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Semantic Service Provisioning Dominik Kuroпка 2008-04-19 Service-oriented computing has recently gained extensive momentum in both industry and academia, and major software vendors hook on to the service paradigm and tailor their software systems towards services in order to accommodate ever-changing process and product requirements in today's dynamic market environments. While dynamic binding of services at runtime was identified as a core functionality of service-based environments as far back as 2000, its industrial-strength implementation has yet to be achieved. The main reason for this is the lack of rich service specifications, concepts, and tools to process them. This book introduces advanced concepts in service provisioning and service engineering, including semantic concepts, dynamic discovery and composition, and illustrates them in a concrete business use case scenario. To prove the validity of the concepts and technologies, a semantic service provisioning reference architecture framework as well as a prototypical implementation of its subsystems and a prototypical realization of a proper business scenario are presented. Thus the book goes way beyond current service-based software technologies by providing a coherent and consistent set of technologies and systems functionality that realizes advanced concepts in service provisioning. Both the use case scenario and the provisioning platform have already been substantiated and implemented by the EU-funded Adaptive Services Grid project. The book therefore presents state-of-the-art research results that have already passed a real industrial implementation evaluation which is based on the work of over 20 European partners cooperating in the field of semantic service provisioning.

Java SOA Cookbook Eben Hewitt 2009-03-17 Focuses on service-oriented architecture: web services, orchestrations, policies, and more - for developers.

Service Oriented Modeling - 1st International Workshop on Service Oriented Modeling Maximilian Ahrens 2006

Oracle SOA Suite 11g Handbook Lucas Jellema 2010-09-22 Master Oracle SOA Suite 11g Design and implement an agile service-oriented enterprise computing infrastructure using the detailed information in this Oracle Press guide. Written by an Oracle ACE director, Oracle SOA Suite 11g Handbook uses a hands-on case study to illustrate each programming, management, and governance concept. Get expert techniques for modeling and implementing complex business processes and deploying and securing Web services, while maximizing decoupling and code reuse. Install Oracle SOA Suite 11g or migrate from a previous version Design and develop composite applications using SCA and SDO Model processes using BPEL, BPMN, and human task components Connect components through mapping and filtering with Oracle Mediator Apply the principles of event-driven architecture through complex event processing, the event delivery network, and Oracle Business Activity Monitoring server Benefit from the power of Java through the Spring component and the interaction with Oracle Validate, enrich, transform, route, and operate on data using the Oracle Service Bus Deploy, test, and manage composite applications

from the Oracle Enterprise Manager control console

Oracle Soa Suite 11G Administrator's Handbook Ahmed Aboulnaga 2012-08-24 The book explains core concepts while providing real world implementation specifics, detailing the administration-related activities with Oracle SOA Suite 11g with a step-by-step approach using real-world examples. The authors demonstrate the use of WLST scripts that administrators can reuse and extend to perform most administration tasks such as deployments, tuning, migration, and installation. If you are an Oracle SOA Suite administrator, WebLogic Server administrator, Database administrator, or developer that needs to administer and secure your Oracle SOA Suite services and applications, then this book is for you. Basic knowledge of Oracle SOA Suite Administration is beneficial, but not necessary.

Coordination Models and Languages Doug Lea 2008-05-27 Modern information systems rely increasingly on combining concurrent, distributed, real-time, reconfigurable and heterogeneous components. New models, architectures, languages, and verification techniques are necessary to cope with the complexity induced by the demands of today's software development. COORDINATION aims to explore the spectrum of languages, middleware, services, and algorithms that separate behavior from interaction, therefore increasing modularity, simplifying reasoning, and ultimately enhancing software development. This volume contains the proceedings of the 10th International Conference on Coordination Models and Languages, COORDINATION 2008, held in Oslo, Norway in June 2008, as part of the federated DisCoTec conference. COORDINATION is itself a part of a series whose proceedings have been published in LNCS volumes 1061, 1282, 1594, 1906, 2315, 2949, 3454, 4038, and 4467. From the 61 submissions received from around the world, the Program Committee selected 21 papers for presentation and publication in this volume on the basis of originality, quality, and relevance to the topics of the conference. Each submission received at least three reviews. As with previous editions, the paper submission and selection processes were managed entirely electronically. This was accomplished using EasyChair, a free Web-based conference management system. In addition to the technical paper presentations, COORDINATION 2008 hosted an invited presentation by Matt Welsh from Harvard University. We are grateful to all the Program Committee members who devoted much effort and time to read and discuss the papers. Moreover, we acknowledge the help of additional external reviewers who evaluated submissions in their area of expertise.

