

Microsoft Sql Azure Enterprise Application Development Krishnaswamy Jayaram

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Applications of Machine Learning Prashant Johri 2020-05-04 This book covers applications of machine learning in artificial intelligence. The specific topics covered include human language, heterogeneous and streaming data, unmanned systems, neural information processing, marketing and the social sciences, bioinformatics and robotics, etc. It also provides a broad range of techniques that can be successfully applied and adopted in different areas. Accordingly, the book offers an interesting and insightful read for scholars in the areas of computer vision, speech recognition, healthcare, business, marketing, and bioinformatics.

Big Data Analytics in Cybersecurity Onur Savas 2017-09-18 Big data is presenting challenges to cybersecurity. For an example, the Internet of Things (IoT) will reportedly soon generate a staggering 400 zettabytes (ZB) of data a year. Self-driving cars are predicted to churn out 4000 GB of data per hour of driving. Big data analytics, as an emerging analytical technology, offers the capability to collect, store, process, and visualize these vast amounts of data. Big Data Analytics in Cybersecurity examines security challenges surrounding big data and provides actionable insights that can be used to improve the current practices of network operators and administrators. Applying big data analytics in cybersecurity is critical. By exploiting data from the networks and computers, analysts can discover useful network information from data. Decision makers can make more informative decisions by using this analysis, including what actions need to be performed, and improvement recommendations to policies, guidelines, procedures, tools, and other aspects of the network processes. Bringing together experts from academia, government laboratories, and industry, the book provides insight to both new and more experienced security professionals, as well as data analytics professionals who have varying levels of cybersecurity expertise. It covers a wide range of topics in cybersecurity, which include: Network forensics Threat analysis Vulnerability assessment Visualization Cyber training. In addition, emerging security domains such as the IoT, cloud computing, fog computing, mobile computing, and cyber-social networks are examined. The book first focuses on how big data analytics can be used in different aspects of cybersecurity including network forensics, root-cause analysis, and security training. Next it discusses big data challenges and solutions in such emerging cybersecurity domains as fog computing, IoT, and mobile app security. The book concludes by presenting the tools and datasets for future cybersecurity research.

Python for Data Analysis Wes McKinney 2017-09-25 Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

A Guide to the Business Analysis Body of Knowledge IIBA 2009 "Business analysis involves understanding how organizations function to accomplish their purposes and defining the capabilities an organization requires to provide products and services to external stakeholders. ... [This guide contains] a framework that describes the business analysis tasks that must be performed in order to understand how a solution will deliver value to the sponsoring organization." - page 3.

Microsoft SQL Azure Enterprise Application Development Jayaram Krishnaswamy 2010-12 Each chapter starts with a general overview reviewing the software architecture related information or the underpinning programming concepts followed by an example of working with specific examples. This is then followed by a description of the specific software used in the chapter. The topics that require you to write code are fully explained using annotations and the code is presented in both VB and C# (in most cases). If you are a .Net developer, an architect, or a DBA who wants to develop enterprise applications and projects and extend your on-site skills with SQL Azure, then this book is for you. This book does not assume experience in Windows Azure or SQL Azure, nor is a high level of competency in SQL Server or the .NET Framework and associated technology required. However, a basic understanding of Visual Studio, C#, VB, SQL Servers, XML, web and WCF is required. If you decide to work with SQL Azure, then this book will provide you with the most up to date and practical information.

Microsoft SQL Azure Enterprise Application Development Jayaram Krishnaswamy 2010-12-09 Build enterprise-ready applications and projects with Microsoft SQL Azure using this book and eBook.

Introducing Windows Azure Henry Li 2010-02-17 Windows Azure is Microsoft's next-generation cloud-computing operating system and is designed to provide companies with new business opportunities as they migrate toward hosted services. Introducing Microsoft Azure provides all the information developers need to get started with this technology and apply it across a range of situations. Presented in a clear, concise manner, this book provides a carefully measured learning curve for surmounting the architectural and coding challenges that need to be faced when building a well-balanced Windows Azure service.

