technical paper aimed at industrial property office examiners and users in general to assist them in identifying the correct database and using the possible functionalities and tools offered by specific databases. The current Guide examines a selection of commercial and non-commercial database services considered representative of the broader population of existing services in order to illustrate types and combinations of features available through these services. Modern applications are both data and computationally intensive and require the storage and manipulation of voluminous traditional (alphanumeric) and nontraditional data sets (images, text, geometric objects, time-series). Examples of such emerging application domains are: Geographical Information Systems (GIS), Multimedia Information Systems, CAD/CAM, Time-Series Analysis, Medical Information Sstems, On-Line Analytical Processing (OLAP), and Data Mining. These applications pose diverse requirements with respect to the information and the operations that need to be supported. From the database perspective, new techniques and tools therefore need to be developed towards increased processing efficiency. This monograph explores the way spatial database management systems aim at supporting queries that involve the space characteristics of the underlying data, and discusses query processing techniques for nearest neighbor queries. It provides both basic concepts and state-of-the-art results in spatial databases and parallel processing research, and studies numerous applications of nearest neighbor queries. The principal application of this thesis will be in the area of automatic programming. The purpose of that branch of computer science has been to discover how automatic algorithms can be developed which do much of the programming that has traditionally been assigned to human beings. Such automatic algorithms have been advocated by many computer scientists because these procedures would dramatically reduce the cost of writing computer programs. The combined work of the cited authors have shown that; (i) the cost of developing computer software may greatly exceed hardware costs in the 1980's (Boehm has estimated that computer programmer labor costs will constitute 90

percent of all the Air Force's 1985 computer-related expenditures), (ii) and that the health of the computer industry requires lower software development costs (even if this is done in the context of a trade-off that modestly increases the hardware costs). The importance of automatic database search algorithms was further confirmed in a recent panel discussion. The members of that panel concluded that such automatic search algorithms would be extremely useful if these algorithms could be made to be moderately efficient. This thesis will lay the foundations of the theory that should be used in the development of automatic predicate searching algorithms. First published in 1991, Library automation has advanced at such a rapid pace within the last few years that librarians who have been limited by either budget or hardware constraints are today able to automate at least some library functions. Even though presentations at meetings describing individual efforts have been published in the literature, there has not been a comprehensive text discussing the status of integration at all levels of library management as it exists today. The Integrated Medical Library addresses this need by presenting the results of a survey of automated systems currently used in medical libraries as a basis on which to discuss various methods for integrating these systems. This includes serials, cataloging, circulation, acquisitions, internal database management systems, external database search procedures, and management and financial control. The book emphasizes current practices and procedures and proposes methods for libraries to improve their performance and services. Part I defines an integrated online library system and describes the study design and analysis of results. Part II describes commercially available integrated online library systems currently used by medical libraries. Part III discusses the specialized integrated online library systems of the U.S. National Library of Medicine and the Swedish Planning and Rationalization Institute for the Health and Social Services. Part IV describes ad hoc integrated functions currently used by medical libraries, while Part V discusses the various means of integration. Online Searching is a complete guide for the aspiring expert searcher, explaining important online searching concepts and practices, demonstrating them visually in figures and videos, and inviting you to get hands-on practice by completing its end-of-the-chapter questions and comparing your online experiences with its suggested answers. This groundbreaking textbook and guide for library school students and librarians will help you—regardless of experience level or environment—learn the ins and outs of working with online databases, the best tactics for effective research on the Internet, and the methods for conveying these search skills to others. The WWW era made billions of people dramatically dependent on the progress of data technologies, out of which Internet search and Big Data are arguably the most