Finally, we would like to thank the authors of all the submitted papers and the conference attendees, for keeping this research community lively and interactive, and ultimately ensuring the success of this conference series.

Effective and Efficient Process Engine Evaluation Simon Harrer 2017-10-17

Intelligent Information and Database Systems Ngoc Thanh Nguyen 2011-04-16 The two-volume set LNAI 6591 and LNCS 6592 constitutes the refereed proceedings of the Third International Conference on Intelligent Information and Database Systems, ACIIDS 2011, held in Daegu, Korea, in April 2011. The 110 revised papers presented together with 2 keynote speeches were carefully reviewed and selected from 310 submissions. The papers are thematically divided into two volumes; they cover the following topics: intelligent database systems, data warehouses and data mining, natural language processing and computational linguistics, semantic Web, social networks and recommendation systems, technologies for intelligent information systems, collaborative systems and applications, e-business and e-commerce systems, e-learning systems, information modeling and requirements engineering, information retrieval systems, intelligent agents and multi-agent systems, intelligent information systems, intelligent internet systems, intelligent optimization techniques, object-relational DBMS, ontologies and knowledge sharing, semi-structured and XML database systems, unified modeling language and unified processes, Web services and semantic Web, computer networks and communication systems.

Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2019-11-01 Business practices are constantly evolving in order to meet growing customer demands. Evaluating the role of logistics and supply

chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. Supply Chain and Logistics Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that centers on the effective management of risk factors and the implementation of the latest supply management strategies. It also explores the field of digital supply chain optimization and business transformation. Highlighting a range of topics such as inventory management, competitive advantage, and transport management, this multi-volume book is ideally designed for business managers, supply chain managers, business professionals, academicians, researchers, and upper-level students in the field of supply chain management, operations management, logistics, and operations research.

Middleware 2009 Jean M. Bacon 2009-11-06 This book constitutes the proceedings of the 10th International Conference on Middleware, held in Urbana, IL, USA during November 30 - December 4. The 21 papers presented have been selected from 110 submissions. The papers are organized in topical sections on communications (protocols and optimization), service component composition/adaptation, monitoring, pervasive, stream processing, failure resilience, and support for testing.

Medical Informatics: Concepts, Methodologies, Tools, and Applications Tan, Joseph 2008-09-30 Provides a collection of medical IT research in topics such as clinical knowledge management, medical informatics, mobile health and service delivery, and gene expression.

Siebel BPEL

InfoWorld 2004-12-20 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Service Oriented Architecture For Dummies Judith S. Hurwitz 2006-10-25 SOA is the most important initiative facing IT and is difficult to grasp. This book demystifies the topic of SOA and makes it accessible to those people who hear the term but aren't really sure what it means. It covers what SOA is, why it matters, how it can impact businesses, and how to take steps to implement SOA in a corporate environment.

WS-BPEL 2.0 for SOA Composite Applications with Oracle SOA Suite 11g Matjaz B. Juric 2010-09-06 Define, model, implement, and monitor real-world BPEL business processes with SOA powered BPM for Oracle SOA Suite with this book and eBook.

InfoWorld 2004-08-30 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

ICCS 2007 Babak Akhgar 2009-12-24 The 15th International Workshop on Conceptual Structures ICCS 2007 brings together numerous discussions between international groups of researchers from the field of Information and Communications Technology (ICT). At ICCS 2007 some of the world's best minds in information technology, arts, humanities and social science met to explore novel ways that ICT can augment human intelligence. The workshops include, Rough sets and data mining, and ubiquitous and collaborative computing.

Grid Computing Lizhe Wang 2018-10-03 Identifies Recent Technological Developments

Worldwide The field of grid computing has made rapid progress in the past few years, evolving and developing in almost all areas, including concepts, philosophy, methodology, and usages.

