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Advances in Grid Computing - EGC 2005 Jul 22

2020 We are proud to present to you the proceedings of the European Grid Conference 2005, held at the Science Park Amsterdam during February 14 –16.

Service Discovery Within a Service Oriented Architecture Dec 07 2021

Service-Oriented Modeling Dec 19 2022 Answers to your most pressing SOA development questions How do we start with service modeling? How do we analyze services for better reusability? Who should be involved? How do we create the best architecture model for our organization? This must-read for all enterprise leaders gives you all the answers and tools needed to develop a sound service-oriented architecture in your organization. Praise for Service-

Oriented Modeling Service Analysis, Design, and Architecture "Michael Bell has done it again with a book that will be remembered as a key facilitator of the global shift to Service-Oriented Architecture. . . . With this book, Michael Bell provides that foundation and more-an essential bible for the next generation of enterprise IT." -Eric Pulier, Executive Chairman, SOA Software "Michael Bell's insightful book provides common language and techniques for business and technology organizations to take advantage of the SOA paradigm. By focusing modeling techniques on the business problem, Bell provides a way for professionals to work throughout the life cycle to create reusable and enduring services." -Mike Zbranak, CIO, Chase Card Services "This book will become an imperative business and technology service-oriented modeling recipe for any manager, architect, modeler, analyst, and developer in today's software development industry." -Jeff Schneider, CEO, MomentumSI "'Innovative' and 'groundbreaking' are words that best describe Michael Bell's Service-Oriented Modeling. It depicts a true service modeling approach that elegantly closes a clear and critical service modeling gap in the SOA industry. This holistic book ties these concepts together using real-world examples across a service life cycle that transitions services from ideas and concepts into production assets that deliver business value. A must-read for business and technical SOA practitioners." -Eric A. Marks, CEO, AgilePath

Corporation "As hot as SOA is today, many business and technology professionals still find it challenging to mind the gap between their disparate methodologies and objectives. Herein Michael Bell speaks clearly to both camps in straightforward language, outlining disciplines each can use to communicate effectively and advance the realization of corporate aims. This book is a bible for all who seek to drive business/technology into the future." -Mark Edward Goodrich, Director, Investing Product Management, Reuters Media "This book takes senior IT architects and systems designers into the depths of modeling for SOA, with a fresh new perspective on tools, terminology, and how to turn the theory into practice. His full life-cycle approach balances process, control, and accountability to align all the participants in the delivery pipeline-clearing the road for successful SOA business solutions." -Phil Gilligan, Chief Technology Officer, EBS

Advances in Service-Oriented and Cloud

Computing Jun 01 2021 This volume contains the technical papers presented in the workshops, which took place at the 6th European Conference on Service-Oriented and Cloud Computing, ESOC 2017, held in Oslo, Norway, September 2017: First International Workshop on Business Process Management in the Cloud, BPM@Cloud 2017; Third International Workshop on Cloud Adoption and Migration, CloudWays 2017. The 9 full papers were carefully

reviewed and selected from 12 submissions. In addition, the volume also contains 8 EU Projects papers, describing projects presented at the European Projects Forum, which took place at ESOC 2017. The papers focus on specific topics in service-oriented and cloud computing domains such as limits and/or advantages of existing cloud solutions, future internet technologies, efficient and adaptive deployment and management of service-based applications across multiple clouds, novel cloud service migration practices and solutions, digitization of enterprises in the cloud computing era, federated cloud networking services.

Service-Oriented Computing: Agents, Semantics, and Engineering Jul 02 2021 This book constitutes the refereed proceedings of the International Workshop on Service-Oriented Computing: Agents, Semantics, and Engineering, SOCASE 2008, held in Estoril, Portugal, as an associated event of AAMAS 2008, the main international conference on autonomous agents and multi-agent systems. The 11 revised full papers presented were carefully reviewed and selected for inclusion in the book. The papers address a range of topics at the intersection of service-oriented computing, semantic technology, and intelligent multiagent systems, such as: service description and discovery; planning, composition and negotiation; semantic processes and service agents; and applications.