notable. Structured Search paradigm connects them via a fundamental concept of key-objects evolving out of keywords as the units of search. The key-object data model and KeySQL revamp the data independence principle making it applicable for Big Data and complement NoSQL with full-blown structured querying functionality. The ultimate goal is extracting Big Information from the Big Data. As a Big Data Consultant, Mikhail Gilula combines academic background with 20 years of industry experience in the database and data warehousing technologies working as a Sr. Data Architect for Teradata, Alcatel-Lucent, and PayPal, among others. He has authored three books, including The Set Model for Database and Information Systems and holds four US Patents in Structured Search and Data Integration. Conceptualizes structured search as a technology for querying multiple data sources in an independent and scalable manner. Explains how NoSQL and KeySQL complement each other and serve different needs with respect to big data Shows the place of structured search in the internet evolution and describes its implementations including the real-time structured internet search A reference and referral guide to libraries, information firms, and other sources providing computerized information retrieval and associated services using publicly available online databases. Online database search services. This book is the third of a three-part series on taxonomies, and covers putting your taxonomy into use in as many ways as possible to maximize retrieval for your users. Chapter 1 suggests several items to research and consider before you start your implementation and integration process. It explores the different pieces of software that you will need for your system and what features to look for in each. Chapter 2 launches with a discussion of how taxonomy terms can be used within a workflow, connecting two—or more—taxonomies, and intelligent coordination of platforms and taxonomies. Microsoft SharePoint is a widely used and popular program, and I consider their use of taxonomies in this chapter. Following that is a discussion of taxonomies and semantic integration and then the relationship between indexing and the hierarchy of a taxonomy. Chapter 3 (“How is a Taxonomy Connected to Search?”) provides discussions and examples of putting taxonomies into use in practical applications. It discusses displaying content based on search, how taxonomy is connected to search, using a taxonomy to guide a searcher, tools for search, including search engines, crawlers and spiders, and search software, the parts of a search-capable system, and then how to assemble that search-capable system. This chapter also examines how to measure quality in search, the different kinds of search, and theories on search from several famous theoreticians—two from the 18th and 19th centuries, and two contemporary. Following that is a section on inverted files, parsing, discovery, and clustering.

While you probably don't need a comprehensive understanding of these concepts to build a solid, workable system, enough information is provided for the reader to see how they fit into the overall scheme. This chapter concludes with a look at faceted search and some possibilities for search interfaces. Chapter 4, "Implementing a Taxonomy in a Database or on a Website," starts where many content systems really should—with the authors, or at least the people who create the content. This chapter discusses matching up various groups of related data to form connections, data visualization and text analytics, and mobile and e-commerce applications for taxonomies. Finally, Chapter 5 presents some educated guesses about the future of knowledge organization. Table of Contents: List of Figures / Preface / Acknowledgments / On Your Mark, Get Ready .... WAIT! Things to Know Before You Start the Implementation Step / Taxonomy and Thesaurus Implementation / How is a Taxonomy Connected to Search? / Implementing a Taxonomy in a Database or on a Website / What Lies Ahead for Knowledge Organization? / Glossary / End Notes / Author Biography Drug-Induced Liver Injury, Volume 85, the newest volume in the Advances in Pharmacology series, presents a variety of chapters from the best authors in the field. Chapters in this new release include Cell death mechanisms in DILI, Mitochondria in DILI, Primary hepatocytes and their cultures for the testing of drug-induced liver injury, MetaHeps an alternate approach to identify IDILI, Autophagy and DILI, Biomarkers and DILI, Regeneration and DILI, Drug-induced liver injury in obesity and nonalcoholic fatty liver disease, Mechanisms of Idiosyncratic Drug-Induced Liver Injury, the Evaluation and Treatment of Acetaminophen Toxicity, and much more. Includes the authority and expertise of leading contributors in pharmacology Presents the latest release in the Advances in Pharmacology series It has become highly desirable to provide users with flexible ways to query/search information over databases as simple as keyword search like Google search. This book surveys the recent developments on keyword search over databases, and focuses on finding structural information among objects in a database using a set of keywords. Such structural information to be returned can be either trees or subgraphs representing how the objects, that contain the required keywords, are interconnected in a relational database or in an XML database. The structural keyword search is completely different from finding documents that contain all the user-given keywords. The former focuses on the interconnected object structures, whereas the latter focuses on the object content. The book is organized as follows. In Chapter 1, we highlight the main research issues on the structural keyword search in different contexts. In Chapter 2, we focus on supporting structural keyword search in a relational database management system

