

## Sql Yale University

Database System Concepts by Silberschatz, Korth and Sudarshan is now in its 6th edition and is one of the cornerstone texts of database education. It presents the fundamental concepts of database management in an intuitive manner geared toward allowing students to begin working with databases as quickly as possible. The text is designed for a first course in databases at the junior/senior undergraduate level or the first year graduate level. It also contains additional material that can be used as supplements or as introductory material for an advanced course. Because the authors present concepts as intuitive descriptions, a familiarity with basic data structures, computer organization, and a high-level programming language are the only prerequisites. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true.

This book presents the proceedings of the 6th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2017), held in Bhubaneswar, Odisha. The event brought together researchers, scientists, engineers, and practitioners to exchange their new ideas and experiences in the domain of intelligent computing theories with prospective applications to various engineering disciplines. The book is divided into two volumes: Information and Decision Sciences, and Intelligent Engineering Informatics. This volume covers broad areas of Information and Decision Sciences, with papers exploring both the theoretical and practical aspects of data-intensive computing, data mining, evolutionary computation, knowledge management & networks, sensor networks, signal processing, wireless networks, protocols & architectures etc. The book also offers a valuable resource for students at the post-graduate level in various engineering disciplines.

When do governments merit our allegiance, and when should they be denied it? Ian Shapiro explores this most enduring of political dilemmas in this innovative and engaging book. Building on his highly popular Yale courses, Professor Shapiro evaluates the main contending accounts of the sources of political legitimacy. Starting with theorists of the Enlightenment, he examines the arguments put forward by utilitarians, Marxists, and theorists of the social contract. Next he turns to the anti-Enlightenment tradition that stretches from Edmund Burke to contemporary post-modernists. In the last part of the book Shapiro examines partisans and critics of democracy from Plato's time until our own. He concludes with an assessment of democracy's strengths and limitations as the font of political legitimacy. The book offers a lucid and accessible introduction to urgent ongoing conversations about the sources of political allegiance.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Cloud computing has proven to be a successful paradigm of service-oriented computing, and has revolutionized the way computing infrastructures are abstracted and used. By means of cloud computing technology, massive data can be managed

effectively and efficiently to support various aspects of problem solving and decision making. *Managing Big Data in Cloud Computing Environments* explores the latest advancements in the area of data management and analysis in the cloud. Providing timely, research-based information relating to data storage, sharing, extraction, and indexing in cloud systems, this publication is an ideal reference source for graduate students, IT specialists, researchers, and professionals working in the areas of data and knowledge engineering.

This book celebrates Michael Stonebraker's accomplishments that led to his 2014 ACM A.M. Turing Award "for fundamental contributions to the concepts and practices underlying modern database systems." The book describes, for the broad computing community, the unique nature, significance, and impact of Mike's achievements in advancing modern database systems over more than forty years. Today, data is considered the world's most valuable resource, whether it is in the tens of millions of databases used to manage the world's businesses and governments, in the billions of databases in our smartphones and watches, or residing elsewhere, as yet unmanaged, awaiting the elusive next generation of database systems. Every one of the millions or billions of databases includes features that are celebrated by the 2014 Turing Award and are described in this book. Why should I care about databases? What is a database? What is data management? What is a database management system (DBMS)? These are just some of the questions that this book answers, in describing the development of data management through the achievements of Mike Stonebraker and his over 200 collaborators. In reading the stories in this book, you will discover core data management concepts that were developed over the two greatest eras (so far) of data management technology. The book is a collection of 36 stories written by Mike and 38 of his collaborators: 23 world-leading database researchers, 11 world-class systems engineers, and 4 business partners. If you are an aspiring researcher, engineer, or entrepreneur you might read these stories to find these turning points as practice to tilt at your own computer-science windmills, to spur yourself to your next step of innovation and achievement. Introducing Web page authors and programmers to the JSP Standard Tag Library (JSTL), this guide covers all features of the JSTL 1.0 standard. Whether users need to add dynamic content to a static Web page or are in need of providing back-end code, nonprogrammers are shown how to manipulate XML, access relational databases, format text, internationalize Web applications, and introduce general-flow logic into JSP--all with HTML-like tags that are accessible to authors of Web pages. Also addressed are techniques for utilizing and extending JSTL's functionality.