From Active Data Management to Event-Based Systems and More Kai Sachs 2010-11-18 Data management has evolved over the years from being strictly associated with database systems, through active databases, to become a topic that has grown beyond the scope of a single field encompassing a large range of subjects, such as distributed systems, event-driven systems, and peer-to-peer and streaming systems. The present collection of works, which sheds light on various facets of data management, is dedicated to Prof. Alejandro Buchmann on the occasion of his 60th birthday. His scientific path looks back on more than thirty years of successful academic life and high-impact research. With this book we celebrate Prof. Buchmann's vision and achievements.

Panduan Praktis Microsoft Windows Azure Agus Kurniawan 2013-02-19 Saat ini makin maraknya bisnis cloud computing dapat dilihat dari indikatornya, yaitu dengan banyaknya kesadaran akan manfaat cloud computing bagi kebutuhan penggunanya, ditambah lagi pemain atau vendor cloud computing juga banyak bermunculan. Di sisi pengguna, ini akan menyibukkan karena apabila kita ingin memanfaatkan cloud computing dengan platform Windows Azure sebagai aplikasi utama maka kita harus membuat aplikasi yang baru atau melakukan migrasi aplikasi saat ini ke platform Windows Azure. Buku ini dirancang untuk membantu para pengembang cloud computing dengan memanfaatkan Windows Azure. Seluruh penyajian dilakukan secara step-by-step. Berikut ini bahasan topik yang dibahas:- Pengenalan teknologi Windows Azure dan proses migrasi- Windows SQL Azure- Windows Azure Storage- Windows Azure Web Sites- Windows Azure Virtual Machine dan Virtual Network- Windows Azure Service Bus, Media Service, dan Mobile Service- Windows Azure Tools- Windows Azure Big Data

Advanced Technologies, Systems, and Applications II Mirsad Hadžikadić 2018-01-30 This book presents innovative and interdisciplinary applications of advanced technologies. It includes the scientific outcomes of the 9th DAYS OF BHAAS (Bosnian-Herzegovinian American Academy of Arts and Sciences) held in Banja Vrućica, Teslić, Bosnia and Herzegovina on May 25–28, 2017. This unique book offers a comprehensive, multidisciplinary and interdisciplinary overview of the latest developments in a broad section of technologies and methodologies, viewed through the prism of applications in computing, networking, information technology, robotics, complex systems, communications, energy, mechanical engineering, economics and medicine, to name just a few.

ASP.NET Developer's Cookbook Steven A. Smith 2003 Written for developers who are up-to-speed with ASP.NET in general, this text provides a task reference for use while developing web applications. It demonstrates tricks, solutions and best practices to use within applications.

Programming Windows Azure Sriram Krishnan 2010-05-07 Learn the nuts and bolts of cloud computing with Windows Azure, Microsoft's new Internet services platform. Written by a key member of the product development team, this book shows you how to build, deploy, host, and manage applications using Windows Azure's programming model and essential storage services. Chapters in Programming Windows Azure are organized to reflect the platform's buffet of services. The book's first half focuses on how to write and host application code on Windows Azure, while the second half explains all of the options you have for storing and accessing data on the platform with high scalability and reliability. Lots of code samples and screenshots are available to help you along the way. Learn how to build applications using the Windows Azure toolset Discover how Windows Azure works under the hood, and learn the how and the why behind several features Choose to write application code in .NET or other languages such as C/C++, PHP, or Ruby Understand the various options for managing your service Get up to speed on Azure's storage services, including blobs, queues, and tables Build a secure backup system, and learn about cloud application security, cryptography, and performance

Learning SQL Alan Beaulieu 2009-04-11 Updated for the latest database management systems - including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, Learning SQL, Second Edition, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work. Exam Ref 70-532 Zoiner Tejada 2015 Prepare for Microsoft Exam 70-532—and help demonstrate your real-world mastery of Microsoft Azure solution development. Designed for experienced developers ready to advance their status, Exam Ref focuses on the critical-thinking and decision-making acumen needed for success at the Microsoft Specialist level. Focus on the expertise measured by these objectives: Design and implement Websites Create and manage Virtual Machines Design and implement Cloud Services Design and implement a storage strategy Manage application and network services This Microsoft Exam Ref : Organizes its coverage by exam objectives Features strategic, what-if scenarios to challenge you Will be valuable for Microsoft Azure developers, solution architects, DevOps engineers, and QA engineers Assumes you have experience designing, programming, implementing, automating, and monitoring Microsoft Azure solutions and that you are proficient with tools, techniques, and approaches for building scalable, resilient solutions Developing Microsoft Azure Solutions About the Exam Exam 70-532 focuses on the skills and knowledge needed to develop Microsoft Azure solutions that include websites, virtual machines, cloud services, storage, application services, and network services. About Microsoft Certification Passing this exam earns you a Microsoft Specialist certification in Microsoft Azure, demonstrating your expertise with the Microsoft Azure enterprise-grade cloud platform. You can earn this certification by passing Exam 70-532, Developing Microsoft Azure Solutions; or Exam 70-533, Implementing Microsoft Azure Infrastructure Solutions; or Exam 70-534, Architecting Microsoft Azure Solutions. See full details at: microsoft.com/learning.