Grid Computing: Infrastructure, Service, and Applications reflects the recent advances in this field, covering the research aspects that involve infrastructure, middleware, architecture, services, and applications. Grid Systems Across the Globe The first section of the book focuses on infrastructure and middleware and presents several national and international grid systems. The text highlights China Research and Development environment Over Wide-area Network (CROWN), several ongoing cyberinfrastructure efforts in New York State, and Enabling Grids for E-science (EGEE), which is co-funded by the European Commission and the world's largest multidisciplinary grid infrastructure today. The second part of the book discusses recent grid service advances. The authors examine the UK National Grid Service (NGS), the concept of resource allocation in a grid

environment, OMIIBPEL, and the possibility of treating scientific workflow issues using techniques from the data stream community. The book describes an SLA model, reviews portal and workflow technologies, presents an overview of PKIs and their limitations, and introduces PIndex, a peer-to-peer model for grid information services. New Projects and Initiatives The third section includes an analysis of innovative grid applications. Topics covered include the WISDOM initiative, incorporating flow-level networking models into grid simulators, system-level virtualization, grid usage in the high-energy physics environment in the LHC project, and the Service Oriented HLA RTI (SOHR) framework. With a comprehensive summary of past advances, this text is a window into the future of this nascent technology, forging a path for the next generation of cyberinfrastructure developers.

Computerworld 2005-06-20 For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Environmental Software Systems. Frameworks of eEnvironment Jiri Hrebicek 2011-06-17 This book constitutes the refereed proceedings of the 9th IFIP WG 5.11 International Symposium on Environmental Software Systems, ISESS 2011, held in Brno, Czech Republic, in June 2011. The 68 revised full papers presented together with four invited talks were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: eEnvironment and cross-border services in digital agenda for Europe; environmental information systems and services - infrastructures and platforms; semantics and environment; information tools for global environmental assessment; climate services and environmental tools for urban planning and climate change - applications and services.

Business Process Execution Language for Web Services Matjaz B. Juric 2006-01-09 This book is aimed at architects and developers in the design, implementation, and integration phases of advanced information systems and e-business solutions, developing business processes and dealing with the issues of composition, orchestration, transactions, coordination, and security. The book presumes knowledge of XML and web services, web services development (either on J2EE or .NET), and multi-tier architecture.

The ABCs of Workflow for E-Business Suite Release 11i and Release 12 Karen Brownfield 2008-08 Workflow is Oracle's E-Business Suite tool for modeling business processes. Workflow combines procedures performed by the computer with a system of notifications that allow humans to better direct the computer how to proceed. This book provides a very thorough explanation of the various components of Workflow. You'll learn step by step how to develop and test custom Workflows, and how to administer Workflow using OAM, the Workflow Management screens, and Oracle Diagnostics. This book also explains how the underlying tables store the data generated by Workflow, and how to perform the setups required for a few of the most commonly used Oracle Workflows. The book also includes SQL scripts and sample procedures that we use at Solution Beacon to assess and solve Workflow problems, as well as DBA topics like cloning considerations and partitioning Workflow objects.

Oracle SOA BPEL Process Manager 11gR1 – A Hands-on Tutorial Ravi Saraswathi 2013-01-01 This hands-on, example-driven guide is a practical getting started tutorial with plenty of step-by-step instructions for beginner to intermediate level readers working with BPEL PM in Oracle SOA Suite. Written for SOA developers, administrators, architects, and engineers who want to get started with Oracle BPEL PM 11g. No previous experience with BPEL PM is required, but an understanding of SOA and web services is assumed.

Fundamental Approaches to Software Engineering Alexander Egyed 2015-03-31 This book constitutes the proceedings of the 18th International Conference on Fundamental Approaches to Software Engineering, FASE 2015, held in London, UK, in April 2015, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2015. The 22 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 80 submissions.

They are organized in topical sections named: models and synthesis; testing and fault localization; modeling; verification; modeling and adaptation; and applications.

Test and Analysis of Web Services Luciano Baresi 2007-09-13 The authors have here put together the first reference on all aspects of testing and validating service-oriented architectures. With contributions by leading academic and industrial research groups it offers detailed guidelines for the actual validation process. Readers will find a comprehensive survey of state-of-the-art approaches as well as techniques and tools to improve the quality of service-oriented applications. It also includes references and scenarios for future research and development.