This book offers a comprehensive introduction to relational (SQL) and non-relational (NoSQL) databases. The authors thoroughly review the current state of database tools and techniques, and examine coming innovations. The book opens with a broad look at data management, including an overview of information systems and databases, and an explanation of contemporary database types: SQL and NoSQL databases, and their respective management systems. The nature and uses of Big Data. A high-level view of the organization of data management. Data Modeling and Consistency. Chapter-length treatment is afforded Data Modeling in both relational and graph databases, including enterprise-wide data

architecture, and formulas for database design. Coverage of languages extends from an overview of operators, to SQL and QBE (Query by Example), to integrity constraints and more. A full chapter probes the challenges of Ensuring Data Consistency, covering: Multi-User Operation Troubleshooting Consistency in Massive Distributed Data Comparison of the ACID and BASE consistency models, and more System Architecture also gets from its own chapter, which explores Processing of Homogeneous and Heterogeneous Data; Storage and Access Structures; Multi-dimensional Data Structures and Parallel Processing with MapReduce, among other topics. Post-Relational and NoSQL Databases The chapter on post-relational databases discusses the limits of SQL – and what lies beyond, including Multi-Dimensional Databases, Knowledge Bases and Fuzzy Databases. A final chapter covers NoSQL Databases, along with Development of Non-Relational Technologies, Key-Value, Column-Family and Document Stores XML Databases and Graphic Databases, and more The book includes more than 100 tables, examples and illustrations, and each chapter offers a list of resources for further reading. SQL & NoSQL Databases conveys the strengths and weaknesses of relational and non-relational approaches, and shows how to undertake development for big data applications. The book benefits readers including students and practitioners working across the broad field of applied information technology. This textbook has been recommended and developed for university courses in Germany, Austria and Switzerland. The last 50 years have seen a tremendous progress in the research on quasars. From a time when quasars were unforeseen oddities, we have come to a view that considers quasars as active galactic nuclei, with nuclear activity a coming-of-age experienced by most or all galaxies in their evolution. We have passed from a few tens of known quasars of the early 1970s to the 500,000 listed in the catalogue of the Data Release 14 of the Sloan Digital Sky Survey. Not surprisingly, accretion processes on the central black holes in the nuclei of galaxies — the key concept in our understanding of quasars and active nuclei in general — have gained an outstanding status in present-day astrophysics. Accretion produces a rich spectrum of phenomena in all bands of the electromagnetic spectrum. The power output of highly-accreting quasars has impressive effects on their host galaxies. All the improvement in telescope light gathering and in computing power notwithstanding, we still miss a clear connection between observational properties and theory for quasars, as provided, for example, by the H-R diagram for stars. We do not yet have a complete self-consistent view of nuclear activity with predictive power, as we do for main-sequence stellar sources. At the same time quasars offer many “windows open onto the unknown”. On small scales, quasar properties depend on phenomena very close to the black hole event horizon. On large scales, quasars may effect evolution of host galaxies and their circum-galactic environments. Quasars’ potential to map the matter density of the Universe and help reconstruct the Universe’s spacetime geometry is still largely unexploited. The times are ripe for a critical assessment of our present knowledge of