Learning SQL Server Reporting Services 2012 Jayaram Krishnaswamy 2013 The book is packed with clear instructions and plenty of screenshots, providing all the support and guidance you will need as you begin to generate reports with SQL Server 2012 Reporting Services. This book is for those who are new to SQL Server Reporting Services 2012 and aspiring to create and deploy cutting edge reports. This book is for report developers, report authors, ad-hoc report authors and model developers, and Report Server and SharePoint Server Integrated Report Server administrators. Minimal knowledge of SQL Server is assumed and SharePoint experience would be helpful.

Monolith to Microservices Sam Newman 2019-11-14 How do you detangle a monolithic system and migrate it to a microservice architecture? How do you do it while maintaining business-as-usual? As a companion to Sam Newman's extremely popular Building Microservices, this new book details a proven method for transitioning an existing monolithic system to a microservice architecture. With many illustrative examples, insightful migration patterns, and a bevy of practical advice to transition your monolith enterprise into a microservice operation, this practical guide covers multiple scenarios and strategies for a successful migration, from initial planning all the way through application and database decomposition. You'll learn several tried and tested patterns and techniques that you can use as you migrate your existing architecture. Ideal for organizations looking to transition to microservices, rather than rebuild Helps companies determine whether to migrate, when to migrate, and where to begin Addresses communication, integration, and the migration of legacy systems Discusses multiple migration patterns and where they apply Provides database migration examples, along with synchronization strategies Explores application decomposition, including several architectural refactoring patterns Delves into details of database decomposition, including the impact of breaking referential and transactional integrity, new failure modes, and more

Pentaho Data Integration Cookbook Alex Meadows 2013-12-02 Pentaho Data Integration Cookbook Second Edition is written in a cookbook format, presenting examples in the style of recipes. This allows you to go directly to your topic of interest, or follow topics throughout a chapter to gain a thorough in-depth knowledge. Pentaho Data Integration Cookbook Second Edition is designed for developers who are familiar with the basics of Kettle but who wish to move up to the next level. It is also aimed at advanced users that want to learn how to use the new features of PDI as well as and best practices for working with Kettle.

Web Publishing with Html5 and Css3 in One Hour a Day Laura Lemay 2015-08-25 Each book provides the basic information that a motivated self-learner needs to study a particular computer subject. Original.

Business Process Management Workshops Ernest Teniente 2018-01-16 This book

constitutes revised papers from the eleven International Workshops held at the 15th International Conference on Business Process Management, BPM 2017, in Barcelona, Spain, in September 2017: BPAI 2017 – 1st International Workshop on Business Process Innovation with Artificial Intelligence; BPI 2017 – 13th International Workshop on Business Process Intelligence; BP-Meet-IoT 2017 – 1st International Workshop on Ubiquitous Business Processes Meeting Internet-of-Things; BPMS2 2017 – 10th Workshop on Social and Human Aspects of Business Process Management; - CBPM 2017 – 1st International Workshop on Cognitive Business Process Management; CCABPM 2017 – 1st International Workshop on Cross-cutting Aspects of Business Process Modeling; DeHMiMoP 2017 – 5th International Workshop on Declarative/Decision/Hybrid Mining & Modeling for Business Processes; QD-PA 2017 – 1st International Workshop on Quality Data for Process Analytics; REBPM 2017 – 3rd International Workshop on Interrelations between Requirements Engineering and Business Process Management; SPBP 2017 – 1st Workshop on Security and Privacy-enhanced Business Process Management; TAProViz-PQ-IWPE 2017 -Joint International BPM 2017 Workshops on Theory and Application of Visualizations and Human-centric Aspects in Processes (TAProViz'17), Process Querying (PQ'17) and Process Engineering (IWPE17). The 44 full and 11 short papers presented in this volume were carefully reviewed and selected from 99 submissions.

