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2020-03-10

MCNEIL HOOPER

The Agile Architecture Revolution John Wiley & Sons

Organizations are now competing in two markets, one for their products and services and one for the talent required to produce or perform them. Success in the former is determined by success in the latter. The ability to compete is directly related to the ability to attract, develop, motivate, organize, and retain the talented people needed to accomplish strategic business objectives. The People CMM, as documented in this authoritative book, is a framework for human capital management. Broadly adopted by small and large organizations worldwide, it provides proven tools for addressing strategic workforce and critical people issues. It helps organizations: Establish workforce practices aligned with current and future business objectives Characterize the maturity of workforce practices Guide a program of continuous workforce development Integrate workforce development with continual process improvement People CMM®, Second Edition, documents Version 2 of the People CMM and Describes practices for each maturity level, with guidance on how to interpret and apply them Explains capabilities for workforce development at each maturity level Shows how to apply the framework as a workforce assessment standard and a guide in planning and implementing improvement Presents case studies to illustrate how the People CMM has lead organizations to effective, repeatable, and lasting success in workforce development The book is aimed at people responsible for developing and implementing human capital strategies and plans in their organizations, managing or developing the workforce, implementing advanced workforce practices, nurturing teams, and transforming organizational culture. It is especially useful for businesses undergoing critical organizational changes.

Modernizing Enterprise Java Academic Press

HYPERAUTOMATION is a collection of expert essays on low-code development and the future of business process automation. In each chapter, an academic, analyst, implementer, or end-user examines different aspects of low-code and automation in the enterprise, clarifying both value and barriers through personal experiences and insights. With contributions from: Dr. George Westerman, MIT - Neil Ward-Dutton, IDC - Lakshmi N, Tata Consultancy Services - Sidney Fernandes & Alice Wei, University of South Florida - Lisa Heneghan, KPMG - Chris Skinner, FinTech expert - John R. Rymer, Forrester (Emeritus) - Isaac Sacolick, StarCIO - Darren Blake, Bexley Neighbourhood Care - Rob Galbraith, InsureTech expert - Ron Tolido, Capgemini - Michael Beckley, Appian All proceeds from

the sale of this book will be donated to Black Girls Code, an organization providing young girls of color opportunities to learn in-demand skills in technology and computer programming.

Microsoft .NET - Architecting Applications for the Enterprise Microsoft Press

Perceptions that the pace of new-drug development has slowed and that the pharmaceutical industry is highly profitable have sparked concerns that significant problems loom for future drug development. This Congressional Budget Office (CBO) study-prepared at the request of the Senate Majority Leader-reviews basic facts about the drug industry's recent spending on research and development (R&D) and its output of new drugs. The study also examines issues relating to the costs of R&D, the federal government's role in pharmaceutical research, the performance of the pharmaceutical industry in developing innovative drugs, and the role of expected profits in private firms' decisions about investing in drug R&D. In keeping with CBO's mandate to provide objective, impartial analysis, the study makes no recommendations. David H. Austin prepared this report under the supervision of Joseph Kile and David Moore. Colin Baker provided valuable consultation...

Internet of Things (IoT) Lulu.com

The World is changing and then also how enterprises carry out innovation needs to change. The book presents new methods and tools (from Creativity to Engineering), aimed at promoting and sustaining enterprise innovation and production improvement. The book is primarily (but not exclusively) based on the new approaches, methods, frameworks, and tools conceived for enterprise innovation and production improvement, developed during the European Project BIVEE (Business Innovation for Virtual Enterprise Ecosystems.) Addressed topics range from Open Innovation in Virtual Enterprises to shared virtual spaces for collaborative creativity, to Innovation metrics and monitoring in the context of networked SMEs.

Omnia Sunt Communia Springer Science & Business Media

For those considering Extreme Programming, this book provides no-nonsense advice on agile planning, development, delivery, and management taken from the authors' many years of experience. While plenty of books address the what and why of agile development, very few offer the information users can apply directly.