quasars as accreting black holes and of their evolution across the cosmic time. The foremost aim of this research topic is to review and contextualize the main observational scenarios following an empirical approach, to present and discuss the accretion scenario, and then to analyze how a closer connection between theory and observation can be achieved, identifying those aspects of our understanding that are still on a shaky terrain and are therefore uncertain knowledge. This research topic covers topics ranging from the nearest environment of the black hole, to the environment of the host galaxies of active nuclei, and to the quasars as markers of the large scale structure and of the geometry of spacetime of the Universe. The spatial domains encompass the accretion disk, the emission and absorption regions, circum-nuclear starbursts, the host galaxy and its interaction with other galaxies. Systematic attention is devoted to some key problems that remain outstanding and are clearly not yet solved: the existence of two quasar classes, radio quiet and radio loud, and in general, the systematic contextualization of quasar properties the properties of the central black hole, the dynamics of the accretion flow in the inner parsecs and the origin of the accretion matter, the quasars' small and large scale environment, the feedback processes produced by the black hole into the host galaxy, quasar evolutionary patterns from seed black holes to the present-day Universe, and the use of quasars as cosmological standard candles. The timing is appropriate as we are now witnessing a growing body of results from major surveys in the optical, UV X, near and far IR, and radio spectral domains. Radio instrumentation has been upgraded to linear detector — a change that resembles the introduction of CCDs for optical astronomy — making it possible to study radio-quiet quasars at radio frequencies. Herschel and ALMA are especially suited to study the circum-nuclear star formation processes. The new generation of 3D magnetohydrodynamical models offers the prospective of a full physical modeling of the whole quasar emitting regions. At the same time, on the forefront of optical astronomy, applications of adaptive optics to long-slit spectroscopy is yielding unprecedented results on high redshift quasars. Other measurement techniques like 2D and photometric reverberation mapping are also yielding an unprecedented amount of data thanks to dedicated experiments and instruments. Thanks to the instrumental advances, ever growing computing power as well as the coming of age of statistical and analysis techniques, the smallest spatial scales are being probed at unprecedented resolution for wide samples of quasars. On large scales, feedback processes are going out of the realm of single-object studies and are entering into the domain of issues involving efficiency and prevalence over a broad range of cosmic epochs. The Research Topic "Quasars at all Cosmic Epochs" collects a large fraction of the contributions presented at a meeting held in Padova, sponsored jointly by the National Institute for Astrophysics, the Padova Astronomical Observatory, the Department of Physics and Astronomy of the University of Padova, and the Instituto de Astrofísica de Andalucía (IAA) of the Consejo Superior de Investigación Científica (CSIC). The meeting has been part of the events meant to celebrate the

250th anniversary of the foundation of the Padova Observatory.

International Conference on Remote Sensing and Wireless Communications (RSWC 2014) will be held from February 22nd to 23rd, 2014 in Shanghai, China. RSWC 2014 will bring together top researchers from Asian Pacific areas, North America, Europe and around the world to exchange research results and address open issues in all aspects of Remote Sensing and Wireless Communications. The RSWC 2014 welcomes the submission of original full research papers, short papers, posters, workshop proposals, tutorials, and industrial professional reports.

Can free speech coexist with an inclusive campus environment? Hardly a week goes by without another controversy over free speech on college campuses. On one side, there are increased demands to censor hateful, disrespectful, and bullying expression and to ensure an inclusive and nondiscriminatory learning environment. On the other side are traditional free speech advocates who charge that recent demands for censorship coddle students and threaten free inquiry. In this clear and carefully reasoned book, a university chancellor and a law school dean—both constitutional scholars who teach a course in free speech to undergraduates—argue that campuses must provide supportive learning environments for an increasingly diverse student body but can never restrict the expression of ideas. This book provides the background necessary to understanding the importance of free speech on campus and offers clear prescriptions for what colleges can and can't do when dealing with free speech controversies.

