

# Next Generation Databases

NoSQL, NewSQL, and Big Data

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What every professional needs to know  
about the future of databases in a world  
of NoSQL and Big Data

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Guy Harrison

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# Next Generation Databases Nosqland Big Data

**Ekren, Gülay, Erkollar, Alptekin, Oberer,  
Birgit**

## **Next Generation Databases Nosqland Big Data:**

Next Generation Databases Guy Harrison, 2015-12-30 It is not easy to find such a generous book on big data and databases. Fortunately, this book is the one. Feng Yu Computing Reviews June 28 2016 This is a book for enterprise architects, database administrators and developers who need to understand the latest developments in database technologies. It is the book to help you choose the correct database technology at a time when concepts such as Big Data, NoSQL and NewSQL are making what used to be an easy choice into a complex decision with significant implications. The relational database (RDBMS) model completely dominated database technology for over 20 years. Today, this one-size-fits-all stability has been disrupted by a relatively recent explosion of new database technologies. These paradigm-busting technologies are powering the Big Data and NoSQL revolutions, as well as forcing fundamental changes in databases across the board. Deciding to use a relational database was once truly a no-brainer, and the various commercial relational databases competed on price, performance, reliability and ease of use rather than on fundamental architectures. Today we are faced with choices between radically different database technologies. Choosing the right database today is a complex undertaking with serious economic and technological consequences. Next Generation Databases demystifies today's new database technologies. The book describes what each technology was designed to solve. It shows how each technology can be used to solve real-world application and business problems. Most importantly, this book highlights the architectural differences between technologies that are the critical factors to consider when choosing a database platform for new and upcoming projects. Introduces the new technologies that have revolutionized the database landscape. Describes how each technology can be used to solve specific application or business challenges. Reviews the most popular new-wave databases and how they use these new database technologies.

**Big Data** Dawn E. Holmes, 2017-11-16 Since long before computers were even thought of, data has been collected and organized by diverse cultures across the world. Once access to the Internet became a reality for large swathes of the world's population, the amount of data generated each day became huge and continues to grow exponentially. It includes all our uploaded documents, video and photos, all our social media traffic, our online shopping, even the GPS data from our cars. Big Data represents a qualitative change, not simply a quantitative one. The term refers both to the new technologies involved and to the way it can be used by business and government. Dawn E. Holmes uses a variety of case studies to explain how data is stored, analysed and exploited by a variety of bodies, from big companies to organizations concerned with disease control. Big data is transforming the way businesses operate and the way medical research can be carried out. At the same time, it raises important ethical issues. Holmes discusses cases such as the Snowden affair, data security and domestic smart devices which can be hijacked by hackers. ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas and enthusiasm to make interesting

and challenging topics highly readable      Innovating and Integrating Emerging Technologies Hamed Taherdoost, 2025-07-01 This book explores all aspects of innovation including funding business strategies and real world uses for game changing technologies like blockchain IoT AI and big data Learn about the fundamentals of cloud computing explore the moral implications of virtual reality comprehend the complexities of quantum computing and explore the domains of robotics 3D printing and 6G technology The book covers each technology s foundations uses and future developments The author makes complicated subjects easier to understand by using reader friendly language tables and graphics The intricacies of these technologies will become clear to readers enabling them to capitalize on innovation s promise for both career and personal growth if supportLists Explores emerging technologies from blockchain and AI to 3D printing and smart cities if supportLists Integrates business ethics social impacts and regulatory considerations into discussions of innovation if supportLists Combines practical experience with trustworthy and valuable insights for readers at all levels of expertise

Distributed Computing and Artificial Intelligence, Special Sessions I, 21st International Conference Rashid Mehmood,Guillermo Hernández,Isabel Praça,Jaroslav Wikarek,Roussanka Loukanova,Arsénio Monteiro dos Reis,Antonio Skarmeta,Eleonora Lombardi, 2025-03-10 This book presents applications of innovative techniques for studying and solving complex problems in artificial intelligence and computing This edition brings together experience current work and promising future trends related to distributed computing artificial intelligence and their applications to provide efficient solutions to real world problems Given the conference s success this edition features twelve special sessions covering a wide range of topics related to AI and other areas of interest These sessions were carefully curated to address the latest advancements and challenges in fields such as machine learning neural networks IoT big data and blockchain among others The accepted papers from these sessions are presented in two volumes showcasing the diverse and innovative research being conducted in these domains This is the first volume which includes the sessions Artificial intelligence for enhanced cyber security AI4CS AI driven methods for multimodal networks and processes modeling AIMP computational linguistics information reasoning and AI CLIRAI novel technologies for smart industry and mobility SmartMob intelligent Internet of things security and privacy WISP and revolutionizing carbon farming by nature based business models and emerging innovations in the field of artificial intelligence satellite and green technologies INNO4CFIS each focusing on specific themes within the broader scope of AI and its applications The DCAI 24 technical program has selected 74 papers in special sessions and as in past editions it will be special issues in ranked journals This symposium is organized by the University of Salamanca Spain The authors would like to thank all the contributing authors the program committee members national associations AEPIA APPIA LASI and the sponsors AIR Institute      *Bridging Horizons in Artificial Intelligence, Robotics, Cybersecurity, Smart Cities, and Digital Economy* Klodian Dhoska,Evjola Spaho, 2025-03-15 This book aims to foster interdisciplinary research among industry and academic participants and form long term strategic links It provides a presentation of new