Research and Development in the Pharmaceutical Industry (A CBO Study) "O'Reilly Media, Inc."

A sneak peek at up-and-coming trends in IT, a multidimensional vision for achieving business agility through agile architectures The Agile Architecture Revolution places IT trends into the context of Enterprise Architecture, reinventing Enterprise Architecture to support continuous business

transformation. It focuses on the challenges of large organizations, while placing such organizations into the broader business ecosystem that includes small and midsize organizations as well as startups. Organizes the important trends that are facing technology in businesses and public sector organizations today and over the next several years Presents the five broad organizing principles called Supertrends: location independence, global cubicle, democratization of technology, deep interoperability, and complex systems engineering Provides a new perspective on service-oriented architecture in conjunction with architectural approaches to cloud computing and mobile technologies that explain how organizations can achieve better business visibility through IT and enterprise architecture Laying out a multidimensional vision for achieving agile architectures, this book discusses the crisis points that promise sudden, transformative change, unraveling how organizations' spending on IT will continue to undergo radical change over the next ten years.

SOA Design Patterns "O'Reilly Media, Inc."

Part one of Machine-to-Machine (M2M) Communications covers machine-to-machine systems, architecture and components. Part two assesses performance management techniques for M2M communications. Part three looks at M2M applications, services, and standardization. Machine-to-machine communications refers to autonomous communication between devices or machines. This book serves as a key resource in M2M, which is set to grow significantly and is expected to generate a huge amount of additional data traffic and new revenue streams, underpinning key areas of the economy such as the smart grid, networked homes, healthcare and transportation. Examines the opportunities in M2M for businesses Analyses the optimisation and development of M2M communications Chapters cover aspects of access, scheduling, mobility and security protocols within M2M communications

Web Page Scripting Techniques Harvard Business Review Press

"This book could be described as an encyclopedia of service design-Erl leaves nothing to chance. Indispensable." -Steve Birkel, Chief IT Technical Architect, Intel Corp. "An absolute pleasure to read...the best SOA book I've read. A book I would recommend to all of my colleagues; it provides much insight to the topics often overlooked by most books in this genre...the visuals were fantastic." -Brandon Bohling, SOA Architecture and Strategy, Intel Corporation "This book is a milestone in SOA literature. For the first time we are provided with a practical guide on defining service characteristics and service design principles for SOA from a vendor-agnostic viewpoint. It's a great reference for SOA discovery, adoptions, and implementation projects." -Canyang Kevin Liu, Principal Enterprise Architect, SAP Americas, Inc. "I liked this book. It contains extremely important material for those who need to design services." -Farzin Yashar, IBM SOA Advanced Technologies "This book does a great job laying out benefits, key ideas and design principles behind successfully adopting service-oriented computing. At the same time, the book openly addresses challenges, risks and trade-offs that are in the way of adopting SOA in the real-world today. It moves away from ivory-tower views of service orientation, but still lays out a strong vision for SOA and outlines the changes necessary to realize the full potential." -Christoph Schittko, Senior Architect, Microsoft "I recommend this book to any SOA practitioner who wishes to empower themselves in making service design real...gives readers the 360° view into service design [and] gives SOA practitioners the depth and understanding needed into the principles of SOA to assist in the design of a mature and successful

