

the43rd International Conference on Very Large Databases (VLDB 2017) in August/September 2017. The 12 papers presented were carefully reviewed and selected from numeroussubmissions. The TPC remains committed to developing new benchmark standards to keep pace with these rapid changes in technology.

Uncover the power of MySQL 8 for Big Data About This Book Combine the powers of MySQL and Hadoop to build a solid Big Data solution for your organization Integrate MySQL with different NoSQL APIs and Big Data tools such as Apache Sqoop A comprehensive guide with practical examples on building a high performance Big Data pipeline with MySQL Who This Book Is For This book is intended for MySQL database administrators and Big Data professionals looking to integrate MySQL 8 and Hadoop to implement a high performance Big Data solution. Some previous experience with MySQL will be helpful, although the book will highlight the newer features introduced in MySQL 8. What You Will Learn Explore the features of MySQL 8 and how they can be leveraged to handle Big Data Unlock the new features of MySQL 8 for managing structured and unstructured Big Data Integrate MySQL 8 and Hadoop for efficient data processing Perform aggregation using MySQL 8 for optimum data utilization Explore different kinds of join and union in MySQL 8 to process Big Data efficiently Accelerate Big Data processing with Memcached Integrate MySQL with the NoSQL API Implement replication to build highly available solutions for Big Data In Detail With organizations handling large amounts of data on a regular basis, MySQL has become a popular solution to handle this structured Big Data. In this book, you will see how DBAs can use MySQL 8 to handle billions of records, and load and retrieve data with performance comparable or superior to commercial DB solutions with higher costs. Many organizations today depend on MySQL for their websites and a Big Data solution for their data archiving, storage, and analysis needs. However, integrating them can be challenging. This book will show you how to implement a successful Big Data strategy with Apache Hadoop and MySQL 8. It will cover real-time use case scenario to explain integration and achieve Big Data solutions using technologies such as Apache Hadoop, Apache Sqoop, and MySQL Applier. Also, the book includes case studies on Apache Sqoop and real-time event processing. By the end of this book, you will know how to efficiently use MySQL 8 to manage data for your Big Data applications. Style and approach Step by Step guide filled with real-world practical examples. This book constitutes the thoroughly refereed proceedings of the CAiSE Forum 2019 held in Rome, Italy, as part of the 31st International Conference on Advanced Information Systems Engineering, CAiSE 2019, in June 2019. The CAiSE Forum - one of the traditional tracks of the CAiSE conference - aims to present emerging new topics and controversial positions, as well as demonstration of innovative systems, tools and applications related to information systems engineering. This year’s theme was “Responsible Information Systems”. The 19 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 14 direct submissions (of which 7 full papers were selected), plus 15 transfers from the CAiSE main conference (which resulted in another 12 full and 3 short papers).

Python 3 - Einsteigen und Durchstarten ICANI-2018

9th TPC Technology Conference, TPCTC 2017, Munich, Germany, August 28, 2017, Revised Selected Papers Internet of Things and Big Data Applications Principles of Database Management

Exploring the Convergence of Big Data and the Internet of Things Frontiers of Cyberlearning

This book features a collection of high-quality, peer-reviewed research papers presented at the 8th International Conference on Innovations in Computer Science & Engineering (ICICSE 2020), held at Guru Nanak Institutions, Hyderabad, India, on 28-29 August 2020. It covers the latest research in data science and analytics, cloud computing, machine learning, data mining, big data and analytics, information security and privacy, wireless and sensor networks and IoT applications, artificial intelligence, expert systems, natural language processing, image processing, computer vision and artificial neural networks.

This book demonstrates teachers' and learners' experiences with big data in education; education and cloud computing; and new technologies for teacher support. It also discusses the advantages of using these frontier technologies in teaching and learning and predicts the future challenges. As such, it enables readers to better understand how technologies can improve learning and teaching experiences. It is intended for graduates and scholars in educational technology disciplines and anyone interested in the applications of frontier technologies in education.

This book discusses the revolution of cycles and rhythms that is expected to take place in different branches of science and engineering in the 21st century, with a focus on communication and information processing. It presents high-quality papers in vibration sciences, rhythms and oscillations, neurosciences, mathematical sciences, and communication. It includes major topics in engineering and structural mechanics, computer sciences, biophysics and biomathematics, as well as other related fields. Offering valuable insights, it also inspires researchers to work in these fields. The papers included in this book were presented at the 1st International Conference on Engineering Vibration, Communication and Information Processing (ICoEVCI-2018), India.

The growth of Internet use and technologies has increased exponentially within the business sector. When utilized properly, these applications can enhance business functions and make them easier to perform. Exploring the Convergence of Big Data and the Internet of Things is a pivotal reference source featuring the latest empirical research on the business use of computing devices to send and receive data in conjunction with analytic applications to reduce maintenance costs, avoid equipment failures, and improve business operations. Including research on a broad range of topics such as supply chain, aquaculture, and speech recognition systems, this book is ideally designed for researchers, academicians, and practitioners seeking current research on various technology uses in business.