using the SQL query language. We concentrate on how to generate a set of SQL queries that can find all the structural information among records in a relational database completely, and how to evaluate the generated set of SQL queries efficiently. In Chapter 3, we discuss graph algorithms for structural keyword search by treating an entire relational database as a large data graph. In Chapter 4, we discuss structural keyword search in a large tree-structured XML database. In Chapter 5, we highlight several interesting research issues regarding keyword search on databases. The book can be used as either an extended survey for people who are interested in the structural keyword search or a reference book for a postgraduate course on the related topics. Table of Contents: Introduction / Schema-Based Keyword Search on Relational Databases / Graph-Based Keyword Search / Keyword Search in XML Databases / Other Topics for Keyword Search on Databases The World Wide Web and the Internet are signs things will be very different in the future. And what is so striking about this computer-age future is that it comes incredibly fast and is incredibly overwhelming. Anyone who has surfed the Web has exclaimed at one point or another that there is so much information available, so much to search and so much to keep up with. Where Lycos and Alta Vista are already accepted tools for textual information, image databases and multimedia search engines are the natural answers in the quest for pictorial information. This book provides a state-of-the-art description of that field. It contains the proceedings of a valuable workshop in Amsterdam, where people gathered to discuss the progress in the field. The topics cover computational methods of searching for pictures, the powerful pictorial clues in the recognition of objects, storage and indexing of objects in a database, and, ways to access the requested pictorial information. This text presents sample policies and procedure statements, forms, public relations documents and instructional handouts for libraries offering online searching, CD-ROM and other computer-based services. Survey results from 179 American college libraries are reported and analysed. Visual hijinks abound as a nervous witch gets swept away with trying to tidy up before company comes--only to discover that being with friends is what really matters. Tick, tock! Three cups. Tick, tock! Three saucers. With nine minutes left, everything was ready. Or was it? Itch the witch is having company over for tea. As the clock counts down to tea o'clock, Itch's mind is in a tizzy: is her house too twitchy? Is her home too itchy? Zipping and zooming, dusting and brooming, Itch sweeps and bewitches the mess away (just in the nick of time). But as soon as her two guests walk in, Itch's housekeeping comes unraveled. How will Itch tame such an itchy, glitchy, fidgety mess? Rising star Priscilla Tey uses computer-aided design (and evokes familiar

computer glitches) to present a delightfully meta, intricately illustrated story that dazzles as it amuses. Intelligent Image Databases: Towards Advanced Image Retrieval addresses the image feature selection issue in developing content-based image retrieval systems. The book first discusses the four important issues in developing a complete content-based image retrieval system, and then demonstrates that image feature selection has significant impact on the remaining issues of system design. Next, it presents an in-depth literature survey on typical image features explored by contemporary content-based image retrieval systems for image matching and retrieval purposes. The goal of the survey is to determine the characteristics and the effectiveness of individual features, so as to establish guidelines for future development of content-based image retrieval systems. Intelligent Image Databases: Towards Advanced Image Retrieval describes the Advanced Region-Based Image Retrieval System (ARBIRS) developed by the authors for color images of real-world scenes. They have selected image regions for building ARBIRS as the literature survey suggests that prominent image regions, along with their associated features, provide a higher probability for achieving a higher level content-based image retrieval system. A major challenge in building a region-based image retrieval system is that prominent regions are rather difficult to capture in an accurate and error-free condition, particularly those in images of real-world scenes. To meet this challenge, the book proposes an integrated approach to tackle the problem via feature capturing, feature indexing, and database query. Through comprehensive system evaluation, it is demonstrated how these systematically integrated efforts work effectively to accomplish advanced image retrieval. Intelligent Image Databases: Towards Advanced Image Retrieval serves as an excellent reference and may be used as a text for advanced courses on the topic. Google can be an incredibly powerful tool for research, but the top-of-the-page results are seldom the most beneficial to library users and students, and many of the search engine's most useful features are hidden behind its famously simple interface. Burns and Sauers reveal the secrets of effective Google searches in this invaluable resource showing how to get the most out of the service, with An overview of all the tool's search services, including Image, Maps, News, Blogs, Discussions, Scholar, Patents, and Books Ready-to-use instructions on how to go beyond the simple search box and top results to get library users the answers they need, fast Straightforward guidance on using filters to refine search results, with examples of common searches like images with Creative Commons licenses, news searches set for a date range or into an archive, and videos with closed captioning An explanation of the bibliography manager feature of Google Scholar, which allows students and