SOA program." -Stephen G. Bennett, Americas SOA Practice Lead, BEA Systems "SOA projects are most successful when they are based on a solid technical foundation. Well accepted and established design principles are part of this foundation. This book takes a very structured approach at defining the core design principles for SOA, thus allowing the reader to immediately applying them to a project. Each principle is formally introduced and explained, and examples are given for how to apply it to a real design problem. A 'must read' for any architect, designer or developer of service oriented solutions." -Andre Tost, Senior Technical Staff Member, IBM Software Group "There are few references for SOA that give you the nuts and bolts and this one is at the top of the list. Well written and valuable as a reference book to any SOA practitioner." -Dr. Mohamad Afshar, Director of Product Management, Oracle Fusion Middleware, Oracle Corporation "A thorough examination of the considerations of service design. Both seasoned SOA practitioners and those endeavoring to realize services can benefit from reading this book." -Bill Draven, Enterprise Architect, Intel Corporation "There are very few who understand SOA like Thomas Erl does! The principle centric description of service orientation from Thomas canonizes the underpinnings of this important paradigm shift in creating agile and reusable software capabilities. The principles, so eloquently explained, leave little room for any ambiguity attached to the greater purpose of SOA. Most organizations today are creating services in a bottoms-up approach, realizing composition and reuse organically. The time is ripe for a book like this that prepares architects for a principle centric approach to SOA." -Hanu Kommalapati, Architect, Microsoft Corporation "Outstanding SOA literature uniquely focused on the fundamental services design with thorough and in-depth study on all practical aspects from design principles to methodologies. This book provides a systematic approach for SOA adoption essential for both IT management and professionals." -Robin Chen, PhD, Google, Inc. "Thomas Erl's books are always densely filled with information that's well structured. This book is especially insightful for Enterprise Architects because it provide s great context and practical examples. Part 1 of the book alone is worth getting the book for." -Markus Zirn, Senior Director, Product Management, Oracle Fusion Middleware, Oracle Corporation "A very clear discussion of the subject matter. Provides a good structure that facilitates understanding and readily highlights key points." -Kareem Yusuf, Director of SOA Strategy and Planning, IBM Software Group "I am very impressed. Comprehensive. Educative. This book helped me to step back and look at the SOA principles from broader perspective. I'd say this is a must-read book for SOA stakeholders." -Radovan Janecek, Director R&D, SOA Center, Hewlett-Packard "Very valuable guidance for understanding and applying SOA service design principles with concrete examples. A must read for the practitioner of SOA service design." -Umit Yalcinalp, PhD, Standards Architect, SAP "This book really does an excellent job of explaining the principles underpinning the value of SOA...Erl goes to great length to explain and give examples of each of the 8 principles that will significantly increase the readers ability to drive an SOA service design that benefits both business and IT." -Robert Laird, IT Architect, IBM EAI/SOA Advanced Technologies Group "This book strikes a healthy balance between theory and practice. It is a perfect complement to the SOA series by the author." -Prakash Narayan, Sun Microsystems "If you are going to be designing, developing, or implementing SOA, this is a must have book." -Jason "AJ" Comfort Sr., Booz Allen Hamilton "An excellent book for anyone who wants to understand service-orientation and the principles involved in designing services...a clear, concise and articulate exploration of the