ICoEVCI 2018, India

Advanced Information Systems Engineering

Big Data and Analytics

Beispiellösungen mit Hadoop und NoSQL. Daten speichern, aufbereiten, visualisieren

Emerging Perspectives in Big Data Warehousing

Big Data in der Praxis

Expert techniques for architecting end-to-end big data solutions to get valuable insights

SQL SERVER 2014 FÜR PROFESSIONALS // - Für Administratoren in mittleren und großen Unternehmen, IT-Architekten und IT-Berater - Umfassendes Know-how zu Planung, Umsetzung & Administration - Von erweiterten Grundlagen bis zu Cloud-Szenarien - Mit Tipps und Anleitungen IT-Professionals, die mit Planung, Umsetzung und/oder Wartung des SQL Servers zu tun haben, finden mit diesem Buch ihren optimalen Begleiter. Zu jedem einzelnen Thema werden Sie über Hintergründe, Funktions- und konzeptionelle Vorgehensweisen informiert und erhalten anschließend eine praxisorientierte Anleitung für die Umsetzung. In konkreten Business-Szenarien beschreibt Ulrich B. Boddenberg auf Basis seiner geballten Erfahrung, wie Sie mit SQL Server eine optimale Datenbank-Infrastruktur aufbauen. Dabei wird bei jedem Thema auch das Für und Wider der jeweiligen Technik bzw. Vorgehensweise aufgezeigt, so dass Sie selbst klare Entscheidungen treffen können. Das Buch bietet Ihnen einen thematisch ganzheitlichen Überblick, von Ausfallsicherheit und Performance bis zu den Abhängigkeiten von der Hardware, von Cloud-Szenarien und Monitoring bis zum Troubleshooting. AUS DEM INHALT // Erweiterte Grundlagen: Instanzen, Identitäten, Kerberos ... // Hardware & Lizenzen // Hochverfügbarkeit: Virtualisierung, AlwaysOn-Verfügbarkeitsgruppen, Failoverclustering // Datensicherung: mit Bordmitteln oder mit Microsoft Data Protection Manager // SQL Server in der Azure-Cloud: virtuelle Maschinen, Azure-Storage, Azure-VM // Überwachung und Monitoring: warum und mit welchen Werkzeugen? // Troubleshooting: allgemeine Fehlersuche, Performance messen, Abfragen analysieren ... // Replikation von Datenbanken

Clouds are being positioned as the next-generation consolidated, centralized, yet federated IT infrastructure for hosting all kinds of IT platforms and for deploying, maintaining, and managing a wider variety of personal, as well as professional applications and services. Handbook of Research on Cloud Infrastructures for Big Data Analytics focuses exclusively on the topic of cloud-sponsored big data analytics for creating flexible and futuristic organizations. This book helps researchers and practitioners, as well as business entrepreneurs, to make informed decisions and consider appropriate action to simplify and streamline the arduous journey towards smarter enterprises.

Diese komplett überarbeitete Neuauflage bringt Ihnen das Thema Big Data auf sehr praktische Art und Weise nahe. Sie lernen Technologien, Tools und Methoden kennen, entwickeln Beispiel-Lösungen und erfahren, wie Sie bestehende Systeme vorausschauend auf die mit Big Data einhergehenden Herausforderungen vorbereiten. Dazu werden Sie neben den bekannten Apache-Projekten wie Hadoop, Hive und HBase auch einige weniger bekannte Frameworks wie Apache UIMA oder Apache OpenNLP kennenlernen, um gezielt die Verarbeitung unstrukturierter Daten zu lernen. Alle hier verwendeten Software-Komponenten stehen im vollen Umfang kostenlos im Internet zur Verfügung. Gemeinsam mit den Autoren bauen Sie Schritt für Schritt viele kleinere Projekte auf bis hin zu einer fertigen und funktionstüchtigen Implementierung. Ziel des Buches ist es, Sie auf den Effekt und den Mehrwert der neuen Möglichkeiten aufmerksam zu machen, sodass Sie diese konstruktiv in Ihr Unternehmen tragen können und für sich und Ihre Kollegen somit ein Bewusstsein für den Wert Ihrer Daten schaffen Die zweite Auflage ergänzt das Buch um zahlreiche neue Themen wie Apache Spark, Apache Kafka und weitere Technologien, die vor allem darauf abzielen, Antwortzeiten kurz zu halten und so ein interaktives Arbeiten zu ermöglichen. Ebenso werden die für Firmen so wichtigen Themen Data Governance und Sicherheit behandelt. Im Internet: 18 fertige Beispiel-Projekte auf Basis von Hadoop, HBase, Hive und D3.js plus Videotutorials

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Effective data processing with MySQL 8, Hadoop, NoSQL APIs, and other Big Data tools

Advances in Computing and Data Sciences

Business Information Systems

Handbook of Research on Big Data Storage and Visualization Techniques

Volume 2

14th European, Mediterranean, and Middle Eastern Conference, EMCIS 2017, Coimbra, Portugal, September 7-8, 2017, Proceedings

Engineering Vibration, Communication and Information Processing

The book comprises selected papers presented at the International Conference on Advanced Computing, Networking and Informatics (ICANI 2018), organized by Medi-Caps University, India. It includes novel and original research work on advanced computing, networking and informatics, and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques in the field of computing and networking.