Service-oriented Design of Environmental Information Systems Oct 05 2021 Service-orientation

has an increasing impact upon the design process and the architecture of environmental information systems. This thesis specifies the SERVUS design methodology for geospatial applications based upon standards of the Open Geospatial Consortium. SERVUS guides the system architect to rephrase use case requirements as a network of semantically-annotated requested resources and to iteratively match them with offered resources that mirror the capabilities of existing services.

Proceedings of the 23rd International Conference on Industrial Engineering and Engineering Management 2016 Mar 18 2020 International Conference on Industrial Engineering and Engineering Management is sponsored by Chinese Industrial Engineering Institution, CMES, which is the unique national-level academic society of Industrial Engineering. The conference is held annually as the major event in this area. Being the largest and the most authoritative international academic conference held in China, it supplies an academic platform for the experts and the entrepreneurs in International Industrial Engineering and Management area to exchange their research results. Many experts in various fields from China and foreign countries gather together in the conference to review, exchange, summarize and promote their achievements in Industrial Engineering and Engineering Management fields. Some experts pay special attention to the current situation of the related

techniques application in China as well as their future prospect, such as Industry 4.0, Green Product Design, Quality Control and Management, Supply Chain and logistics Management to cater for the purpose of low-carbon, energy-saving and emission-reduction and so on. They also come up with their assumption and outlook about the related techniques' development. The proceedings will offer theatrical methods and technique application cases for experts from college and university, research institution and enterprises who are engaged in theoretical research of Industrial Engineering and Engineering Management and its technique's application in China. As all the papers are feathered by higher level of academic and application value, they also provide research data for foreign scholars who occupy themselves in investigating the enterprises and engineering management of Chinese style.

Service-Oriented and Cloud Computing Oct 17 2022

This book constitutes the refereed proceedings of the 5th European Conference on Service-Oriented and Cloud Computing, ES OCC 2016, held in Vienna, Austria, in September 2016. The 16 full papers presented were carefully reviewed and selected from 33 submissions. The papers are organized in topical sections on policies and performance, adaptation, SLA-aware services, job placement, compositionality, and fault tolerance.

Software Engineering for Self-Adaptive Systems

Feb 15 2020 The carefully reviewed papers in this state-of-the-art survey describe a wide range of approaches coming from different strands of software engineering, and look forward to future challenges facing this ever-resurgent and exacting field of research.

Environment Modeling-Based Requirements

Engineering for Software Intensive Systems Dec 15

2019 Environment Modeling-Based Requirements

Engineering for Software Intensive Systems provides a new and promising approach for engineering the requirements of software-intensive systems, presenting a systematic, promising approach to identifying, clarifying, modeling, deriving, and validating the requirements of software-intensive systems from well-modeled environment simulations. In addition, the book presents a new view of software capability, i.e. the effect-based software capability in terms of environment modeling. Provides novel and systematic methodologies for engineering the requirements of software-intensive systems Describes ontologies and easily-understandable notations for modeling software-intensive systems Analyzes the functional and non-functional requirements based on the properties of the software surroundings Provides an essential, practical guide and formalization tools for the task of identifying the requirements of software-intensive systems Gives system analysts and requirements engineers insight into how to recognize and structure the problems of

developing software-intensive systems

Movement-Aware Applications for Sustainable Mobility: Technologies and Approaches Oct 13 2019

"This book will provide insight on the issues and repercussions of collecting and analysing the movement of people using techniques such as privacy preserving data mining, ontologies, space-time modeling and visualization"--
Provided by publisher.

Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications Jun 13 2022

Addresses the need for peer-to-peer computing and grid paradigms in delivering efficient service-oriented computing.

Service-Oriented Crowdsourcing May 12 2022 At a fundamental level, service-oriented crowdsourcing applies the principles of service-oriented architecture (SOA) to the discovery, composition and selection of a scalable human workforce. **Service-Oriented Crowdsourcing: Architecture, Protocols and Algorithms** provides both an analysis of contemporary crowdsourcing systems, such as Amazon Mechanical Turk, and a statistical description of task-based marketplaces. The book also introduces a novel mixed service-oriented computing paradigm by providing an architectural description of the Human-Provided Services (HPS) framework and the application of social principles to human coordination and delegation actions. Finally, it examines previously investigated concepts and applies them to business process

management integration, including the extension of XML-based industry standards and the instantiation of flexible processes in crowdsourcing environments. Service-Oriented Crowdsourcing is intended for researchers and other academics as an in-depth guide to developing new applications based on crowdsourcing platforms and evaluating various selection and ranking algorithms. Practitioners and other industry professionals will also find this book invaluable.