researchers to build bibliographies with ease Tips for configuring Safe Search on workstations in children’s departments and schools Copious screenshots walk readers through each topic step by step, making this a true how-to guide for everyone who uses Google. "....a well-written, quick read perfect for medical librarianship students, physicians, and researchers or anyone interested in improving their MEDLINE searching abilities." -- Journal of the Medical Library Association This concise and clearly written book will make your PubMed searches more productive. This completely revised second edition of Brian Katcher's MEDLINE: a guide to effective searching in PubMed and other interfaces promotes the cultivation of an informed and thoughtful approach to searching in PubMed/MEDLINE and other interfaces to MEDLINE. MEDLINE, the National Library of Medicine's on-line bibliographic database, is the premiere index to the world's biomedical literature. It is the primary component of PubMed. MEDLINE is exquisitely organized: each journal article is manually indexed under an average of a dozen Medical Subject Headings (MeSH Terms), one or more publication types, and more. An understanding of this organization is essential to effective searching. Any health professional, health sciences student, or researcher will benefit from reading this book. It explains the basics of formulating searches, shows how to put the main indexing elements in MEDLINE to best use, illustrates the importance of Medical Subject Headings (MeSH), provides guidance for framing questions, and backs everything up with practical examples. MEDLINE: a guide to effective searching in PubMed and other interfaces is an essential resource for those concerned with evidence-based medicine and those engaged in biomedical research. Medical librarians and teachers of medical informatics will find this book to be useful in promoting the careful use of PubMed/MEDLINE. Sometimes simply reading a linear narrative--even on a screen--is a good way to learn. In addition, PubMed offers excellent on-line tutorials. Published in 1992, like the first, this second edition is not intended as introductory textbook command-driven, Boolean searching. It is targeted at online searchers who already have some knowledge of command languages and may be proficient searchers on databases in one or two subject areas, but when required to venture into new and less familiar territory still need guidance. It is also offered to end users who possess the subject expertise but lack of information retrieval know-how. The Manual is offered as a guide to database selection and a navigational aid through the twists and turns of the retrieval maze; at least some of the dead ends and backtracking may thereby be avoided. This volume, written by experts in their various fields, deals with the subject coverage and record structures of specific databases, offers comparisons between databases

(context, indexing procedures, updating policies, etc.), discusses the choice between online and CD-ROM sources (and between hosts if online is selected), and illustrates strategies with numerous search extracts. How do expert searchers fit into the Google age? Is there still a role for them? How can you be the best searcher you can be? What tools can you use to develop your skills and build better searches? These questions and more are covered by Jankowski. After making a case for the value librarians can bring to the searching process, whether using Google or other databases, Jankowski takes you through the entire search cycle and offers a glimpse into the future of searching. How do you negotiate a search so that all parties are satisfied? How do you decide which resources to use and use them to their best advantage? What are the steps to building a good search strategy and how do you adapt and modify it? When the results are in how do you manage the results and document the process? Filled with tips and tricks gathered from over 40 years of experience Jankowski provides the answers in this conversational, yet practical guide. In addition to providing checklists and examples throughout the book, an entire chapter describes search tools and resources to grow your own expertise. Opportunities to apply the knowledge gained are offered in most chapters. This compact useful book can be used as a reference text, for self-study or as a course text. Updates the premier textbook for students and librarians needing to know the landscape of current databases and how to search them. Librarians need to know of existing databases, and they must be able to teach search capabilities and strategies to library users. This practical guide introduces librarians to a broad spectrum of fee-based and freely available databases and explains how to teach them. The updated 6th edition of this well-regarded text covers new databases on the market as well as updates to older databases. It also explains underlying information structures and demonstrates how to search most effectively. It introduces readers to several recent changes, such as the move away from metadata-based indexing to full text indexing by vendors covering newspaper content. Business databases receive greater emphasis. As in the previous editions, this book takes a real-world approach, covering topics from basic and advanced search tools to online subject databases. Each chapter includes a thorough discussion, a recap, concrete examples, exercises, and points to consider, making it an ideal text for courses in database searching as well as a trustworthy professional resource. In a touching reflection on love between generations, a grandfather passes down a hat that has seen a world of moments—and carries a big piece of his heart. A hat can do many things. It can keep you warm and dry. It can help you stand out in a crowd, or it can help you blend in. It can hold your dreams or your secrets, and it can hide your fears. In a debut picture book, Rachel