The Manga Guide to Databases Mana Takahashi 2009-01-15 Want to learn about databases without the tedium? With its unique combination of Japanese-style comics and serious educational content, The Manga Guide to Databases is just the book for you. Princess Ruruna is stressed out. With the king and queen away, she has to manage the Kingdom of Kod's humongous fruit-selling empire. Overseas departments, scads of inventory, conflicting prices, and so many customers! It's all such a confusing mess. But a mysterious book and a helpful fairy promise to solve her organizational problems—with the practical magic of databases. In The Manga Guide to Databases, Tico the fairy teaches the Princess how to simplify her data management. We follow along as they design a relational database, understand the entity-relationship model, perform basic database operations, and delve into more advanced topics. Once the Princess is familiar with transactions and basic SQL statements, she can keep her data timely and accurate for the entire kingdom. Finally, Tico explains ways to make the database more efficient and secure, and they discuss methods for concurrency and replication. Examples and exercises (with answer keys) help you learn, and an appendix of frequently used SQL statements gives the tools you need to create and maintain full-featured databases. (Of course, it wouldn't be a royal kingdom without some drama, so read on to find out who gets the girl—the arrogant prince or the humble servant.) This EduManga book is a translation of a bestselling series in Japan, co-published with Ohmsha, Ltd., of Tokyo, Japan.

Big Data Analytics: Systems, Algorithms, Applications C.S.R. Prabhu 2019-10-14 This book provides a comprehensive survey of techniques, technologies and applications of Big Data and its analysis. The Big Data phenomenon is increasingly impacting all sectors of business and industry, producing an emerging new information ecosystem. On the applications front, the book offers detailed descriptions of various application areas for Big Data Analytics in the important domains of Social Semantic Web Mining, Banking and Financial Services, Capital Markets, Insurance, Advertisement, Recommendation Systems, Bio-Informatics, the IoT and Fog Computing, before delving into issues of security and privacy. With regard to machine learning techniques, the book presents all the standard algorithms for learning – including supervised, semi-supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective Deep Learning. Multi-layered and nonlinear learning for Big Data are also covered. In turn, the book highlights real-life case studies on successful implementations of Big Data Analytics at large IT companies such as Google, Facebook, LinkedIn and Microsoft. Multi-sectorial case studies on domain-based companies such as Deutsche Bank, the power provider Opower, Delta Airlines and a Chinese City Transportation application represent a valuable addition. Given its comprehensive coverage of Big Data Analytics, the book offers a unique resource for undergraduate and graduate students, researchers, educators and IT professionals alike.

How To Learn Microsoft SQL Server Quickly! Andrei Besedin 2018-06-03 HOW TO LEARN MICROSOFT SQL SERVER QUICKLY! Whether you are an IT developer or Pro, SQL server is one of the programs you need to learn if you want to implement and manage database solutions, work with powerful reporting features and much more. The primary function of the SQL server is to store retrieving data as required by other applications. When you learn the program, you will be able to retrieve a large number of records from a database efficiently and quickly; you will be able to view data without storing it into an object and many other functions. To help you learn the fundamentals of SQL Server and effectively put it into practice, we have prepared a great book titled "How to Learn Microsoft SQL Server Quickly." There is more to this powerful book than you think. Lots of benefits await you. Let's take a look at some of them. •You will learn what SQL Server is and how you can use it to manipulate data into the database • You will learn how to create login and backups, create and restore data, assign permissions and much more •The book provides a step-by-step progression on how to use SQL server •The navigation index is perfect ensuring a great reference guide •It offers short and precise sentences that ensure you understand every bit of information from the book You don't need to spend all the money on you before getting this book. In fact, you can save up to \$1000 buying this book. It is affordable so it is suitable for all budgets. No doubt, this book is going to offer you more value than your money. We accept the fact that this powerful and incredible book might not contain all extensive information on Microsoft SQL Server. Also, we confess that our weakness is editing. We are not native speakers. But our focus is to offer you high-quality contents, and our aim is to ensure you Learn Microsoft SQL Server Quickly so you can easily retrieve large amounts of record from a database efficiently and quickly. The more you waste time purchasing and making use of the information this topnotch book offers the more you find it hard to retrieve large amounts of record from a database, and the more you waste your time. It is better to be on the winning side now than never. This product is 100% risk-free so you can try it out for 7 full days! Don't doubt it; if you are not satisfied, you can ask for a complete refund within 7 days by visiting "Manage your Kindle" page. To start learning Microsoft SQL Server today and quickly, click the buy button on the upper right side of the page and obtain your copy of the book in just a single click! Remember, SQL Server is crucial to the success as an IT developer or pro. Purchase this product now!