knowledge and development through the exchange of practical experience between industry scientific institutes and business The carefully selected conference themes have been chosen to engender these in the fields of engineering industry information technology business economics and finance and applied sciences This book aims to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of artificial intelligence cybersecurity robotics and automation smart technologies data analytics and data science network and communication cloud and mobile computing Internet of things virtual augmented and mixed reality technology in applied science digital economy management and business finance and accounting statistics and econometrics economics and social sciences

**Unlocking the Secrets of Soil** David C. Weindorf,Somsubhra Chakraborty,Bin Li,2025-06-03 Unlocking the Secrets of the Soil Applying AI and Sensor Technologies for Sustainable Land Use is a comprehensive guide to the latest advances in soil characterization This book explores the role of sensors and artificial intelligence in improving soil management practices and supporting sustainable land use Through detailed descriptions of sensor and AI based techniques for measuring physical chemical and biological soil properties readers will gain a deep understanding of the tools and technologies available for soil characterization The book also covers the latest machine learning algorithms and image processing for analyzing soil data and making informed decisions about land use Unlocking the Secrets of the Soil is an essential resource for researchers practitioners and students interested in the intersection of AI and sensor technologies for soil management and sustainability Provides an integration of AI and Sensor technologies Highlights the importance of sustainable land use and the role that modern technologies can play in achieving this goal Presents an interdisciplinary approach drawing on expertise from various fields such as agriculture environmental science and computer science

*Modeling and Processing for Next-Generation Big-Data Technologies* Fatos Xhafa,Leonard Barolli,Admir Barolli,Petraq Papajorgji,2014-11-04 This book covers the latest advances in Big Data technologies and provides the readers with a comprehensive review of the state of the art in Big Data processing analysis analytics and other related topics It presents new models algorithms software solutions and methodologies covering the full data cycle from data gathering to their visualization and interaction and includes a set of case studies and best practices New research issues challenges and opportunities shaping the future agenda in the field of Big Data are also identified and presented throughout the book which is intended for researchers scholars advanced students software developers and practitioners working at the forefront in their field

**Comprehensive Geographic Information Systems** ,2017-07-21 Geographical Information Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth s surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline

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Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications Emphasizes the practical socioeconomic applications of GIS Provides readers with a reliable one stop comprehensive guide saving them time in searching for the information they need from different sources

**Intelligent Systems in Production Engineering and Maintenance - ISPEM 2017** Anna Burduk, Dariusz Mazurkiewicz, 2017-08-16 The volume presents a collection of 44 peer reviewed articles from the First International Conference on Intelligent Systems in Production Engineering and Maintenance ISPEM 2017 ISPEM 2017 was organized by the Faculty of Mechanical Engineering Wroc aw University of Science and Technology and was held in Wroc aw Poland on 28 29 September 2017 The main topics of the conference included the possibility of using widely understood intelligent methods in production engineering New solutions for innovative plants research results and case studies taking into account advances in production and maintenance from the point of view of Industry 4 0 were presented and discussed with special attention paid to applications of intelligent systems methods and tools in production engineering maintenance logistics quality management information systems and product development The volume is divided into two parts 1 Intelligent Systems in Production Engineering 2 Intelligent Systems in Maintenance This book is an excellent reference resource for scientists in the field of manufacturing engineering and for top managers in production enterprises

*Principles of Database Management* Wilfried Lemahieu, Seppe vanden Broucke, Bart Baesens, 2018-07-12 This comprehensive textbook teaches the fundamentals of database design modeling systems data storage and the evolving world of data warehousing governance and more Written by experienced educators and experts in big data analytics data quality and data integration it provides an up to date approach to database management This full color illustrated text has a balanced theory practice focus covering essential topics from established database technologies to recent trends like Big Data NoSQL and more Fundamental concepts are supported by real world examples query and code walkthroughs and figures making it perfect for introductory courses for advanced undergraduates and graduate students in information systems or computer science These examples are further supported by an online playground with multiple learning environments including MySQL MongoDB Neo4j Cypher and tree structure visualization This combined learning approach connects key concepts throughout the text to the important practical tools to get started in database management