Stubbs pairs winsomely expressive artwork with a gentle meditation on family connection and memory, as a grandfather offers his grandchild the anticipation of a life lived with wonder and openness . . . and a very special hat. Databases pervade our everyday life, they are involved in the individual's most fundamental activities. Through their near invisibility and resistance to narration they produce subtle forms of collective control and normalization, accompanied by keywords such as: mass surveillance, big data, user generated content, etc. The publication "Search Routines: Tales of Databases" enlarges on the topics discussed in the exhibition, the workshop and during the symposium which took place at D21 Kunstraum and sublab hackerspace Leipzig in 2014. A series of interviews review artistic strategies like narration or the translation of data and algorithms to adress the invisibility of databases. Reports from the workshops tell about the potential of making the invisible visible or simply of hiding oneself from the databases' range of view. The symposium dis Databases and public access catalogs are being used extensively by the public and the academic and business communities as major sources of information. Most users want to access these databases directly to locate the information they need. Increasingly, users are demanding user-friendly databases that will assist them in finding conceptual information effectively. The lack of compatibility or standardization among many different indexing vocabularies and thesauri makes it difficult to find related information in information retrieval systems containing many different online databases. This book provides a thought-provoking new perspective on the role of vocabulary control in providing access to the conceptual information found in online databases and catalogs. The first three chapters provide a basis for understanding the structure of vocabulary control systems used for the indexing of conceptual information. Chapters 4 and 5, which deal with thesaural relationship model formulation and investigation, will be of the greatest interest to designers of online databases and public access catalogs who are striving to improve access to conceptual information from multiple databases. Researchers and developers of thesauri, who are faced with the problems of compatibility and convertibility, will also be interested in testing the applicability of the thesaural relationship model for other vocabulary control systems. The findings reported in chapter six will be of particular interest to database producers and vendors. Although switching and frequency online search strategies for database search engines are not yet available, end-users and experienced searchers can still incorporate these concepts to improve the effectiveness of their searches. Recommendations resulting from this investigation are summarized in the final chapters. With the proliferation of online databases and the increasing number of