Business Intelligence Demystified Anoop Kumar V K 2021-09-25 Clear your doubts about Business Intelligence and start your new journey KEY FEATURES ● Includes successful methods and innovative ideas to achieve success with BI. ● Vendor-neutral, unbiased, and based on experience. ● Highlights practical challenges in BI journeys. ● Covers financial aspects along with technical aspects. ● Showcases multiple BI organization models and the structure of BI teams. DESCRIPTION The book demystifies misconceptions and misinformation about BI. It provides clarity to almost everything related to BI in a simplified and unbiased way. It covers topics right from the definition of BI, terms used in the BI definition, coinage of BI, details of the different main uses of BI, processes that support the main uses, side benefits, and the level of importance of BI, various types of BI based on various parameters, main phases in the BI journey and the challenges faced in each of the phases in the BI journey. It clarifies myths about self-service BI and real-time BI. The book covers the structure of a typical internal BI team, BI organizational models, and the main roles in BI. It also clarifies the doubts around roles in BI. It explores the different components that add to the cost of BI and explains how to calculate the total cost of the ownership of BI and ROI for BI. It covers several ideas, including unconventional ideas to achieve BI success and also learn about IBI. It explains the different types of BI architectures, commonly used technologies, tools, and concepts in BI and provides clarity about the boundary of BI w.r.t technologies, tools, and concepts. The book helps you lay a very strong foundation and provides the right perspective about BI. It enables you to start or restart your journey with BI. WHAT YOU WILL LEARN ● Builds a strong conceptual foundation in BI. ● Gives the right perspective and clarity on BI uses, challenges, and architectures. ● Enables you to make the right decisions on the BI structure, organization model, and budget. ● Explains which type of BI solution is required for your business. ● Applies successful BI ideas. WHO THIS BOOK IS FOR This book is a must-read for business managers, BI aspirants, CxOs, and all those who want to drive the business value with data-driven insights. TABLE OF CONTENTS 1. What is Business Intelligence? 2. Why do Businesses need BI? 3. Types of Business Intelligence 4.

Challenges in Business Intelligence 5. Roles in Business Intelligence 6. Financials of Business Intelligence 7. Ideas for Success with BI 8. Introduction to IBI 9. BI Architectures 10. Demystify Tech, Tools, and Concepts in BI

Mastering Oracle SQL Sanjay Mishra 2002 Explores Oracle's implementation of SQL and explains how to perform tasks including querying time-based data, implementing conditional logic in queries, writing queries, and joining data from two or more tables.

Systems Modeling: Methodologies and Tools Antonio Puliafito 2018-10-16 This book covers ideas, methods, algorithms, and tools for the in-depth study of the performance and reliability of dependable fault-tolerant systems. The chapters identify the current challenges that designers and practitioners must confront to ensure the reliability, availability, and performance of systems, with special focus on their dynamic behaviors and dependencies. Topics include network calculus, workload and scheduling; simulation, sensitivity analysis and applications; queuing networks analysis; clouds, federations and big data; and tools. This collection of recent research exposes system researchers, performance analysts, and practitioners to a spectrum of issues so that they can address these challenges in their work.

Microsoft Azure Richard J. Dudley 2010-12-09 Straight talking advice on how to design and build enterprise applications for the cloud using Microsoft Azure with this book and eBook.