Oracle Soa Suite 11g Eai Esb 2013-11 This book is an introduction to Oracle SOA Suite 11g. It introduces you to this most useful tool and provides numerous hands on examples of how to use the product. SOA Suite 11g is known as among other things a BPEL engine (one of its many engines) that is used as the "homogenizing" technology because of its ability to unify various products. Although it contains many engines, the design time experience is singular and abstracts the deep technology under the covers while exposing the full functionality through the interface. The runtime is also bundled nicely into a seamless platform based on WebLogic that provides full clustering, fail-over, and extensibility support. In addition to the raw platform, SOA supports a vast range of Adapters that are covered here. From the Web Service Adapter to the Database Adapter to the FTP Adapter and many more. These adapter allow much easier integration with native technologies and other 3rd Party technologies. The introduction of SOA Suite through this book is meant to be experiential. The theory is minimized and the practical hands-on experience is maximized. You will learn by doing.

Oracle Information Integration, Migration, and Consolidation Tom Laszewski 2011-09-13 The definitive book and eBook guide to Oracle information integration and migration in a heterogeneous world.

Workflows for e-Science Ian J. Taylor 2007-12-31 This is a timely book presenting an overview of the current state-of-the-art within established projects, presenting many different aspects of workflow from users to tool builders. It provides an overview of active research, from a number of different perspectives. It includes theoretical aspects of workflow and deals with workflow for e-Science as opposed to e-Commerce. The topics covered will be of interest to a wide range of practitioners.

Database and Expert Systems Applications Stephane Bressan 2006-08-29 This book constitutes the refereed proceedings of the 17th International Conference on Database and Expert Systems Applications, DEXA 2006. The book presents 90 revised full papers together with 1 invited paper. The papers are organized in topical sections on XML, data and information, data mining and data warehouses, database applications, WWW, bioinformatics, process automation and workflow, knowledge management and expert systems, database theory, query processing, and privacy and security.

InfoWorld 2005-10-10 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

e-Infrastructure and e-Services for Developing Countries Karl Jonas 2013-10-17 This book constitutes the thoroughly refereed post-conference proceedings of the 4th International ICST Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2012, held in Yaounde, Cameroon, in November 2012. The 24 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics in the field of information and communication infrastructures and are grouped in topical sections on: e-Infrastructure, e-Services, e-Society, e-Health, and e-Security.

Oracle SOA Suite 12c Administrator's Guide Arun Pareek 2015-11-27 A guide to everything an Oracle SOA Suite 12c administrator needs to hit the ground running About This Book Understand core administrative tasks such as deployments, purging, startup and shutdown, configuration, and backup and recovery Manage, monitor, and troubleshoot SOA composites and OSB services Follow step-by-step instructions to easily and quickly install a highly available two-node cluster

Who This Book Is For With topic areas ranging from the simple to the complex, this book is intended for novice, mid-level, and experienced administrators of the Oracle SOA Suite 12c platform as well as Oracle WebLogic Server and Oracle Database administrators interested in diving into the product. What You Will Learn Navigate Oracle Enterprise Manager Fusion Middleware Control Monitor and manage the Oracle SOA Suite 12 c infrastructure Deploy and promote code Monitor and manage services Configure and administer the environment Manage the dehydration store and enterprise scheduler service Troubleshoot Oracle SOA Suite 12c infrastructure Set up backups, recovery, and high availability In Detail Oracle SOA Suite 12 c is the most comprehensive and integrated infrastructure on the market today that is used for building applications based on service-oriented architecture. With the vast number of features and capabilities that Oracle SOA Suite 12c has to offer comes numerous complexities and challenges for administration. Oracle SOA Suite 12c Administrator's Guide covers all the core areas of administration needed for you to effectively manage and monitor the Oracle SOA Suite environment and its transactions, from deployments, to monitoring, to performance tuning, and much, much more. Manage, monitor, and troubleshoot SOA composites and OSB services from a single product set. Understand core administrative activities such as deployments, purging, startup and shutdown, configuration, backup, and recovery. Also learn about new features such as Oracle Enterprise Scheduler, lazy loading, work manager groups, high availability, and more. Style and approach Presented in a reference guide format where chapters can be read in any sequence, this book explains the core concepts while providing real-world implementation specifics, detailing the what, why, and how of all the administration-related activities that involve Oracle SOA Suite 12c. We take a step-by-step approach and offers tips, instructions, and examples that you can easily follow and execute.