*New Trends in Database and Information Systems* Panos K. Chrysanthis, Kjetil Nørvåg, Kostas Stefanidis, Zheyang Zhang, Elisa Quintarelli, Ester Zumpano, 2025-09-21 This book constitutes short papers Doctoral Consortium and workshop

papers which were presented at the 29th European Conference on New Trends in Databases and Information Systems ADBIS 2025 which took place in Tampere Finland during September 23-26, 2025. This CCIS proceedings book contains 14 short papers and 3 demo papers from the main ADBIS 2025 conference. In addition, 24 out of 48 papers submitted to the workshops are included in this book. The papers have been organized in topical sections as follows: Query Optimization, Spatio Temporal Data Sharing, Entity Resolution, Doctoral Consortium, School Invited Talks, MADEISD 2025 7th Workshop on Modern Approaches in Data Engineering and Information System Design, DOING 2025 6th Workshop on Intelligent Data From Data to Knowledge, KGALS 2025 4th Workshop on Knowledge Graphs Analysis on a Large Scale, CAIMA 2025 1st Workshop on Cooperative AI Models and Applications, ERGA 2025 1st Workshop on Entity Resolution and Graph Alignment, FEHDA 2025 1st Workshop on Fairness Exploration in Heterogeneous Data and Algorithms and IT4TOCI 2025 1st Workshop on Information Technology for Tourism and Culture Industries.

Bridging Relational and NoSQL Databases Gaspar, Drazena, Coric, Ivica, 2017-11-30. Relational databases have been predominant for many years and are used throughout various industries. The current system faces challenges related to size and variety of data, thus the NoSQL databases emerged. By joining these two database models, there is room for crucial developments in the field of computer science. Bridging Relational and NoSQL Databases is an innovative source of academic content on the convergence process between databases and describes key features of the next database generation. Featuring coverage on a wide variety of topics and perspectives such as BASE approach, CAP theorem, and hybrid and native solutions, this publication is ideally designed for professionals and researchers interested in the features and collaboration of relational and NoSQL databases.

Benchmarking, Measuring, and Optimizing Chen Zheng, Jianfeng Zhan, 2019-10-15. This book constitutes the refereed proceedings of the First International Symposium on Benchmarking Measuring and Optimization Bench 2018 held in Seattle, WA, USA, in December 2018. The 20 full papers presented were carefully reviewed and selected from 51 submissions. The papers are organized in topical sections named: AI Benchmarking, Cloud, Big Data Modelling and Prediction, and Algorithm and Implementations.

*Advanced MIS and Digital Transformation for Increased Creativity and Innovation in Business* Ekren, Gülay, Erkollar, Alptekin, Oberer, Birgit, 2019-09-27. As businesses undergo digital transformation, technologies will lead to greater efficiencies and change how we interact in traditional relationships among suppliers, producers, and customers, as well as between human and machine. One such technology is the introduction of management information systems (MIS) that provide a company with the coordination, control, analysis, and visualization of information by collecting from various digital environments. In today's digital age, information needs to be managed, and MIS have the ability to transfer the information obtained by computer systems to the business operations within the business models, business processes, and management functions. *Advanced MIS and Digital Transformation for Increased Creativity and Innovation in Business* is an essential reference source that discusses the impact of digital technologies in enterprises and their competitive environment on management information systems and

examines the application of new technologies to support strategic decisions and realize exciting visions Featuring research on topics such as machine learning resource planning and e commerce this book is ideally designed for managers executives IT specialists analysts business professionals training officers software engineers business administrators scholars researchers and practitioners seeking coverage on future trends issues and challenges in relation to management information systems

**Understanding the Predictive Analytics Lifecycle** Alberto Cordoba,2014-07-30 A high level informal look at the different stages of the predictive analytics cycle Understanding the Predictive Analytics Lifecycle covers each phase of the development of a predictive analytics initiative Through the use of illuminating case studies across a range of industries that include banking megaresorts mobile operators healthcare manufacturing and retail the book successfully illustrates each phase of the predictive analytics cycle to create a playbook for future projects Predictive business analytics involves a wide variety of inputs that include individuals skills technologies tools and processes To create a successful analytics program or project to gain forward looking insight into making business decisions and actions all of these factors must properly align The book focuses on developing new insights and understanding business performance based on extensive use of data statistical and quantitative analysis explanatory and predictive modeling and fact based management as input for human decisions The book includes An overview of all relevant phases design prepare explore model communicate and measure Coverage of the stages of the predictive analytics cycle across different industries and countries A chapter dedicated to each of the phases of the development of a predictive initiative A comprehensive overview of the entire analytic process lifecycle If you re an executive looking to understand the predictive analytics lifecycle this is a must read resource and reference guide