Discover the history, development, and use of EAD, EAC, and EAG Encoding Across Frontiers is a careful selection of the finest presentations from the European Conference on Encoded Archival Description and Context (EAD and EAC) held in Paris, France in October 2004. International experts explore the history and practical use of EAD in Europe, the development and future of EAC, and a data format for information about archive holders, Encoded Archival Guide (EAG). Archivists will learn the latest in technology, practical applications, and international perspectives on how to transcend the printed word. Archivists have long imagined the practical benefits of using advanced technologies in their work. Encoding Across Frontiers is a detailed look at the technologies that have been transforming archival description, revealing a future that travels beyond the limits of traditional media. Respected authorities discuss ways to use technology to bring information to a wider audience through online services, standardization of data, the development and use of EAD, the issues in EAD implementation, case studies of implementation from France and the United Kingdom, the need to structure contextual information to allow access to archival material, and funding issues. Topics in Encoding Across Frontiers include: the history, use, and spread of EAD in Europe development of standards for describing archive creators and archive holders—and the tool called Encoded Archival Guide (EAG) a case study of the Bodleian Library's conversion to EAD the status of training for archivists in the use of EAD an examination of MidosaxML in Germany as a

pilot application and tool the BASYS-Fox system and the scope of EAD in the Bundesarchiv EAD's capabilities as a tool for information created by different professional communities the sharing of descriptive standards between public archives and private collections a case study of the Metrica Regni Project in Poland four projects providing EAD users the means to control the quality of archival finding tools the Archives Départementales de la Côte-d'Or's decision to use a simple and efficient software package to publish online archival descriptions and the library catalogue a discussion of three different online services that provide federated access to finding aids in the United Kingdom the influence of American and European practices on EAD the relationship of EAD and EAC as data formats to national and international content standards the SIASFI Project and the Online Guide to the State Archives of Florence EAC and the development of national and European gateways to archives and so much more Encoding Across Frontiers is crucial reading for every archive professional at any level, archive students in training, and any allied library and museum professional with an interest in EAD, EAC, and EAG.

Provides examples and step-by-step instructions on creating HTML-DB applications.

A collection of original essays by leading philosophers dedicated to exploring many of the facets of Robert M. Adams's thought, a philosophical outlook that combines Christian theism, neo-Platonism, moral realism, metaphysical idealism, and a commitment to both historical sensitivity and rigorous analytic engagement.

At its most expansive, the Roman Empire stretched from the British Isles to Egypt; Rome was the ancient world's greatest superpower. Roman Architecture: A Visual Guide is an illustrated introduction to the great buildings and engineering marvels of Rome and its empire. Published as a companion volume to Diana E. E. Kleiner's course on Roman Architecture given through Coursera (first offered in January 2014 but based on a class she has long taught at Yale), this enhanced e-book explores not only Rome but also buildings preserved at Pompeii, Herculaneum, Ostia, Tivoli, North Italy, Sicily, France, Spain, Germany, Greece, Turkey, Croatia, Jordan, Lebanon, and North Africa. Beginning with the birth of Rome as an Iron Age village, Roman Architecture traces the growth and expansion of the Roman Empire through its cities, which featured civic, religious, commercial, entertainment, and residential districts in the urban setting. A valuable resource for both the student and the traveler, Roman Architecture features over 250 photographs and site plans of the most intriguing and consequential buildings in the Roman Empire. These are presented from the fresh perspective of an author who has journeyed to nearly all of the sites, revealing most of them through her own digital images. In addition, this interactive e-book makes learning about these monuments easier than ever, with handy maps and geolocation links that show you just where the monuments are and, if you're traveling, how to get there. Suitable for the classroom and as a guidebook, Roman Architecture is a fascinating introduction to some of history's most compelling and influential architecture.

Over one hundred presentations from the 36th annual Charleston Library Conference (held November 1-5, 2016) are included in this annual proceedings volume. Major themes of the meeting included data visualization, streaming video, analysis and assessment, demand-driven acquisition, and open access publishing. While the Charleston meeting remains a core one for acquisitions librarians in dialog with publishers

and vendors, the breadth of coverage of this volume reflects the fact that this conference is now one of the major venues for leaders in the publishing and library communities to shape strategy and prepare for the future. Almost 2,000 delegates attended the 2016 meeting, ranging from the staff of small public library systems to the CEOs of major corporations. This fully indexed, copyedited volume provides a rich source for the latest evidence-based research and lessons from practice in a range of information science fields. Contributors comprise leaders in the library, publishing, and vendor communities.