Agent-Based Service-Oriented Computing Aug 15 2022

Service-Oriented Computing (SOC) allows software development time to be shortened by the composition of existing services across the Internet. Further exploitation of this revolutionary trend is feasible through automation, thanks to the use of software agents and techniques from distributed artificial intelligence. This book provides an overview of the related technologies and insight into state-of-the art research results in the field. The topics discussed cover the various stages in the life cycle of service-oriented software development using agent technologies to automate the development process and to manage services in a dynamic environment. The book presents both academic research results and the latest developments from industry. Researchers from academia and industry, as well as postgraduates, will find this cutting-edge volume indispensable in order to gain understanding of the issues associated with agent-

based service-oriented computing along with recent, and likely future technology trends.

Service-Oriented Computing: Agents, Semantics, and Engineering Mar 10 2022 This book constitutes the refereed proceedings of the International Workshop on Service-Oriented Computing: Agents, Semantics, and Engineering, SOCASE 2007, held in Honolulu, HI, USA as an associated event of AAMAS 2007. The volume is rounded off with selected four best papers from the Service-Oriented Computing and Agent-based Engineering Workshop, SOCABE 2006, held at AAMAS 2006.

Service-Oriented Modeling Nov 25 2020 Answers to your most pressing SOA development questions How do we start with service modeling? How do we analyze services for better reusability? Who should be involved? How do we create the best architecture model for our organization? This must-read for all enterprise leaders gives you all the answers and tools needed to develop a sound service-oriented architecture in your organization. Praise for Service-Oriented Modeling Service Analysis, Design, and Architecture "Michael Bell has done it again with a book that will be remembered as a key facilitator of the global shift to Service-Oriented Architecture. . . . With this book, Michael Bell provides that foundation and more-an essential bible for the next generation of enterprise IT." -Eric Pulier, Executive Chairman, SOA Software "Michael Bell's insightful book provides

common language and techniques for business and technology organizations to take advantage of the SOA paradigm. By focusing modeling techniques on the business problem, Bell provides a way for professionals to work throughout the life cycle to create reusable and enduring services." -Mike Zbranek, CIO, Chase Card Services "This book will become an imperative business and technology service-oriented modeling recipe for any manager, architect, modeler, analyst, and developer in today's software development industry." -Jeff Schneider, CEO, MomentumSI "'Innovative' and 'groundbreaking' are words that best describe Michael Bell's Service-Oriented Modeling. It depicts a true service modeling approach that elegantly closes a clear and critical service modeling gap in the SOA industry. This holistic book ties these concepts together using real-world examples across a service life cycle that transitions services from ideas and concepts into production assets that deliver business value. A must-read for business and technical SOA practitioners." -Eric A. Marks, CEO, AgilePath Corporation "As hot as SOA is today, many business and technology professionals still find it challenging to mind the gap between their disparate methodologies and objectives. Herein Michael Bell speaks clearly to both camps in straightforward language, outlining disciplines each can use to communicate effectively and advance the realization of corporate aims. This book is a bible for all who seek to drive

business/technology into the future." -Mark Edward Goodrich, Director, Investing Product Management, Reuters Media "This book takes senior IT architects and systems designers into the depths of modeling for SOA, with a fresh new perspective on tools, terminology, and how to turn the theory into practice. His full life-cycle approach balances process, control, and accountability to align all the participants in the delivery pipeline-clearing the road for successful SOA business solutions." -Phil Gilligan, Chief Technology Officer, EBS

Service-Oriented Computing Nov 06 2021 This book constitutes the conference proceedings of the 10th International Conference on Service-Oriented Computing, ICSOC 2012, held in Shanghai, China in November 2012. The 32 full papers and 21 short papers presented were carefully reviewed and selected from 185 submissions. The papers are organized in topical sections on service engineering, service management, cloud, service QoS, service security, privacy and personalization, service applications in business and society, service composition and choreography, service scaling and cloud, process management, service description and discovery, service security, privacy and personalization, applications, as well as cloud computing.