Computational Intelligence for Remote Sensing Manuel Grana 2008-09-08 This book is a composition of different points of view regarding the application of Computational Intelligence techniques and methods to Remote Sensing data and applications. The classes of images dealt with are mostly multispectral-hyperspectral images.

InfoWorld 2005-02-07 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Distributed Applications and Interoperable Systems Twittie Senivongse 2009-06-04 This book constitutes the refereed proceedings of the 9th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2009, held in Lisbon, Portugal, in June 2009. The DAIS conference was held as part of the federated event on Distributed Computing Techniques (DisCoTec), together with the 11th International Conference on Coordination Models and Languages (Coordination 2009) and the IFIP WG 6.1 International Conference on Formal Techniques for Distributed Systems (FMOODS/FORTE 2009). The 12 revised full papers presented were carefully reviewed and selected from 32 submissions. The papers address service orientation, quality of service and service contract, business processes, Web services, service components, algorithms and protocols supporting dependability, fault tolerance, data replication, group communication, adaptive and collaborative systems, context awareness, model-driven development, middleware for ubiquitous computing and sensor networks, ad hoc network protocols, peer-to-peer systems, and overlays. They are organized in topical sections peer-to-peer networks, adhoc networks, dependability, and infrastructure and services.

The CHORCH Approach Andreas Schönberger 2012 The establishment and implementation of cross-organizational business processes is an implication of today's market pressure for efficiency gains. In this context, Business-To-Business integration (B2Bi) focuses on the information integration aspects of business processes. A core task of B2Bi is providing adequate models that capture the message exchanges between integration partners. Following the terminology used in the SOA domain, such models will be called choreographies in the context of this work. Despite the enormous economic importance of B2Bi, existing choreography languages fall short of fulfilling all relevant requirements of B2Bi scenarios. Dedicated B2Bi choreography standards allow for

inconsistent outcomes of basic interactions and do not provide unambiguous semantics for advanced interaction models. In contrast to this, more formal or technical choreography languages may provide unambiguous modeling semantics, but do not offer B2Bi domain concepts or an adequate level of abstraction. Defining valid and complete B2Bi choreography models becomes a challenging task in the face of these shortcomings. At the same time, invalid or underspecified choreography definitions are particularly costly considering the organizational setting of B2Bi scenarios. Models are not only needed to bridge the typical gap between business and IT, but also as negotiation means among the business users of the integration partners on the one hand and among the IT experts of the integration partners on the other. Misunderstandings between any two negotiation partners potentially affect the agreements between all other negotiation partners.

BPEL and Java Cookbook Jurij Laznik 2013-09-17 The book is written in a Cookbook format with practical recipes aimed at helping you extend BPEL capabilities with Java. This book is aimed at Java developers who use BPEL programming to develop web services in SOA development. It is assumed that the readers are experienced with Java programming and SOA, but knowledge of BPEL is not necessarily required.

Networked Digital Technologies, Part I Filip Zavoral 2010-06-30 On behalf of the NDT 2010 conference, the Program Committee and Charles University in Prague, Czech Republic, we welcome you to the proceedings of the Second International Conference on 'Networked Digital Technologies' (NDT 2010). The NDT 2010 conference explored new advances in digital and Web technology applications. It brought together researchers from various areas of computer and information sciences who addressed both theoretical and applied aspects of Web technology and Internet applications. We hope that the discussions and exchange of ideas that took place will contribute to advancements in the technology in the near future. The conference received 216 papers, out of which 85 were accepted, resulting in an acceptance rate of 39%. These accepted papers are authored by researchers from 34 countries covering many significant areas of Web applications. Each paper was evaluated by a minimum of two reviewers. Finally, we believe that the proceedings document the best research in the studied areas. We express our thanks to the Charles University in Prague, Springer, the authors and the organizers of the conference.

Distributed Applications and Interoperable Systems Karl Michael Göschka 2012-06-09 This book constitutes the refereed proceedings of the 12th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2012, held in Stockholm, Sweden, in June 2012 as one of the DisCoTec 2012 events. The 12 revised full papers and 9 short papers presented were carefully reviewed and selected from 58 submissions. The papers are organized in topical sections on peer-to-peer and large scale systems; security and reliability in web, cloud, p2p, and mobile systems; wireless, mobile, and pervasive systems; multidisciplinary approaches and case studies, ranging from Grid and parallel computing to multimedia and socio-technical systems; and service-oriented computing and e-commerce.

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