Now in use at over 300 colleges and universities, *Essentials of Global Health* is the first comprehensive text designed for introductory, undergraduate global health courses at two and four year colleges, as well those enrolled in online learning and others new to the field. *Essentials of Global Health* is a clear, concise, and user-friendly introduction to the most critical issues in global health. It illustrates key themes with an extensive set of case studies, examples, and the latest evidence. While the book offers a global perspective, particular attention is given to the health-development link, to developing countries, and to the health needs of poor and disadvantaged people. *Essentials of Global Health* builds on the success of an introductory global health course taught by the author at the George Washington School of Public Health and Health Services. *Essentials of Global Health* is ideal suited for the the Association of American Colleges and Universities recommended course: Global Health 101. Richard Skolnik is the winner of numerous honors for teaching, has taught global health for 8 years, and has more than 30 years of experience as a global health practitioner in multilateral, university, and NGO settings. He has been actively involved in dealing with critical issues in global health at country level and at the highest levels of international health policy making. Learn more about the author. “Richard Skolnik's *Essentials of Global Health* is so comprehensive that it will be key reading in international health. In accessible language, he explains why good health is crucial to economic development, what indicators help track changes in global health, and requirements for good health systems. Approaches to solving world health problems must be under pinned by good ethics and human rights guidelines, he says, and local practices and cultures must not be ignored. Skolnik looks in detail at children's and women's health, and at the different challenges of tackling communicative and non-communicative disease in developing countries. He also maps out the key players in global health and looks ahead to future challenges.” —The Lancet, October 2007 The book is organized in four parts: - Principles, Measurements, and the Health-Development Link: The principles of Global Health; Health Determinants, Measurements, and Trends; and Health, Education, Poverty, and the Economy. - Cross-Cutting Global Health Themes: Human Rights, Ethics, and Global Health; An Introduction to Health Systems; and Culture and Health. - The Burden of Disease: The Environment and Health; Nutrition and Health; Women’s Health; Child Health; Infectious Diseases; Non-Communicable Diseases; and Unintentional Injuries. - Working Together to Improve Global Health: Conflicts, Natural Disasters, and Other Emergencies; Cooperating to Improve Global Health; and, Science Technology, and the Public’s Health.” Instructor Resources - Detailed Syllabus, updated each semester - Test Presents an instructional guide to SQL which uses humor and simple images to cover such topics as the structure of relational databases, simple and complex queries, creating multiple tables, and protecting important table data.

Advances in Computing and Data Sciences 5th International Conference, ICACDS 2021, Nashik, India, April 23–24, 2021, Revised Selected Papers, Part II Springer Nature

The authors tell the epic story of the universe from an inspired new perspective, weaving the findings of modern science together with enduring wisdom found in the humanistic traditions of the West, China, India, and indigenous peoples. This book is part of a larger project that includes a documentary film, educational DVD series, and [Web site](#).

This two-volume book constitutes the post-conference proceedings of the 5th International Conference on Advances in Computing and Data Sciences, ICACDS 2021, held in Nashik, India, in April 2021.\* The 103 full papers were carefully reviewed and selected from 781 submissions. Part II is devoted to data sciences, organizing principles, medical technologies, computational linguistics etc. \*The conference was held virtually due to the COVID-19 pandemic.

A pronounced move from print subscriptions to electronic resources in all types of libraries has fundamentally impacted the library and its users. With the influx of resources such as e-journals; e-books; index, abstract, and/or full-text databases; aggregated databases; and others, the shift to electronic resources is rapidly changing library operational and organizational procedures. Electronic Resource Management in Libraries: Research and Practice provides comprehensive coverage of the issues, methods, theories, and challenges connected with the provision of electronic resources in libraries, with emphasis on strategic planning, operational guidelines, and practices. This book primarily focuses on management practices of the life-cycle of commercially acquired electronic resources from selection and ordering to cataloging, Web presentation, user support, usage evaluation, and more.