Service-oriented Software System Engineering Jan 28 2021 Current IT developments like competent-based development and Web services have emerged as new

effective ways of building complex enterprise systems and providing enterprise allocation integration.

However, there is still much that needs to be researched before service-oriented software engineering (SOSE) becomes a prominent source for enterprise system development. *Service-Oriented Software System Engineering: Challenges and Practices* provides a comprehensive view of SOSE through a number of different perspectives.

Service-Oriented Computing Nov 18 2022 This book constitutes the revised selected papers of the 16th Symposium and Summer School on Service-Oriented Computing, SummerSOC 2022, held in Hersonissos, Crete, Greece, in July 2022. The 8 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 25 submissions. They were organized in topical sections as follows: Advanced Application Architecture; Data Science and Applications; and Quantum Computing.

Secure Architecture for Web Service Discovery and Retrieval Sep 23 2020 Web service discovery is a key component in service oriented computing. Service oriented architecture follow the find bind execute paradigm in which service providers register their services in public or private registries which clients use to locate web services. With an increasing number of web services providing similar functionalities, security has become one of the most critical issues. Because search engines are now a major player in finding

service access points through Web Services Description Language. Service discovery standards, such as UDDI, have focused primarily on simple keyword-based search methods for service retrieval. When searching for relevant services, clients aren't interested solely in keyword matching (example, a service or operation name) but, more importantly, the degree to which services can deliver the required functionality. Let clients look for services that meet their requirements, focusing primarily on the overall functionality and security of web service. Here, we regulate security requirements and introduced a technique for negotiating a mutually acceptable security policy based on WSDL and to automate web services based on security factor using agents.

Service-Oriented Computing - ICSOC 2007 Jul 14 2022

This book constitutes the refereed proceedings of the Fifth International Conference on Service-Oriented Computing, ICSOC 2007. The 30 revised full papers and 14 short papers are organized in topical sections on service deployment, business process design, service discovery, quality of service support, testing and validation, service assembly, service properties, service modeling, SOA

composition/experience/runtime/governance and QoS and composite service support.

Mobile Information Systems Jun 20 2020 Mobility is perhaps the most important market and technological trend within information and communication

technology. With the advent of new mobile infrastructures providing higher bandwidth and constant connection to the network from virtually everywhere, the way people use information resources is predicted to be radically transformed. Over the last years, a new breed of information systems, referred to as mCommerce systems or mobile information systems, has appeared to address this emerging situation. In 2000, the IFIP 8.1 WG decided to look into establishing a task group to look closer at this area, and the idea was adopted and extended by IFIP TC8 the following year. After the arrangement of several workshop, this task group has been the driving force behind the arrangement of MOBIS (IFIP TC 8 Working Conference on Mobile Information systems) held in Oslo, Norway, 15-17 September 2004. The objective of the working conference was to provide a forum for researchers and practitioners interested in planning, analysis, design, construction, modification, implementation, utilization, evaluation, and management of mobile information systems to meet, and exchange research ideas and results. Specifically, we tried to use the working conference to

- Clarify differences and similarities between the development of mobile vs. more traditional information systems
- Investigate organizational impact of mobile information systems
- Investigate mobile commerce applications combined with the advantages of mobile communications technologies
- Evaluate existing and newly

developed approaches for analysis, design, implementation, and evolution of mobile information systems.

Advances in Computing and Communications, Part II

Apr 18 2020 This volume is the second part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 72 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on database and information systems; distributed software development; human computer interaction and interface; ICT; internet and Web computing; mobile computing; multi agent systems; multimedia and video systems; parallel and distributed algorithms; security, trust and privacy.

Semantic Enterprise Application Integration for Business Processes: Service-Oriented Frameworks

Sep 16 2022 "This book provides methods that allow for access to corporate and customer data independent of where it resides"--Provided by publisher.