eight design principles involved in analyzing, designing, implementing, and maintaining services..." - Anish Karmarkar, Oracle Corporation "Very well written, succinct, and easy to understand." -Raj Balasubramanian, IBM Software Group "Acomprehensive exploration of the issues of service design which has the potential to become the definitive work in this area." -James Pasley, Chief Technology Officer, Cape Clear Software "An excellent addition to any SOA library; it covers a wide range of issues in enough detail to be a valuable asset to anyone considering designing or using SOA based technologies." -Mark Little, Director of Standards, Red Hat "This book communicates complex concepts in a clear and concise manner. Examples and illustrations are used very effectively." - Darryl Hogan, Senior Architect, Microsoft "A work of genius...Offers the most comprehensive and thorough explanation on the principles of service design and what it means to be 'service oriented.'" "Erl's treatment of the complex world of service oriented architecture is pragmatic, inclusive of real world situations and offers readers ways to communicate these ideas through illustrations and well formulated processes." -David Michalowicz, MITRE Corporation "This is the book for the large organization trying to rationalize its IT assets and establish an agile platform for the future. By highlighting risk and rewards, Thomas Erl brings clarity to how Service Orientation can be applied to ensure a responsive IT organization. This book finally brings software engineering principles to address the real world development challenges being faced. To effectively serve the business, let alone embrace SOA, everyone involved should be familiar with the concepts investigated here. Thomas Erl thoroughly clarifies the nuances and defines the practice of service design. We expect that this will become a classic text in software engineering, corporate training and colleges." -Cory Isaacson, President, Rogue Wave Software and Ravi Palepu, SOA Author and Speaker "Thomas Erl does a great job...an easy read." -Michael H. Sor, Booz Allen Hamilton ..".a must read for SOA Architects to develop a firm foundation and understanding of the principles (and trade-offs) that make up a good SOA service. After reading this book, it finally 'clicked' as to why a properly designed SOA system is different (and better) than a system based on previous enterprise architectures." -Fred Ingham, Platinum Solutions Inc. "Lays a tremendous foundation for business and technical workers to come to common terms and expectations...incredibly enlightening to see the details associated with achieving the SOA vision." -Wayne P. Ariola, Vice President of Strategy, Parasoft "[Erl does] and excellent job of addressing the breadth of [his] audience to present to those new to SOA and weaved in enough detail to assist those who are already actively involved in SOA development." -R. Perry Smith, Application Program Manager, EDS/OnStar "It is easy to miss the big picture of what SOA means for the design of larger scale systems amidst the details of WS technologies. Erl helps provide a broader perspective, surveying the landscape from a design standpoint." -Jim Clune, Chief Architect, Parasoft "Lays a firm foundation for the underlying principles of good service design. Cuts through the hype and provides a cogent resource for improving architectural judgment on SOA projects." -Jim Murphy, Vice President of Product Management, Mindreef, Inc. "The first book to concisely, gradually and comprehensively explain how to apply SOA principles into enterprise-level software design. It is an excellent book." -Robin G. Qiu, Ph.D., Division of Engineering and Information Science, Pennsylvania State University "I really think that this is a very useful book that a lot of people really need out there in the industry." -Dr. Arnaud Simon, Principal Software Engineer, Red Hat ..".indispensable companion to designing and implementing a

service-oriented architecture. It condenses all information necessary to design services and is the most relevant source I know if in the field." "[This book is] not only helpful, but fundamental to successfully designing an SOA." -Phillipp Offermann, Research Analyst, University of Berlin "Service-Oriented Architecture is an important topic in IT today. Its vast scope could span an organization's enterprise. Designing it properly is a major undertaking. This book provides timely, expert and comprehensive discussions on the principles of service design. Thomas has a keen sense in identifying the subtle points of various subjects and explains them in an easy-to-understand way. The book is a valuable resource for IT professionals working in SOA." -Peter H. Chang, PhD, Associate Professor of Information Systems, Lawrence Technological University **The Definitive Guide to Service Engineering** The key to succeeding with service-oriented architecture (SOA) is in comprehending the meaning and significance of its most fundamental building block: the service. It is through an understanding of service design that truly "service-oriented" solution logic can be created in support of achieving the strategic goals associated with SOA and service-oriented computing. Bestselling SOA author Thomas Erl guides you through a comprehensive, insightful, and visually rich exploration of the service-orientation design paradigm, revealing exactly how services should and should not be designed for real-world SOA. This book's in-depth coverage includes Over 240 full-color illustrations. A concise introduction to SOA and service-oriented computing concepts and benefits. A thorough exploration of the service-orientation design paradigm as represented by eight specific design principles. A comparison of service-oriented and object-oriented concepts and principles and a clear definition of what qualifies as "service-oriented" logic. Detailed coverage of four different forms of service-related design granularity. An exhaustive examination of service contracts, with an emphasis on standardization, abstraction, and the utilization of WS-Policy, XML Schema, and WSDL definitions. A comprehensive study of positive and negative service-related coupling types with an emphasis on the requirements to attaining a suitable level of loose coupling. An inside look into how commercial design approaches are incorporated to achieve truly agnostic and reusable service logic. Techniques for maximizing service reliability, scalability, and performance by instilling high levels of autonomy and emphasizing stateless design. Approaches for positioning services as highly discoverable and interpretable enterprise resources. Unprecedented coverage of how to design services for participation in complex compositions. The definition of concrete links between each design principle and the strategic goals and benefits of SOA and service-oriented computing. Numerous cross-references to key design patterns documented separately in SOA: Design Patterns. www.prenhallprofessional.com www.soabooks.com www.soasystems.com Preface xxv Chapter 1: Introduction 1 Chapter 2: Case Study Background 19 Part I: Fundamentals Chapter 3: Service-Oriented Computing and SOA 25 Chapter 4: Service-Orientation 67 Chapter 5: Understanding Design Principles 103 Part II: Design Principles Chapter 6: Service Contracts (Standardization and Design) 125 Chapter 7: Service Coupling (Intra-Service and Consumer Dependencies) 163 Chapter 8: Service Abstraction (Information Hiding and Meta Abstraction Types) 211 Chapter 9: Service Reusability (Commercial and Agnostic Design) 253 Chapter 10: Service Autonomy (Processing Boundaries and Control) 293 Chapter 11: Service Statelessness (State Management Deferral and Stateless Design) 325 Chapter 12: Service Discoverability (Interpretability and Communication) 361 Chapter 13: Service Composability (Composition Member Design and Complex Compositions) 387 Part III:

Supplemental Chapter 14: Service-Oriented and Object-Oriented: A Comparison of Principles and Concepts 445 Chapter 15: Supporting Practices 477 Chapter 16: Mapping Service-Oriented Principles to Strategic Goals 497 Appendices Appendix A: Case Study Conclusion 513 Appendix B: Process Descriptions 517 Appendix C: Principles and Patterns Cross-Reference 529 Additional Resources 533 About the Author 535 About the Photos 537 Index 539

Principles of Stakeholder Management Pearson Education

Written in a learn-by-example approach, *Web Page Creative Techniques* also approaches topics and tasks from a reference point of view. The book focuses on deconstructing the best uses of scripting methods on the Web.

The Circle of Profit Pearson Education

How Service Orientation Will Change Your Business "The real value of this book is that it makes SOA and Webservices, which are critical and business-transforming, crystal-clear to the layman, both business and IT leaders. The book stays focused on the real-world issues facing business and government institutions today. In an industry full of experts of many stripes, Ron and Jason are the real thing: savvy, experienced, and realistic. They have produced a must-read book for management." —Paul Lipton, Senior Architect, Unicenter Web Services and Application Management Computer Associates "This is by far the finest publication on SOA of our time. From cover to back, *Service Orient or Be Doomed!* strips away the layers of confusion most IT stakeholders face when confronted with enterprise architecture, and illustrates pragmatic and practical paths towards a sustainable and efficient enterprise architecture. Both the technically savvy and the bean counters will enjoy this book that speaks to the critical points they need to understand." —Duane A. Nickull Senior Standards Strategist, Adobe Systems, Inc. Chair, OASIS SOA Reference Model Technical Committee Vicechair, United Nations CEFAC (UN/CEFAC) "If you're looking for a guide that's based on reality, this is it. These guys know how you can service-orient your enterprise and have the best chance of success. This book is the best SOA tool you can buy. I'm recommending it to everyone." —Dave Linthicum, CEO, BRIDGEWERX "Jason and Ron are experts on Service-Oriented Architecture (SOA) and have written the first book that is aimed at helping a non-technical businessperson understand why the SOA computing revolution is critical to business. Rather than provide a nerdy death via buzzword book, Jason and Ron take a humorous, clever, and insightful romp through this new technology and how it impacts business in general." —Brad Feld, Mobius Venture Capital Authors Jason Bloomberg and Ronald Schmelzer—senior analysts for highly respected IT advisory and analysis firm ZapThink—say it all in the title of their new book, *Service Orient or Be Doomed!*: How Service Orientation Will Change Your Business. That is, if you fail to service orient your company, you will fail in competing with the organizations that do. This provocative new book takes service orientation out of its more familiar technological surroundings within service-oriented architecture and introduces it as a philosophy that advocates its rightful place within a business context, redefining it as a new way of thinking about organizing your business and its processes. Informal, challenging, and intelligent in style, *Service Orient or Be Doomed!*: How Service Orientation Will Change Your Business shows you how you can best use technology resources to meet your company's business goals and empower your company to go from "stuck" to "competitive."