The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries. Challenges associated with the analysis, security, sharing, storage, and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data. Big Data: Concepts, Methodologies, Tools, and Applications is a multi-volume compendium of research-based perspectives and solutions within the realm of large-scale and complex data sets. Taking a multidisciplinary approach, this publication presents exhaustive coverage of crucial topics in the field of big data including diverse applications, storage solutions, analysis techniques, and methods for searching and transferring large data sets, in addition to security issues. Emphasizing essential research in the field of data science, this publication is an ideal reference source for data analysts, IT professionals, researchers, and academics.

Natural language processing (NLP) is a branch of artificial intelligence that has emerged as a prevalent method of practice for a sizeable amount of companies. NLP enables software to understand human language and process complex data that is generated within businesses. In a competitive market, leading organizations are showing an increased interest in implementing this technology to improve user experience and establish smarter decision-making methods. Research on the application of intelligent analytics is crucial for professionals and companies who wish to gain an edge on the opposition. The Handbook of Research on Natural Language Processing and Smart Service Systems is a collection of innovative research on the integration and development of intelligent software tools and their various applications within professional environments. While highlighting topics including discourse analysis, information retrieval, and advanced dialog systems, this book is ideally designed for developers, practitioners, researchers, managers, engineers, academicians, business professionals, scholars, policymakers, and students seeking current research on the improvement of competitive practices through the use of NLP and smart service systems.

Want to understand a certain PHP programming technique? Or learn how to accomplish a particular task? This cookbook is the first place to look. With more than 350 code-rich recipes revised for PHP 5.4 and 5.5, this third edition provides updated solutions for generating dynamic web content—everything from using basic data types to querying databases, and from calling RESTful APIs to testing and securing your site. Each recipe includes code solutions that you can freely use, along with a discussion of how and why they work. Whether you're an experienced PHP programmer or coming to PHP from another language, this book is an ideal on-the-job resource. You'll find recipes to help

you with: Basic data types: strings, numbers, arrays, and dates and times Program building blocks: variables, functions, classes, and objects Web programming: cookies, forms, sessions, and authentication Database access using PDO, SQLite, and other extensions RESTful API clients and servers, including HTTP, XML, and OAuth Key concepts: email, regular expressions, and graphics creation Designing robust applications: security and encryption, error handling, debugging and testing, and performance tuning Files, directories, and PHP's Command Line Interface Libraries and package managers such as Composer and PECL

This book constitutes the refereed proceedings of six workshops of the 14th International Conference on Web-Age Information Management, WAIM 2013, held in Beidaihe, China, June 2013. The 37 revised full papers are organized in topical sections on the six following workshops: The International Workshop on Big Data Management on Emerging Hardware (HardBD 2013), the Second International Workshop on Massive Data Storage and Processing (MDSP 2013), the First International Workshop on Emergency Management in Big Data Age (BigEM 2013), the International Workshop on Trajectory Mining in Social Networks (TMSN 2013), the First International Workshop on Location-based Query Processing in Mobile Environments (LQPM 2013), and the First International Workshop on Big Data Management and Service (BDMS 2013).

Understanding the complexity of tacit knowledge has become increasingly important to the enhancement of organizational flow. Tacit Knowledge in Organizational Learning aims to advocate the need for ?human factor? consideration from a (tacit) knowledge capital point of view. Tacit Knowledge in Organizational Learning offers academicians and practitioners an illustration of the importance of tacit knowledge to an organization, presenting a means to measure and track tacit knowledge in individuals and recommendations on firm attributes and their ideal utilization of the tacit knowledge resource.