Enterprise Service Oriented Architectures Sep 04 2021

Conventional wisdom of the "software stack" approach to building applications may no longer be relevant. Enterprises are pursuing new ways of organizing systems and processes to become service oriented and event-driven. Leveraging existing infrastructural

investments is a critical aspect to the success of companies both large and small. Enterprises have to adapt their systems to support frequent technological changes, mergers and acquisitions. Furthermore, in a growing global market, these systems are being called upon to be used by external business partners.

Technology is often difficult, costly and complex and without modern approaches can prevent the enterprise from becoming agile. Enterprise Service Oriented Architectures helps readers solve this challenge in making different applications communicate in a loosely coupled manner. This classic handbook leverages the experiences of thought leaders functioning in multiple industry verticals and provides a wealth of knowledge for creating the agile enterprise. In this book, you will learn:

- How to balance the delivery of immediate business value while creating long-term strategic capability
- Fundamental principles of a service-oriented architecture (find, bind and execute)
- The four aspects of SOA (Production, Consumption, Management and Provisioning)
- How to recognize critical success factors to implementing enterprise SOAs
- Architectural importance of service registries, interfaces and contracts
- Why improper service decomposition can hurt you later rather than sooner
- How application design and integration practices change as architects seek to implement the "agile" enterprise

About the Authors James McGovern is an enterprise architect for The Hartford. He is an industry

thought leader and co-author of the bestselling book: A Practical Guide to Enterprise Architecture. Oliver Sims is a recognized leader in the architecture, design and implementation of service-oriented and component-based enterprise systems. He was a founding member of the OMG Architecture Board. He was co-author of the groundbreaking book: Business Component Factory. Ashish Jain is a Principal Architect with Ping Identity Corporation, a leading provider of solutions for identity federation. Prior to joining Ping Identity, he worked with BEA Systems where his role was to assist BEA customers in designing and implementing their e-business strategies using solutions based on J2EE. He holds several industry certifications from SUN and BEA and is also a board member for the Denver BEA User group. Mark Little is Director of Standards and SOA Manager for JBoss Inc. Prior to this, he was Chief Architect for Arjuna Technologies Ltd and a Distinguished Engineer at Hewlett-Packard. As well as being an active member of the OMG, JCP, OASIS and W3C, he is an author on many SOA and Web Services standards. He also led the development of the world's first standards-compliant Web Services Transaction product.

Service-Oriented Computing. ICSOC/ServiceWave 2009 Workshops Jan 08 2022 This book constitutes the refereed proceedings of the International Workshops on Service-Oriented Computing, ICSOC/ServiceWave 2009, held in Stockholm,

Sweden, in November 2009. The book includes papers of workshops on trends in enterprise architecture research (TEAR 2009), SOA, globalization, people, and work (SG-PAW), service oriented computing in logistics (SOC-LOG), non-functional properties and service level agreements management in service oriented computing (NFPSLAM-SOC 09), service monitoring, adaptation and beyond (MONA+), engineering service-oriented applications (WESOA09), and user-generated services (UGS2009). The papers are organized in topical sections on business models and architecture; service quality and service level agreements track; and service engineering track.

Service-Oriented Computing Mar 30 2021 This book constitutes the joint post-proceedings of four topical workshops held as satellite meetings of the 8th International Conference on service-oriented computing, ICSOC 2010, held in San Francisco, CA, USA in December 2010. The 23 revised papers presented together with four introductory descriptions are organized in topical sections corresponding to the individual workshops: performance assessment and auditing in service computing (PAASC 2010), engineering service-oriented applications (WESOA 2010), services, energy and ecosystems (SEE 2010), and service-oriented computing in logistics (SOC-LOG 2010)

Towards a Service-Based Internet Aug 23 2020 This volume constitutes the refereed proceedings of the

Fourth European Conference, ServiceWave 2011, held in Poznan, Poland, in October 2011. The 25 revised full papers presented together with 3 invited presentations were carefully reviewed and selected from numerous submissions. They are organized in topical sections on cloud computing, security, privacy and trust, service engineering fundamentals, business services, and FI-PPP. In addition to the scientific track, 14 extended abstracts of demonstrations covering a wide spectrum of technology and application domains were accepted.

