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Reference Architectures for Critical Domains Elisa Yumi Nakagawa,Pablo Oliveira Antonino,2023-03-14 This book presents reference architecture as a key blueprint to develop and evolve critical software intensive systems emphasizing both the state of the art in research and successful industrial cases After outlining the theoretical foundations of reference architecture and presenting an overview of a number of reference architectures proposed over the recent years this book dives into a set of critical application domains including defense health automotive avionics and Industry 4 0 highlighting the respective most relevant reference architectures that have impacted these domains the experience and lessons learned insights gained benefits and drawbacks and factors that make these architectures sustainable The book finishes with the most relevant directions for future advances in reference architectures The content of this book is useful for researchers and advanced professionals in industry in the areas of computing and engineering as well as in critical application domains that increasingly require interconnected large and complex software intensive systems

Design and Construction of an RFID-enabled Infrastructure Nagabhushana Prabhu,2013-11-20 Internet 2 0 previously called the Internet of Things presents a tantalizing vision of bridging the cyber and physical worlds to

forge a seamless planet wide infrastructure in which cyber resources and physical objects can interact without human intervention The technology needed to build the infrastructure already exists However more than a decade after the vision of Internet 2 0 was articulated it remains largely unrealized except in isolated settings Following a background discussion Design and Construction of an RFID enabled Infrastructure the Next Avatar of the Internet addresses three questions what are the barriers to the emergence of Internet 2 0 as a global infrastructure What are the features that Internet 2 0 architecture must have if it is to become a successful global infrastructure How can one build a prototype of Internet 2 0 The quest for answers to the above questions threads the narrative through the birthing process and maturation of two successful global infrastructures the Internet and the web Based on a review of the design philosophies underlying the Internet and the Web their histories and the strategic stewardship that midwifed their births the book presents the architectural guidelines for the Internet 2 0 infrastructure as well as a blueprint for the construction of its prototype The discussion in the book is consolidated into a list of technical and strategic guidelines intended to facilitate the incubation of Internet 2 0

System Performance and Management Analytics P. K. Kapur, Yury Klochkov, Ajit Kumar Verma, Gurinder Singh, 2018-07-30 This book shares key insights into system performance and management analytics demonstrating how the field of analytics is currently changing and how it is used to monitor companies efforts to drive performance Managing business performance facilitates the effective accomplishment of strategic and operational goals and there is a clear and direct correlation between using performance management applications and improved business and organizational results As such performance and management analytics can yield a range of direct and indirect benefits boost operational efficiency and unlock employees latent potential while at the same time aligning services with overarching goals The book addresses a range of topics including software reliability assessment testing quality management system performance management analysis using soft computing techniques and management analytics It presents a balanced holistic approach to viewing the world from both a technical and managerial perspective by considering performance and management analytics Accordingly it offers a comprehensive guide to one of the most pressing issues in today s technology dominated world namely that most companies and organizations find themselves awash in a sea of data but lack the human capital appropriate tools and knowledge to use it to help them create a competitive edge

Software Architecture 2 Mourad Chabane Oussalah, 2014-06-02 Over the past 20 years software architectures have significantly contributed to the development of complex and distributed systems Nowadays it is recognized that one of the critical problems in the design and development of any complex software system is its architecture i e the organization of its architectural elements Software Architecture presents the software architecture paradigms based on objects components services and models as well as the various architectural techniques and methods the analysis of architectural qualities models of representation of architectural templates and styles their formalization validation and testing and finally the engineering approach in which these consistent and autonomous elements can be tackled

Effective Coding with VHDL Ricardo Jasinski, 2016-05-27 A guide to applying software design principles and coding practices to VHDL to improve the readability maintainability and quality of VHDL code This book addresses an often neglected aspect of the creation of VHDL designs A VHDL description is also source code and VHDL designers can use the best practices of software development to write high quality code and to organize it in a design This book presents this unique set of skills teaching VHDL designers of all experience levels how to apply the best design principles and coding practices from the software world to the world of hardware The concepts introduced here will help readers write code that is easier to understand and more likely to be correct with improved readability maintainability and overall quality After a brief review of VHDL the book presents fundamental design principles for writing code discussing such topics as design quality architecture modularity abstraction and hierarchy Building on these concepts the book then introduces and provides recommendations for each basic element of VHDL code including statements design units types data objects and subprograms The book covers naming data objects and functions commenting the source code and visually presenting the code on the screen All recommendations are supported by detailed rationales Finally the book explores two uses of VHDL synthesis and testbenches It examines the key characteristics of code intended for synthesis distinguishing it from code meant for simulation and then demonstrates the design and implementation of testbenches with a series of examples that verify different kinds of models including combinational sequential and FSM code Examples from the book are also available on a companion website enabling the reader to experiment with the complete source code

Pro Application Lifecycle Management with Visual Studio 2012 Joachim Rossberg, Mathias Olausson, 2012-11-27 You can have the best coders in the world working in your teams but if your project management isn't up to scratch your project is almost certain to be delayed to come in over budget and in some cases to fail entirely By taking precise control of your application development process you can make changes both large and small throughout your project's life cycle that will lead to better quality finished products that are consistently delivered on time and within budget Application lifecycle management ALM is an area of rapidly growing interest within the development community Because its techniques allow you to deal with the process of developing applications across many areas of responsibility and across many different disciplines its effects on your project can be wide ranging and pronounced It is a project management tool that has practical implications for the whole team from architects to designers from developers to testers *Pro Application Lifecycle Management with Visual Studio 2012* focuses on the most powerful ALM tool available for the Microsoft .NET Framework Visual Studio Team Foundation Server It demonstrates the key concepts and techniques of ALM at first with a guide to the overall methodology and then delves into architecture and testing illustrating all of the concepts tips and tricks using the tools TFS provides The book serves as a complete guide to the ALM style with no fluff and many relevant code samples and examples After reading the book you will understand how TFS can be used to generate continuous meaningful reporting on your project's health for the decision