Enterprise IoT John Wiley & Sons

In the wake of socialism's demise and liberalism's loss of direction, new ideas are needed for the next major realignment of the social and political domain. Making a unique contribution to the idea of 'the commons', this book offers a radical form of direct democracy with real-world implications. But whereas much of the current scholarship has looked at the commons from the perspective of governance, this book instead focuses on 'commoning' as social practice. Perspectives on Commoning argues that the commons are not just resources external to us, but are a function or characterisation of what we do. Thus, we can talk of the act of commoning, positioning our behaviour beyond the domains of the private and the public, beyond the dichotomy of capitalism versus socialism. Covering everything from biopolitics to urban spaces, this impressive range of international contributors address the commons as both theory and history, providing a useful review of current conceptions as well as practical proposals for the future. A unique consolidation of philosophy, sociology and economics, the book shows how a new understanding of the commons as practice will help to achieve its full emancipatory potential.

The Innovator's Method Clarkson Centre for Business Ethics, Joseph L. Rotman School of Management, University of Toronto

A software architect's digest of core practices, pragmatically applied *Designing effective architecture is your best strategy for managing project complexity—and improving your results*. But the principles and practices of software architecting—what the authors call the "science of hard decisions"—have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success—and deliver more successful solutions. In this fully updated Second Edition, you will: Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain-driven design in both theory and implementation Shift your approach to code first, model later—including multilayer architecture Capture the benefits of prioritizing software maintainability See how readability, testability, and extensibility lead to code quality Take a user experience (UX) first approach, rather than designing for data Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer, including patterns and implementation.

Common Space CRC Press

Analyses new political economy theory and its role in bringing about radical social change

Domain-Driven Design Reference Bloomsbury Publishing

Deep Learning in Bioinformatics: Techniques and Applications in Practice introduces the topic in an easy-to-understand way, exploring how it can be utilized for addressing important problems in bioinformatics, including drug discovery, de novo molecular design, sequence analysis, protein structure prediction, gene expression regulation, protein classification, biomedical image processing and diagnosis, biomolecule interaction prediction, and in systems biology. The book also presents theoretical and practical successes of deep learning in bioinformatics, pointing out problems and suggesting future research directions. Dr. Izadkhah provides valuable insights and will help researchers use deep learning techniques in their biological and bioinformatics studies. Introduces deep learning in an easy-to-understand way Presents how deep learning can be utilized for

addressing some important problems in bioinformatics Presents the state-of-the-art algorithms in deep learning and bioinformatics Introduces deep learning libraries in bioinformatics

Advanced Web Services Bloomsbury Publishing

In this weaving of radical political economy, *Omnia Sunt Communia* sets out the steps to postcapitalism. By conceptualising the commons not just as common goods but as a set of social systems, Massimo De Angelis shows their pervasive presence in everyday life, mapping out a strategy for total social transformation. From the micro to the macro, De Angelis unveils the commons as fields of power relations – shared space, objects, subjects – that explode the limits of daily life under capitalism. He exposes attempts to co-opt the commons, through the use of code words such as 'participation' and 'governance', and reveals the potential for radical transformation rooted in the reproduction of our communities, of life, of work and of society as a whole.