Towards a Service-Based Internet. ServiceWave 2010 Workshops Dec 27 2020 This book constitutes the refereed proceedings of four workshops held in conjunction with the Third European Conference, ServiceWave 2010, held in Ghent, Belgium, in December 2010. The book includes 23 reviewed papers from four workshops that were selected from eight high-quality workshop session proposals. They represent diverse aspects of the theory and practice of service computing, ranging from service engineering to service infrastructures. The workshops are: First Workshop on Optimising Cloud Services (OCS 2010), International Workshop on Emergency Management through Service-Oriented Architectures (EMSOA 2010), First International Workshop on Service Modelling and Representation Techniques (SMART 2010), and From Event-Driven Business Process Management to Ubiquitous Complex Event Processing (EDBPM 2010).
Handbook of Research on Service-Oriented Systems

and Non-Functional Properties: Future Directions Feb 26 2021 Services and service oriented computing have emerged and matured over the last decade, bringing with them a number of available services that are selected by users and developers and composed into larger applications. The Handbook of Research on Non-Functional Properties for Service-Oriented Systems: Future Directions unites different approaches and methods used to describe, map, and use non-functional properties and service level agreements. This handbook, which will be useful for both industry and academia, provides an overview of existing research and also sets clear directions for future work.

Web Services Discovery with Non-functional Attributes in Service-oriented Architecture Aug 03 2021

SOA Modeling Patterns for Service-Oriented Discovery and Analysis Feb 21 2023 Learn the essential tools for developing a sound service-oriented architecture SOA Modeling Patterns for Service-Oriented Discovery and Analysis introduces a universal, easy-to-use, and nimble SOA modeling language to facilitate the service identification and examination life cycle stage. This business and technological vocabulary will benefit your service development endeavors and foster organizational software asset reuse and consolidation, and reduction of expenditure. Whether you are a developer, business architect, technical architect, modeler, business

analyst, team leader, or manager, this essential guide-introducing an elaborate set of more than 100 patterns and anti-patterns-will help you successfully discover and analyze services, and model a superior solution for your project. Explores how to discover services Explains how to analyze services for construction and production How to assess service feasibility for deployment How to employ the SOA modeling language during the service identification and examination process How to utilize the SOA modeling patterns and anti-patterns for service discovery and analysis Focusing on the Service-Oriented Discovery and Analysis Life Cycle Stage, this book will help you acquire a broad SOA Modeling knowledge base and leverage that to increase efficiency and productivity in the workplace.

Service-Oriented Architecture Apr 30 2021 Praise for Service-Oriented Architecture "This book provides a superb overview of the SOA topic. Marks and Bell provide practical guidance across the entire SOA life cycle-from business imperatives and motivations to the post-deployment business and technical metrics to consider. With this book, Marks and Bell demonstrate a unique ability to take the complex dynamics of SOA, and through an eloquent set of metaphors, models, and principles, provide an understandable and insightful how-to manual for both technical and business executives. This will become a required handbook for any organization implementing SOA." —Dan Bertrand,

Enterprise Technology Officer & EDS Fellow, EDS Corporation "A fundamental breakthrough in the business and technology perspectives of SOA-this book belongs in every software developer, architect, and IT executive library. Marks and Bell demonstrate a creative and practical approach to building complex, service-oriented systems. I especially liked the hands-on perspective brought to multiple aspects of SOA. A must-have guide in the technology turbulence of the future." —Ariel Aloni, Chief Technology Officer, SunGard Data Management Solutions "This outstanding text gets straight to the heart of the matter, cutting through the hyperbole and discussing how to drive real business value through SOA. It will certainly impact my behavior, our governance models, and, subsequently, the successful business outcomes we derive as we continue to embrace SOA. A must-read for battle-scarred SOA veterans and fledgling architects alike." —Christopher Crowhurst, Vice President and Chief Architect, Thomson Learning "Too often, SOA has been perceived as 'all about the technology'-standards, technology stacks, operational monitoring, and the like. In this book, Marks and Bell expand beyond the technology to provide a refreshing business-driven perspective to SOA, connecting the dots between business requirements, architecture, and development and operations, and overlaying these perspectives with tried-and-true governance techniques to keep SOA initiatives on track. A must-read for those