As the age of Big Data emerges, it becomes necessary to take the five dimensions of Big Data- volume, variety, velocity, volatility, and veracity- and focus these dimensions towards one critical emphasis - value. The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal. Presents the fundamental concepts of database management. This text is suitable for a first course in databases at the junior/senior undergraduate level or the first year graduate level.

Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business, and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed. Enter Hadoop and this easy-to-understand For Dummies guide. Hadoop For Dummies helps readers understand the value of big data, make a business case for using Hadoop, navigate the Hadoop ecosystem, and build and manage Hadoop applications and clusters. Explains the origins of Hadoop, its economic benefits, and its functionality and practical applications Helps you find your way around the Hadoop ecosystem, program MapReduce, utilize design patterns, and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining, web analytics and personalization, large-scale text processing, data science, and problem-solving Shows you how to improve the value of your Hadoop cluster, maximize your investment in Hadoop, and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable, scalable data systems to administrators who must deal with huge volumes of information effectively and efficiently, this how-to has something to help you with Hadoop.

Imagine what you could do if scalability wasn't a problem. With this hands-on guide, you'll learn how the Cassandra database management system handles hundreds of terabytes of data while remaining highly available across multiple data centers. This third edition—updated for Cassandra 4.0—provides the technical details and practical examples you need to put this database to work in a production environment. Authors Jeff Carpenter and Eben Hewitt demonstrate the advantages of Cassandra's nonrelational design, with special attention to data modeling. If you're a developer, DBA, or application architect looking to solve a database scaling issue or future-proof your application, this guide helps you harness Cassandra's speed and flexibility. Understand Cassandra's distributed and decentralized structure Use the Cassandra Query Language (CQL) and cqlsh—the CQL shell Create a working data model and compare it with an equivalent relational model Develop sample applications using client drivers for languages including Java, Python, and Node.js Explore cluster topology and learn how nodes exchange data

Advances in computers and communications have revolutionised the way we live. This has happened in a short span of sixty-five years. Today we wonder how people lived without access to mobile phones and the Internet. • This book seeks to answer the following questions lucidly to a non-specialist general reader: • How did this revolution happen? • What groundbreaking inventions led to this revolution? • Why are they groundbreaking inventions? • Who were the innovators and inventors of these technologies? • What led them to these inventions? Fifteen groundbreaking inventions: Fortran, Integrated Circuits, Relational Database Management Systems, Local Area Networks, Personal Computers, Public Key Encryption, Computer Graphics, Internet, GPS, World Wide Web, Search Engines, Digitisation and Compression of Multimedia, Mobile Computing, Cloud Computing, and Deep Learning (AI) are described cogently by Professor V. Rajaraman, a doyen of Computer Science education and research in India. TARGET AUDIENCE • Students, academicians, professionals in the field of ICT • Anyone who wants to know about ICT

Recently, cryptology problems, such as designing good cryptographic systems and analyzing them, have been challenging researchers. Many algorithms that take advantage of approaches based on computational intelligence techniques, such as genetic algorithms, genetic programming, and so on, have been proposed to solve these issues. Implementing Computational Intelligence Techniques for Security Systems Design is an essential research book that explores the application of computational intelligence and other advanced techniques in information security, which will contribute to a better understanding of the factors that influence successful security systems design. Featuring a range of topics such as encryption, self-healing systems, and cyber fraud, this book is ideal for security analysts, IT specialists, computer engineers, software developers, technologists, academicians, researchers, practitioners, and students.

The three-volume set LNCS 12681-12683 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2021, held in Taipei, Taiwan, in April 2021. The total of 156 papers presented in this three-volume set was carefully reviewed and selected from 490 submissions. The topic areas for the selected papers include information retrieval, search and recommendation techniques; RDF, knowledge graphs, semantic web, and knowledge management; and spatial, temporal, sequence, and streaming data management, while the dominant keywords are network, recommendation, graph, learning, and model. These topic areas and keywords shed the light on the direction where the research in DASFAA is moving towards. Due to the Corona pandemic this event was held virtually.

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