The Art of SQL Stephane Faroult 2006-03-10 For all the buzz about trendy IT techniques, data processing is still at the core of our systems, especially now that enterprises all over the world are confronted with exploding volumes of data. Database performance has become a major headache, and most IT departments believe that developers should provide simple SQL code to solve immediate problems and let DBAs tune any bad SQL later. In The Art of SQL, author and SQL expert Stephane Faroult argues that this safe approach only leads to disaster. His insightful book, named after Art of War by Sun Tzu, contends that writing quick inefficient code is sweeping the dirt under the rug. SQL code may run for 5 to 10 years, surviving several major releases of the database management system and on several generations of hardware. The code must be fast and sound from the start, and that requires a firm understanding of SQL and relational theory. The Art of SQL offers best practices that teach experienced SQL users to focus on strategy rather than specifics. Faroult's approach takes a page from Sun Tzu's classic treatise by viewing database design as a military campaign. You need knowledge, skills, and talent. Talent can't be taught, but every strategist from Sun Tzu to modern-day generals believed that it can be nurtured through the experience of others. They passed on their experience acquired in the field through basic principles that served as guiding stars amid the sound and fury of battle. This is what Faroult does with SQL. Like a successful battle plan, good architectural choices are based on contingencies. What if the volume of this or that table increases unexpectedly? What if, following a merger, the number of users doubles? What if you want to keep several years of data online? Faroult's way of looking at SQL performance may be unconventional and unique, but he's deadly serious about writing good SQL and using SQL well. The Art of SQL is not a cookbook, listing problems and giving recipes. The aim is to get you-and your manager-to raise good questions.

Smart Innovations in Communication and Computational Sciences Shailesh Tiwari 2018-11-19 The book presents the latest advances and research findings in the fields of computational science and communication. The areas covered include smart innovation; systems and technologies; embedded knowledge and intelligence; innovation and sustainability; advanced computing; and networking and informatics. It also focuses on the knowledge-transfer methodologies and the innovation strategies employed to make these effective. This fascinating compilation appeals to researchers, academics and engineers around the globe.

Beginning SQL Server 2008 Administration Robert Walters 2010-03-26 Beginning SQL Server 2008 Administration is essential for anyone wishing to learn about implementing and managing SQL Server 2008 database. From college students, to experienced database administrators from other platforms, to those already familiar with SQL Server and wanting to fill in some gaps of knowledge, this book will bring all readers up to speed on the enterprise platform Microsoft SQL Server 2008. Clearly describes relational database concepts Explains the SQL Server database engine and supporting tools Shows various database maintenance scenarios

Software Architecture Carlos E. Cuesta 2018-09-19 This book constitutes the refereed proceedings of the 12th European Conference on Software Architecture, ECSA 2018, held in Madrid, Spain, in September 2018. The 17 full papers presented together with 7 short papers were carefully reviewed and selected from 96 submissions. They are organized in topical sections as follows: Self-Adaptive Architectures, IoT Architectures, Embedded and Cyber-Physical Systems, Microservices Architectures, Service-Oriented Architectures, Architectural Design Decisions, Software Architecture in Practice.

WiX 3.6 - A Developer's Guide to Windows Installer XML Nick Ramirez 2012-01-01 A step-by-step tutorial with plenty of code and examples to improve your learning curve. If you are a developer and want to create installers for software targeting the Windows platform, then this book is for you. You'll be using plenty of XML and ought to know the basics of writing a well-formed document. No prior experience in WiX or Windows Installer is assumed. You should know your way around Visual Studio to compile projects, add project references and tweak project properties.