leading the charge to adopt SOA within their enterprise." —Brent Carlson, Chief Technology Officer, LogicLibrary and coauthor of San Francisco Design Patterns: Blueprints for Business Software "Marks and Bell have captured a wealth of practical experience and lessons learned in what has become the hottest topic in software development. In this book, they explain in detail what works and what does not, from procedural issues to technical challenges. This book is an invaluable reference for organizations seeking the benefits of SOAs." —Dr. Jeffrey S. Poulin, System Architect, Lockheed Martin and author of Measuring Software Reuse: Principles, Practices, and Economic Models "One of the last things companies often consider when implementing a business solution such as SOA is the impact on people. Marks and Bell provide an in-depth look at 'what has to change' from a process standpoint to make any SOA implementation a success. A great read for those considering to embark on an enterprise SOA and looking for the right mix of people, process, and products." —Alan Himler, Vice President of Product Management and Marketing, LogicLibrary SOA is a complex topic and a complex organizational goal Service-Oriented Architecture: A Planning and Implementation Guide for Business and Technology shows you how to plan, implement, and achieve SOA value through its prescriptive approach, joining the business and strategic perspective to the technical and architectural perspective. Applicable to all

industries, technology platforms, and operating environments, this innovative book provides you with the essential strateg

P2P Networking and Applications Nov 13 2019 Peer-to-Peer (P2P) networks enable users to directly share digital content (such as audio, video, and text files) as well as real-time data (such as telephony traffic) with other users without depending on a central server. Although originally popularized by unlicensed online music services such as Napster, P2P networking has recently emerged as a viable multimillion dollar business model for the distribution of information, telecommunications, and social networking. Written at an accessible level for any reader familiar with fundamental Internet protocols, the book explains the conceptual operations and architecture underlying basic P2P systems using well-known commercial systems as models and also provides the means to improve upon these models with innovations that will better performance, security, and flexibility. Peer-to-Peer Networking and Applications is thus both a valuable starting point and an important reference to those practitioners employed by any of the 200 companies with approximately \$400 million invested in this new and lucrative technology. Uses well-known commercial P2P systems as models, thus demonstrating real-world applicability. Discusses how current research trends in wireless networking, high-def content, DRM, etc. will intersect with P2P, allowing

readers to account for future developments in their designs. Provides online access to the Overlay Weaver P2P emulator, an open-source tool that supports a number of peer-to-peer applications with which readers can practice.

Service-Oriented Computing – ICSOC 2005 Apr 11 2022 This book constitutes the refereed proceedings of the Third International Conference on Service-Oriented Computing, ICSOC 2005, held in Amsterdam, The Netherlands in December 2005. The 32 revised full papers and 14 short papers presented together with 8 industrial and demo papers were carefully reviewed and selected from over 200 submissions. The papers are organized in topical sections on vision papers, service specification and modelling, service design and validation, service selection and discovery, service composition and aggregation, service monitoring, service management, semantic Web and grid services, as well as security, exception handling, and SLAs.

Emerging Technologies in Data Mining and Information Security May 20 2020 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) held at the University of Engineering & Management, Kolkata, India, during July 2020. The book is organized in three volumes and includes high-quality research work by academicians and industrial experts in the field of computing and communication, including full-length

papers, research-in-progress papers, and case studies related to all the areas of data mining, machine learning, Internet of things (IoT), and information security.

Software Architecture Jan 16 2020 Welcome to the European Conference on Software Architecture (ECSA), which is the premier European software engineering conference. ECSA provides researchers and practitioners with a platform to present and discuss the most recent, innovative, and significant findings and experiences in the field of software architecture research and practice. The fourth edition of ECSA was built upon a history of a successful series of European workshops on software architecture held from 2004 through 2006 and a series of European software architecture conferences from 2007 through 2009. The last ECSA was merged with the 8th Working IEEE/IFIP Conference on Software Architecture (WICSA). Apart from the traditional technical program consisting of keynote talks, a main - search track, and a poster session, the scope of the ECSA 2010 was broadened to incorporate other tracks such as an industry track, doctoral symposium track, and a tool demonstration track. In addition, we also offered several workshops and tutorials on diverse topics related to software architecture. We received more than 100 submissions in the three main categories: full research and experience papers, emerging research papers, and research challenges papers. The conference attracted

papers (co-)authored by researchers, practitioners, and academics from 30 countries (Algeria, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Colombia, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Iceland, India, Ireland, Israel, Italy, The Netherlands, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Tunisia, United Kingdom, United States).