The Art of Agile Development Bookbaby

As computation continues to move into the cloud, the computing platform of interest no longer resembles a pizza box or a refrigerator, but a warehouse full of computers. These new large datacenters are quite different from traditional hosting facilities of earlier times and cannot be viewed simply as a collection of co-located servers. Large portions of the hardware and software resources in these facilities must work in concert to efficiently deliver good levels of Internet service performance, something that can only be achieved by a holistic approach to their design and deployment. In other words, we must treat the datacenter itself as one massive warehouse-scale computer (WSC). We describe the architecture of WSCs, the main factors influencing their design, operation, and cost structure, and the characteristics of their software base. We hope it will be useful to architects and programmers of today's WSCs, as well as those of future many-core platforms which may one day implement the equivalent of today's WSCs on a single board. Table of Contents: Introduction / Workloads and Software Infrastructure / Hardware Building Blocks / Datacenter Basics / Energy and Power Efficiency / Modeling Costs / Dealing with Failures and Repairs / Closing Remarks

Briggs Dog Ear Publishing

Current hype aside, the Internet of Things will ultimately become as fundamental as the Internet itself, with lots of opportunities and trials along the way. To help you navigate these choppy waters, this practical guide introduces a dedicated methodology for businesses preparing to transition towards IoT-based business models. With a set of best practices based on case study analysis, expert interviews, and the authors' own experience, the Ignite | IoT Methodology outlined in this book delivers actionable guidelines to assist you with IoT strategy management and project execution. You'll also find a detailed case study of a project fully developed with this methodology. This book consists of three parts: Illustrative case studies of selected IoT domains, including smart energy, connected vehicles, manufacturing and supply chain management, and smart cities The Ignite | IoT Methodology for defining IoT strategy, preparing your organization for IoT adoption, and planning and executing IoT projects A detailed case study of the IIC Track & Trace testbed, one of the first projects to be fully developed according to the Ignite | IoT Methodology

Machine-to-machine (M2M) Communications Microsoft Press

In cooperation with experts and practitioners throughout the SOA community, best-selling author

Thomas Erl brings together the de facto catalog of design patterns for SOA and service-orientation. More than three years in development and subjected to numerous industry reviews, the 85 patterns in this full-color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern-day SOA. Through numerous examples, individually documented pattern profiles, and over 400 color illustrations, this book provides in-depth coverage of: • Patterns for the design, implementation, and governance of service inventories–collections of services representing individual service portfolios that can be independently modeled, designed, and evolved. • Patterns specific to service-level architecture which pertain to a wide range of design areas, including contract design, security, legacy encapsulation, reliability, scalability, and a variety of implementation and governance issues. • Service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions, including topics such as runtime messaging and message design, inter-service security controls, and transformation. • Compound patterns (such as Enterprise Service Bus and Orchestration) and recommended pattern application sequences that establish foundational processes. The book begins by establishing SOA types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service-oriented computing in general. These chapters bookend the pattern catalog to provide a clear link between SOA design patterns, the strategic goals of service-oriented computing, different SOA types, and the service-orientation design paradigm. This book series is further supported by a series of resources sites, including soabooks.com, soaspecs.com, soapatterns.org, soamag.com, and soaposters.com.

The Business of Software Elsevier

How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book, based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

Big Data and HPC: Ecosystem and Convergence John Wiley & Sons

Due to the increasing need to solve complex problems, high-performance computing (HPC) is now one of the most fundamental infrastructures for scientific development in all disciplines, and it has progressed massively in recent years as a result. HPC facilitates the processing of big data, but the tremendous research challenges faced in recent years include: the scalability of computing performance for high velocity, high variety and high volume big data; deep learning with massive-scale datasets; big data programming paradigms on multi-core; GPU and hybrid distributed environments; and unstructured data processing with high-performance computing. This book presents 19 selected papers from the TopHPC2017 congress on Advances in High-Performance Computing and Big Data Analytics in the Exascale era, held in Tehran, Iran, in April 2017. The book is divided into 3 sections: State of the Art and Future Scenarios, Big Data Challenges, and HPC Challenges, and will be of interest to all those whose work involves the processing of Big Data and the use of HPC.