The concept of a big data warehouse appeared in order to store moving data objects and temporal data information. Moving objects are geometries that change their position and shape continuously over time. In order to support spatio-temporal data, a data model and associated query language is needed for supporting moving objects. Emerging Perspectives in Big Data Warehousing is an essential research publication that explores current innovative activities focusing on the integration between data warehousing and data mining with an emphasis on the applicability to real-world problems. Featuring a wide range of topics such as index structures, ontology, and user behavior, this book is ideally designed for IT consultants, researchers, professionals, computer scientists, academicians, and managers.

This book presents recent developments on the theoretical, algorithmic, and application aspects of Big Data in Complex and Social Networks. The book consists of four parts, covering a wide range of topics. The first part of the book focuses on data storage and data processing. It explores how the efficient storage of data can fundamentally support intensive data access and queries, which enables sophisticated analysis. It also looks at how data processing and visualization help to communicate information clearly and efficiently. The second part of the book is devoted to the extraction of essential information and the prediction of web content. The book shows how Big Data analysis can be used to understand the interests, location, and search history of users and provide more accurate predictions of User Behavior. The latter two parts of the book cover the protection of privacy and security, and emergent applications of big data and social networks. It analyzes how to model rumor diffusion, identify misinformation from massive data, and design intervention strategies. Applications of big data and social networks in multilayer networks and multiparty systems are also covered in-depth.

Today's malware mutates randomly to avoid detection, but reactively adaptive malware is more intelligent, learning and adapting to new computer defenses on the fly. Using the same algorithms that antivirus software uses to detect viruses, reactively adaptive malware deploys those algorithms to outwit antivirus defenses and to go undetected. This book provides details of the tools, the types of malware the tools will detect, implementation of the tools in a cloud computing framework and the applications for insider threat detection.

Information Systems Engineering in Responsible Information Systems

Python lernen für Anfänger und Umsteiger. Inkl. Kapitel zu Git und Minecraft Pi

MySQL 8 for Big Data

Second International Conference, ICACDS 2018, Dehradun, India, April 20-21, 2018, Revised Selected Papers, Part I

7th International Conference, CLOSER 2017, Porto, Portugal, April 24–26, 2017, Revised Selected Papers

Big Data Analytics with Applications in Insider Threat Detection

Handbook of Research on Cloud Infrastructures for Big Data Analytics

Information Security Analytics gives you insights into the practice of analytics and, more importantly, how you can utilize analytic techniques to identify trends and outliers that may not be possible to identify using traditional security analysis techniques. Information Security Analytics dispels the myth that analytics within the information security domain is limited to just security incident and event management systems and basic network analysis. Analytic techniques can help you mine data and identify patterns and relationships in any form of security data. Using the techniques covered in this book, you will be able to gain security insights into unstructured big data of any type. The authors of Information Security Analytics bring a wealth of analytics experience to demonstrate practical, hands-on techniques through case studies and using freely-available tools that will allow you to find anomalies and outliers by combining disparate data sets. They also teach you everything you need to know about threat simulation techniques and how to use analytics as a powerful decision-making tool to assess security control and process requirements within your organization. Ultimately, you will learn how to use these simulation techniques to help predict and profile potential risks to your organization. Written by security practitioners, for security practitioners Real-world case studies and scenarios are provided for each analytics technique Learn about open-source analytics and statistical packages, tools, and applications Step-by-step guidance on how to use analytics tools and how they map to the techniques and scenarios provided Learn how to design and utilize simulations for "what-if" scenarios to simulate security events and processes Learn how to utilize big data techniques to assist in incident response and intrusion analysis Hadoop è un progetto open source che permette di analizzare enormi quantità di dati distribuiti su cluster e file system differenti. Progettato per essere scalabile da un singolo server fino a migliaia di macchine, Hadoop si occupa anche di gestire problemi e guasti a livello applicativo - piuttosto che hardware - contribuendo a ottimizzare il mantenimento dei dati archiviati. Questo libro è dedicato a chi vuole entrare nel mondo della gestione e dell'analisi di Big Data. Attraverso l'uso degli strumenti e dei framework che compongo Hadoop 2, il lettore viene guidato nella progettazione e nell'implementazione di soluzioni di complessità differente, in grado di adattarsi a necessità operative e gestionali diverse che considerano sia la creazione e il mantenimento di dataset, sia la loro elaborazione e analisi per ottenere il massimo dai dati collezionati.

Recent Advances and Challenges