makers on your team as well as for your project's sponsors *Python for Excel* Felix Zumstein, 2021-03-04 While Excel remains ubiquitous in the business world recent Microsoft feedback forums are full of requests to include Python as an Excel scripting language In fact it's the top feature requested What makes this combination so compelling In this hands on guide Felix Zumstein creator of xlwings a popular open source package for automating Excel with Python shows experienced Excel users how to integrate these two worlds efficiently Excel has added quite a few new capabilities over the past couple of years but its automation language VBA stopped evolving a long time ago Many Excel power users have already adopted Python for daily automation tasks This guide gets you started Use Python without extensive programming knowledge Get started with modern tools including Jupyter notebooks and Visual Studio code Use pandas to acquire clean and analyze data and replace typical Excel calculations Automate tedious tasks like consolidation of Excel workbooks and production of Excel reports Use xlwings to build interactive Excel tools that use Python as a calculation engine Connect Excel to databases and CSV files and fetch data from the internet using Python code Use Python as a single tool to replace VBA Power Query and Power Pivot

Integrated Approach to Web Performance Testing: A Practitioner's Guide Subraya, B.M., 2006-01-31 This book provides an integrated approach and guidelines to performance testing of Web based systems Provided by publisher

Proceedings of Sixth International Congress on Information and Communication Technology Xin-She Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2021-09-16 This book gathers selected high quality research papers presented at the Sixth International Congress on Information and Communication Technology held at Brunel University London on February 25-26 2021 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of things IoT and e mining Written by respected experts and researchers working on ICT the book offers a valuable asset for young researchers involved in advanced studies The book is presented in four volumes **Advanced Information Systems Engineering Workshops**

Camille Salinesi, Oscar Pastor, 2011-06-17 This book constitutes the thoroughly refereed proceedings of ten international workshops held in London UK in conjunction with the 23rd International Conference on Advanced Information Systems Engineering CAiSE 2011 in June 2011 The 59 revised papers were carefully selected from 139 submissions The ten workshops included Business IT Alignment and Interoperability BUSITAL Conceptualization of Modelling Methods CMM Domain Specific Engineering DsE CAiSE Governance Risk and Compliance GRCIS Integration of IS Engineering Tools INISET System and Software Architectures IWSSA Ontology Driven Information Systems Engineering ODISE Ontology Models Conceptualization and Epistemology in Social Artificial and Natural Systems ONTOSE Semantic Search SSW and Information Systems Security Engineering WISSE **Database and Expert Systems Applications** Mourad

Elloumi, Michael Granitzer, Abdelkader Hameurlain, Christin Seifert, Benno Stein, A Min Tjoa, Roland Wagner, 2018-08-06 This volume constitutes the refereed proceedings of the three workshops held at the 29th International Conference on Database

and Expert Systems Applications DEXA 2018 held in Regensburg Germany in September 2018 the Third International Workshop on Big Data Management in Cloud Systems BDMICS 2018 the 9th International Workshop on Biological Knowledge Discovery from Data BIODKDD and the 15th International Workshop on Technologies for Information Retrieval TIR The 25 revised full papers were carefully reviewed and selected from 33 submissions The papers discuss a range of topics including parallel data management systems consistency and privacy cloud computing and graph queries web and domain corpora NLP applications social media and personalization

Data Science in Theory and Practice Maria Cristina Mariani, Osei Kofi Tweneboah, Maria Pia Beccar-Varela, 2021-09-30 DATA SCIENCE IN THEORY AND PRACTICE EXPLORE THE FOUNDATIONS OF DATA SCIENCE WITH THIS INSIGHTFUL NEW RESOURCE Data Science in Theory and Practice delivers a comprehensive treatment of the mathematical and statistical models useful for analyzing data sets arising in various disciplines like banking finance health care bioinformatics security education and social services Written in five parts the book examines some of the most commonly used and fundamental mathematical and statistical concepts that form the basis of data science The authors go on to analyze various data transformation techniques useful for extracting information from raw data long memory behavior and predictive modeling The book offers readers a multitude of topics all relevant to the analysis of complex data sets Along with a robust exploration of the theory underpinning data science it contains numerous applications to specific and practical problems The book also provides examples of code algorithms in R and Python and provides pseudo algorithms to port the code to any other language Ideal for students and practitioners without a strong background in data science readers will also learn from topics like Analyses of foundational theoretical subjects including the history of data science matrix algebra and random vectors and multivariate analysis A comprehensive examination of time series forecasting including the different components of time series and transformations to achieve stationarity Introductions to both the R and Python programming languages including basic data types and sample manipulations for both languages An exploration of algorithms including how to write one and how to perform an asymptotic analysis A comprehensive discussion of several techniques for analyzing and predicting complex data sets Perfect for advanced undergraduate and graduate students in Data Science Business Analytics and Statistics programs Data Science in Theory and Practice will also earn a place in the libraries of practicing data scientists data and business analysts and statisticians in the private sector government and academia

Reuse in Emerging Software Engineering Practices Sihem Ben Sassi, Stéphane Ducasse, Hamed Mili, 2020-11-30 This book constitutes the proceedings of the 19th International Conference on Software and Systems Reuse ICSR 2020 held in Hammamet Tunisia in December 2020 Due to COVID 19 pandemic the Conference was held virtually The 16 full papers and 2 short papers included in this book were carefully reviewed and selected from 60 submissions The papers were organized in topical sections named modelling reuse in practice reengineering recommendation and empirical analysis

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