Service Oriented Computing Oct 25 2020 This book constitutes the refereed proceedings of the 9th International Conference on Service-Oriented Computing, ICSOC 2011, held in Paphos, Cyprus, in December 2011. The 54 revised papers presented were carefully reviewed and selected from 184 submissions. The papers are organized in topical sections on business process modeling, quality of service, formal methods, XaaS computing, service discovery, service security and trust, service runtime infrastructures and service applications.

A Model-Based Analysis of First-Generation Service Discovery Systems Jan 20 2023 Future commercial software systems will be based on distributed service oriented architectures in which applications are composed dynamically from remote components. A key part of service-oriented computing is the ability for clients to discover remote services that fulfill specific requirements. Since the mid-1990s, various commercial and public domain designs for service discovery systems have been proposed that

enable clients and services to rendezvous in a distributed system. The report characterizes such designs as first-generation service discovery systems, based on the belief that experience with these systems will lead to future, improved designs. Using three widely used service discovery systems as a basis, this publication first presents a high level overview of the operation of service discovery protocols. A detailed generic model of first-generation service discovery systems, written in UML, follows this. The UML model provides an in-depth analysis of the alternative service discovery designs available today, including the major functional components that comprise these designs, the behaviors of these components, and the information they exchange. The report verifies the generality of the model by mapping its component element to corresponding elements of existent and emerging service discovery systems. This report also identifies issues that designers should attempt to resolve in the next generation of service discovery systems. The analysis is then extended to provide designers of future service discovery systems with a means to evaluate designs. First, the report proposes a set of service goals that service discovery systems should strive to satisfy to ensure a desirable level of quality of service. These goals provide a basis to define metrics, for evaluation the behavior and measuring performance of system designs and implementations. Second, the report identifies potential performance

issues that may arise during operation of service discovery systems. Identifying performance issues can alert designers and implementers to the potential for unexpected behavior when service discovery technology is deployed at large scale. The report presents possible solutions to performance problems that extend well-known optimization algorithms for distributed systems and present new algorithms tailored to service discovery environments. The contributions in this report will help to improve the quality of the next generation of service discovery systems on which the service-oriented architectures of tomorrow appear likely to depend. Further, should an industry standards group choose to develop a unified specification for service discovery, the model should provide helpful input to the process.

Service Oriented Enterprises Feb 09 2022 Extending beyond the technical architecture to the very philosophy of how a business should operate, the Service Orientation approach establishes fluidity across boundaries to provide agility, transparency, and fundamental competitive advantage. Service Oriented Enterprises brings the concept of service orientation from the IT department to the boardroom, applying the precepts of service oriented technology to the underlying dynamics of how a business operates. Implementing a technological concept as a cultural paradigm, the SOE succeeds by combining the best features from virtual, extended, real-time, and resilient

enterprises to serve not just its customers, but also its trading partners, shareholders and employees. Building primarily on the success of the Internet and the automation of business policies and processes, the Service Oriented Enterprise (SOE) is defined by three essential layers: the enterprise performance layer, the business process management layer, and the underlying service oriented architecture. This book focuses primarily on layers two and three and how the fundamental dynamics of a business can be altered when these concepts are applied to both architecture and culture. Beginning with an overview of the emerging SOE culture, the text contrasts the new service-oriented methodologies with traditional waterfall and iterative methodologies. Emphasizing Web Service strategies for description, discovery, and deployment techniques, the author goes deeper into service-oriented concepts describing the business process management suite as the central core of the SOE, and introducing the Enterprise Service Bus as the backbone for integration. The text describe how modeling, executing, and continuously improving the business process and business policies lends to the development of a common language between business and IT. The book concludes by expanding on these concepts and delving into the societal and behavioral aspects of the Service Oriented Enterprise. The reality of business is no longer one where change is an unusual phenomenon; today change is the norm and

the capacity for consumer-sensitive, fluid transition is vital to business survival. Service Oriented Enterprises provides the key concepts to facilitate that change.

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