***A Deep Dive into NoSQL Databases: The Use Cases and Applications*** ,2018-04-20 A Deep Dive into NoSQL Databases The Use Cases and Applications Volume 109 the latest release in the Advances in Computers series first published in 1960 presents detailed coverage of innovations in computer hardware software theory design and applications In addition it provides contributors with a medium in which they can explore their subjects in greater depth and breadth This update includes sections on NoSQL and NewSQL databases for big data analytics and distributed computing NewSQL databases and scalable in memory analytics NoSQL web crawler application NoSQL Security a Comparative Study of different In Memory No New SQL Databases NoSQL Hands On 4 NoSQLs the Hadoop Ecosystem and more Provides a very comprehensive yet compact book on the popular domain of NoSQL databases for IT professionals practitioners and professors Articulates and accentuates big data analytics and how it gets simplified and streamlined by NoSQL database systems Sets a stimulating foundation with all the relevant details for NoSQL database researchers developers and administrators

**High-Performance Big-Data Analytics** Pethuru Raj,Anupama Raman,Dhivya Nagaraj,Siddhartha Duggirala,2015-10-16 This book presents a detailed review of high performance computing infrastructures for next generation big data and fast data analytics Features includes case studies and learning activities throughout the book and



self study exercises in every chapter presents detailed case studies on social media analytics for intelligent businesses and on big data analytics BDA in the healthcare sector describes the network infrastructure requirements for effective transfer of big data and the storage infrastructure requirements of applications which generate big data examines real time analytics solutions introduces in database processing and in memory analytics techniques for data mining discusses the use of mainframes for handling real time big data and the latest types of data management systems for BDA provides information on the use of cluster grid and cloud computing systems for BDA reviews the peer to peer techniques and tools and the common information visualization techniques used in BDA

**The Caterpillar's Edge** Sid Mohasseb,2017-02-28 Business leaders large and small need to learn a new game with very different rules They must accept an ever changing and uncertain landscape but a landscape that can be constantly leveraged for greater profitability They must believe that their companies are caterpillars with the potential to become butterflies The Caterpillar s Edge shows why we must embrace a future of flux It exposes the addictions that chain us to our past and the truths that influence our behaviors And it shows just how to seize breakthrough advantages by pushing through all the noise around big data Within its DNA the caterpillar aspires and pushes for more and it gets just that evolving gracefully from one entity into another always building a competitive edge in the process Break free from accepted archaic business practices by cracking that secret code which demands evolving your business always

Innovative Research and Applications in Next-Generation High Performance Computing Hassan, Qusay F.,2016-07-05 High performance computing HPC describes the use of connected computing units to perform complex tasks It relies on parallelization techniques and algorithms to synchronize these disparate units in order to perform faster than a single processor could alone Used in industries from medicine and research to military and higher education this method of computing allows for users to complete complex data intensive tasks This field has undergone many changes over the past decade and will continue to grow in popularity in the coming years Innovative Research Applications in Next Generation High Performance Computing aims to address the future challenges advances and applications of HPC and related technologies As the need for such processors increases so does the importance of developing new ways to optimize the performance of these supercomputers This timely publication provides comprehensive information for researchers students in ICT program developers military and government organizations and business professionals

**SQL Database Mastery: Relational Architectures, Optimization Techniques, and Cloud-Based Applications** Mohanraju Muppala,2025-07-27 SQL remains at the core of modern data management powering mission critical systems across industries This book SQL Database Mastery Architecture Optimization and Real World Applications bridges foundational concepts with advanced techniques to help readers design optimize and manage relational databases effectively Drawing from years of practical experience in marine IT and enterprise systems this book combines technical depth with hands on relevance Topics range from relational theory indexing and normalization to cloud SQL platforms dynamic queries and performance tuning Real world use cases and

best practices are included to ensure practical application of each concept Whether you re a student developer or database architect this guide aims to support your journey toward mastering SQL in today s data driven world I am grateful to my peers in the field of Marine IT Technology and AI based data systems who have inspired and supported the development of this book I hope it serves as a valuable guide in your journey toward mastering the architecture and optimization of relational databases in an era where data is more critical than ever

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