Learning SQL Server Reporting Services 2012 Jayaram Krishnaswamy 2015-05-09 For a newcomer to SQL Reporting Services 2012, things can seem a bit daunting, but this book will ease your path to becoming an expert. Clear instructions and screenshots will have you generating reports in no time. Overview Build applications using the latest Microsoft technologies: SSIS 2012, SSDT, WPF, and SharePoint 2010 Reach out to the cloud and master Windows Azure Reporting Services Learn the ins and outs of SQL Server Reporting Services 2012 for Native and SharePoint Integrated modes Step-by-step learning, guided by a large number of screenshots in every chapter makes it a simple In Detail In the present day information-centric world we live in, the success of an enterprise depends enormously on how its information is generated, handled, and disseminated. With ample screenshots and over 65 hands-on exercises, this book will guide you effortlessly through creating cutting edge reports using SQL Server Reporting Services 2012, native and fully integrated with SharePoint Server 2010 including new features like Power View and Data Alerts. "Learning SQL Server Reporting Services 2012" will get you started right from installation and then move on to configuration of SQL Server Reporting Services 2012. Start learning right from Chapter 1 and build your skill to create reports using the latest tools and deploy them to the latest servers, both Native and SharePoint. No guessing; you will learn all-Power View, Data Alerts, SQL Azure Reporting, the latest Reporting Services Gadgets, and more. "Learning SQL Server Reporting Services 2012" is a definitive guide to a step-by-step, metered approach to get a jump start on the latest features in SQL Server Reporting Services.Reporting Services in Microsoft SQL Server 2012 is more tightly integrated not only with the Microsoft Business Stack but also with SharePoint, Windows Azure, and the Visual Studio suite of products, with many new features. You will install and configure the toolset to work with SSRS 2012 integrated with SharePoint 2010. Using SQL Server Data Tools, you will author reports and deploy. You will learn about security to work with Report Manager and Central Administration in SharePoint. Using Report Builder, you will learn about authoring cutting edge reports. You will create Tabular Models and begin experiencing the thrill of creating Power View Reports. What you will learn from this book Install SQL Server 2012, SharePoint Server 2010, and configure Reporting Services both native and SharePoint Integrated on Windows 7 Install SSDT and author reports, both local and remote, and deploy them to report servers Develop desktop and web applications by using Report Viewer controls Author different kinds of reports with the latest gadgets by working with Report Builder Manage access to the report server, report scheduling, report delivery, report uploads, and downloads with Report Manager Create Tabular Models with SQL Server Analysis Services and deploy them to SSAS Server using SSDT Author Power View Reports from your SharePoint Site and export them as Power Point files Learn to create Data Driven alerts in SharePoint and monitor them on SQL Agent on SSMS Work with SQL Azure Reporting Services using Windows Azure Portal and SSMS Write applications in SSIS and WPF to access reports and access native server reports from SharePoint Site

Knowledge Graphs and Big Data Processing Valentina Janev 2020-01-01 This open access book is part of the LAMBDA Project (Learning, Applying, Multiplying Big Data Analytics), funded by the

European Union, GA No. 809965. Data Analytics involves applying algorithmic processes to derive insights. Nowadays it is used in many industries to allow organizations and companies to make better decisions as well as to verify or disprove existing theories or models. The term data analytics is often used interchangeably with intelligence, statistics, reasoning, data mining, knowledge discovery, and others. The goal of this book is to introduce some of the definitions, methods, tools, frameworks, and solutions for big data processing, starting from the process of information extraction and knowledge representation, via knowledge processing and analytics to visualization, sense-making, and practical applications. Each chapter in this book addresses some pertinent aspect of the data processing chain, with a specific focus on understanding Enterprise Knowledge Graphs, Semantic Big Data Architectures, and Smart Data Analytics solutions. This book is addressed to graduate students from technical disciplines, to professional audiences following continuous education short courses, and to researchers from diverse areas following self-study courses. Basic skills in computer science, mathematics, and statistics are required.

Azure in Action Brian Prince 2010-10-21 Azure in Action is a fast-paced tutorial intended for architects and developers looking to develop cloud-based applications on the Windows Azure Platform. Written by two of Microsoft's leading Azure evangelists, it's designed both for readers new to cloud concepts and for those familiar with cloud development but new to Azure. Starting with core concepts, the book explores designing and scaling front-end and back-end services that run in the cloud, and more advanced scenarios in Windows Azure. Later chapters introduce the rest of the Azure Services Platform with a particular focus on SQL Azure Database.

Big Data Analytics V. B. Aggarwal 2017-10-03 This volume comprises the select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volumes cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on Big Data Analytics. The contents of this book will be useful to researchers and students alike.

Emerging Research in Data Engineering Systems and Computer Communications P. Venkata Krishna 2020-02-10 This book gathers selected papers presented at the 2nd International Conference on Computing, Communications and Data Engineering, held at Sri Padmavati Mahila Visvavidyalayam, Tirupati, India from 1 to 2 Feb 2019. Chiefly discussing major issues and challenges in data engineering systems and computer communications, the topics covered include wireless systems and IoT, machine learning, optimization, control, statistics, and social computing.