inexperienced users, the development of new search strategies to facilitate easier searches is critical. This book will be required reading for everyone involved in this effort. Describes the management of an online searching service--how to set up, implement and administer on online reference program. Annotation copyrighted by Book News, Inc., Portland, OR Novice and advanced online searchers can prepare for cost-effective electronic database searching with this new resource. Starting with approximately 50 typical reference questions, the cases track through the steps and components of successful searches. The process includes conversation and question negotiation, strategy formulation, discussion of alternative approaches, search algorithm, file selection, search results, evaluation, and further steps if necessary. The tone of the work is conversational and advisory, and emphasis is on practical and creative problem solving. A great practice tool for beginners and a valuable supplement to any text (such as Online Retrieval by Walker and Janes-see above) or course in electronic information access. The computer terminal is well on its way to being as commonplace as the telephone, and its usefulness to the scholar and scientist is so great that already computer screens and disks are seen frequently in academic offices. The value of computers in research is well established, with vast amounts of data being processed daily by all sizes of computers. Computers also have had dramatic effects on the researcher's literature-searching options: Scientists and scholars can now query enormous databases containing tens of millions of citations to published literature and can extract bibliographies tailored to their specific questions. The power and flexibility afforded the user of information by these literature-searching systems ease the burden of library work, but in order to use the systems effectively, it is necessary to understand both their capabilities and their limitations. Mr. Gilreath describes the principles underlying online bibliographic systems, the databases available, and the factors a researcher must consider in using them. He explores in some depth the relationship of the structure and terminology of publications in various fields to the literature-searching process and provides detailed guidelines for research in the life, health, agricultural, and social sciences, chemistry, physics, mathematics, geology, meteorology, engineering, education, psychology, business, law, current affairs, and the humanities. A glossary of literature-searching terms is included. The explosive growth of multimedia data transmission has generated a critical need for efficient, high-capacity image databases, as well as powerful search engines to retrieve image data from them. This book brings together contributions by an international all-star team of innovators in the field who share their insights into all key aspects of image database and search engine construction. Readers get in-depth discussions of the entire range of crucial

image database architecture, indexing and retrieval, transmission, display, and user interface issues. And, using examples from an array of disciplines, the authors present cutting-edge applications in medical imagery, multimedia communications, earth science, remote sensing, and other major application areas. We are poised at a major turning point in the history of information management via computers. Recent evolutions in computing, communications, and commerce are fundamentally reshaping the ways in which we humans interact with information, and generating enormous volumes of electronic data along the way. As a result of these forces, what will data management technologies, and their supporting software and system architectures, look like in ten years? It is difficult to say, but we can see the future taking shape now in a new generation of information access platforms that combine strategies and structures of two familiar -- and previously quite distinct -- technologies, search engines and databases, and in a new model for software applications, the Search-Based Application (SBA), which offers a pragmatic way to solve both well-known and emerging information management challenges as of now. Search engines are the world's most familiar and widely deployed information access tool, used by hundreds of millions of people every day to locate information on the Web, but few are aware they can now also be used to provide precise, multidimensional information access and analysis that is hard to distinguish from current database applications, yet endowed with the usability and massive scalability of Web search. In this book, we hope to introduce Search Based Applications to a wider audience, using real case studies to show how this flexible technology can be used to intelligently aggregate large volumes of unstructured data (like Web pages) and structured data (like database content), and to make that data available in a highly contextual, quasi real-time manner to a wide base of users for a varied range of purposes. We also hope to shed light on the general convergences underway in search and database disciplines, convergences that make SBAs possible, and which serve as harbingers of information management paradigms and technologies to come. Table of Contents: Search Based Applications / Evolving Business Information Access Needs / Origins and Histories / Data Models and Storage / Data Collection/Population / Data Processing / Data Retrieval / Data Security, Usability, Performance, Cost / Summary Evolutions and Convergences / SBA Platforms / SBA Uses and Preconditions / Anatomy of a Search Based Application / Case Study: GEFCO / Case Study: Urbanizer / Case Study: National Postal Agency / Future Directions Fundamentals of Database Indexing and Searching presents well-known database searching and indexing techniques. It focuses on similarity search queries, showing how to use distance functions to measure the notion of dissimilarity. After

defining database queries and similarity search queries, the book organizes the most common and representative index structures according to their characteristics. The author first describes low-dimensional index structures, memory-based index structures, and hierarchical disk-based index structures. He then outlines useful distance measures and index structures that use the distance information to efficiently solve similarity search queries. Focusing on the difficult dimensionality phenomenon, he also presents several indexing methods that specifically deal with high-dimensional spaces. In addition, the book covers data reduction techniques, including embedding, various data transforms, and histograms. Through numerous real-world examples, this book explores how to effectively index and search for information in large collections of data. Requiring only a basic computer science background, it is accessible to practitioners and advanced undergraduate students.

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