Advances in Intelligent Systems and Computing Natalya Shakhovska 2016-09-12 The book reports on new theories and applications in the field of intelligent systems and computing. It covers computational and artificial intelligence methods, as well as advances in computer vision, current issue in big data and cloud computing, computation linguistics, cyber-physical systems as well as topics in intelligent information management. Written by active researchers, the different chapters are based on contributions presented at the workshop in intelligent systems and computing (ISC), held during CSIT 2016, September 6-9, and jointly organized by the Lviv Polytechnic National University, Ukraine, the Kharkiv National University of Radio Electronics, Ukraine, and the Technical University of Lodz, Poland, under patronage of Ministry of Education and Science of Ukraine. All in all, the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems, and it is expected to foster new discussions and collaborations among different groups.

Building Blocks for IoT Analytics John Soldatos 2016-11-23 Internet-of-Things (IoT) Analytics are an integral element of most IoT applications, as it provides the means to extract knowledge, drive actuation services and optimize decision making. IoT analytics will be a major contributor to IoT business value in the coming years, as it will enable organizations to process and fully leverage large amounts of IoT data, which are nowadays largely underutilized. The Building Blocks of IoT Analytics is devoted to the presentation the main technology building blocks that

comprise advanced IoT analytics systems. It introduces IoT analytics as a special case of BigData analytics and accordingly presents leading edge technologies that can be deployed in order to successfully confront the main challenges of IoT analytics applications. Special emphasis is paid in the presentation of technologies for IoT streaming and semantic interoperability across diverse IoT streams. Furthermore, the role of cloud computing and BigData technologies in IoT analytics are presented, along with practical tools for implementing, deploying and operating non-trivial IoT applications. Along with the main building blocks of IoT analytics systems and applications, the book presents a series of practical applications, which illustrate the use of these technologies in the scope of pragmatic applications. Technical topics discussed in the book include: Cloud Computing and BigData for IoT analytics Searching the Internet of Things Development Tools for IoT Analytics Applications IoT Analytics-as-a-Service Semantic Modelling and Reasoning for IoT Analytics IoT analytics for Smart Buildings IoT analytics for Smart Cities Operationalization of IoT analytics Ethical aspects of IoT analytics This book contains both research oriented and applied articles on IoT analytics, including several articles reflecting work undertaken in the scope of recent European Commission funded projects in the scope of the FP7 and H2020 programmes. These articles present results of these projects on IoT analytics platforms and applications. Even though several articles have been contributed by different authors, they are structured in a well thought order that facilitates the reader either to follow the evolution of the book or to focus on specific topics depending on his/her background and interest in IoT and IoT analytics technologies. The compilation of these articles in this edited volume has been largely motivated by the close collaboration of the co-authors in the scope of working groups and IoT events organized by the Internet-of-Things Research Cluster (IERC), which is currently a part of EU's Alliance for Internet of Things Innovation (AIOTI).

Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education Despotovi?-Zraki?, Marijana 2014-03-31 As information systems used for research and educational purposes have become more complex, there has been an increase in the need for new computing architecture. High performance and cloud computing provide reliable and cost-effective information technology infrastructure that enhances research and educational processes. Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education presents the applications of cloud computing in various settings, such as scientific research, education, e-learning, ubiquitous learning, and social computing. Providing various examples, practical solutions, and applications of high performance and cloud computing; this book is a useful reference for professionals and researchers discovering the applications of information and communication technologies in science and education, as well as scholars seeking insight on how modern technologies support scientific research.

Penetration Testing Georgia Weidman 2014-06-14 Penetration testers simulate cyber attacks to find security weaknesses in networks, operating systems, and applications. Information security experts worldwide use penetration techniques to evaluate enterprise defenses. In Penetration Testing, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine-based lab that includes Kali Linux and vulnerable operating systems, you'll run through a series of practical lessons with tools like Wireshark, Nmap, and Burp Suite. As you follow along with the labs and launch attacks, you'll experience the key stages of an actual assessment—including information gathering, finding exploitable vulnerabilities, gaining access to systems, post exploitation, and more. Learn how to: -Crack passwords and wireless network keys with brute-forcing and wordlists -Test web applications for vulnerabilities -Use the Metasploit Framework to launch exploits and write your own Metasploit modules -Automate social-engineering attacks -Bypass antivirus software -Turn access to one machine into total control of the enterprise in the post exploitation phase You'll even explore writing your own exploits. Then it's on to mobile hacking—Weidman's particular area of research—with her tool, the Smartphone Pentest Framework. With its collection of hands-on lessons that cover key tools and strategies, Penetration Testing is the introduction that every aspiring hacker needs.