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Computing Handbook, Third Edition: Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current un-

derstanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

The Top-Selling, De Facto Guide to SOA--Now Updated with New

Content and Coverage of Microservices! For more than a decade, Thomas Erl's best-selling *Service-Oriented Architecture: Concepts, Technology, and Design* has been the definitive end-to-end tutorial on SOA, service-orientation, and service technologies. Now, Erl has thoroughly updated the industry's de facto guide to SOA to reflect new practices, technologies, and strategies that have emerged through hard-won experience and creative innovation. This Second Edition officially introduces microservices and micro task abstraction as part of service-oriented architecture and its associated service layers. Updated case study examples and illustrations further explain and position the microservice model alongside and in relation to more traditional types of services. Coverage includes:

- Easy-to-understand, plain English explanations of SOA and service-orientation fundamentals (as compiled from series titles)
- Microservices, micro task abstraction, and containerization
- Service delivery lifecycle and associated phases
- Analysis and conceptualization of services and microservices
- Service API design with REST services, web services, and microservices
- Modern service API and contract versioning techniques for web services and REST services
- Up-to-date appendices with service-orientation principles, REST constraints, and SOA patterns (including three new patterns)

Service-Oriented Architecture: Analysis and Design for Services and Microservices, Second Edition, will be indispensable to application architects, enterprise architects, software developers, and any IT professionals interested in learning about or responsible for designing or implementing modern-day, service-oriented solutions.

Chapter 1: Introduction Chapter 2: Case Study Backgrounds Part I: Fundamentals Chapter 3: Understanding Service-Orientation

Chapter 4: Understanding SOA Chapter 5: Understanding Layers with Services and Microservices Part II: Service-Oriented Analysis and Design Chapter 6: Analysis and Modeling with Web Services and Microservices Chapter 7: Analysis and Modeling with REST Services and Microservices Chapter 8: Service API and Contract Design with Web Services Chapter 9: Service API and Contract Design with REST Services and Microservices Chapter 10: Service API and Contract Versioning with Web Services and REST Services Part III: Appendices Appendix A: Service-Orientation Principles Reference Appendix B: REST Constraints Reference Appendix C: SOA Design Patterns Reference Appendix D: The Annotated SOA Manifesto

This book constitutes the revised selected papers of the scientific satellite events that were held in conjunction with the 16th International Conference on Service-Oriented Computing, ICSOC 2018, held in Hangzhou, China, in November 2018. The ICSOC 2018 workshop track consisted of six workshops on a wide range of topics that fall into the general area of service computing. A special focus this year was on Internet of Things, Data Analytics, and Smart Services: First International Workshop on Data-Driven Business Services (DDBS) First International Workshop on Networked Learning Systems for Secured IoT Services and Its Applications (NLS4IoT) 8th International Workshop on Context-Aware and IoT Services (CIoTS) Third International Workshop on Adaptive Service-oriented and Cloud Applications (ASOCA2018) Third International Workshop on IoT Systems for Context-aware Computing (ISyCC) First International Workshop on AI and Data Mining for Services (ADMS)

"This book provides a comprehensive assessment of the latest de-

velopments in the EIS revolution. including Enterprise Resource Planning (ERP) adoption, the integration of enterprise systems, personalized ERP, and the Semantic Web, and ideas and solutions for the future of the global enterprise"--Provided by publisher.

Applied SOA Patterns on the Oracle Platform is aimed at architects practicing SOA or traditional integration, and also at technical team leaders implementing Oracle Fusion under SCRUM or WF methodology.

"This book presents a closer look at the partnership between service oriented architecture and cloud computing environments while analyzing potential solutions to challenges related to the migration of legacy applications"--Provided by publisher.

The Ultimate Guide for Designing and Governing Web Service Contracts For Web services to succeed as part of SOA, they require balanced, effective technical contracts that enable services to be evolved and repeatedly reused for years to come. Now, a team of industry experts presents the first end-to-end guide to designing and governing Web service contracts. Writing for developers, architects, governance specialists, and other IT professionals, the authors cover the following areas: Understanding Web Service Contract Technologies Fundamental and Advanced WSDL Fundamental and Advanced XML Schema Fundamental and Advanced WS-Policy Fundamental Message Design with SOAP Advanced Message Design with WS-Addressing Advanced Message Design with MTOM, and SwA Versioning Techniques and Strategies Web Service Contracts and SOA

The International Council on Systems Engineering (INCOSE) defines Systems Engineering as an interdisciplinary approach and

means to enable the realization of successful systems. Researchers are using intelligence-based techniques to support the practices of systems engineering in an innovative way. This research volume includes a selection of contributions by subject experts to design better systems.

This book explains how to combine and exploit sensor networks and internet-of-things (IoT) technologies and Web-service design patterns to enrich and integrate Building Information Models (BIMs). It provides approaches and software architectures for facilitating the interaction with (and between) BIMs through Web services, and for enabling and facilitating the fusion of the information residing in such models or of information acquired from IoT technologies. The proposed software architectures are presented in the form of design patterns. This information fusion will facilitate many novel application fields ranging from emergency response, to urban monitoring and surveillance, and to smart buildings. The book consists of 8 chapters. The first 2 chapters focus on the basics of BIMs, while chapter 3 presents fundamental service-oriented architecture patterns for complex information models. Subsequently, chapters 4 and 5 elaborate on the hardware and software side of IoT, with a special focus on their use for BIMs. Chapter 6 provides advanced SOA patterns for BIMs, while chapter 7 details patterns for IoT, and for BIM and IoT information fusion. Lastly, chapter 8 summarizes the work and provides an outlook on promising future developments. Overall, the book will be beneficial for researchers and developers in the fields of building information models, IoT applications, and systems integration. This book focuses on software architecture and the value of archi-

ture in the development of long-lived, mission-critical, trustworthy software-systems. The author introduces and demonstrates the powerful strategy of “Managed Evolution,” along with the engineering best practice known as “Principle-based Architecting.” The book examines in detail architecture principles for e.g., Business Value, Changeability, Resilience, and Dependability. The author argues that the software development community has a strong responsibility to produce and operate useful, dependable, and trustworthy software. Software should at the same time provide business value and guarantee many quality-of-service properties, including security, safety, performance, and integrity. As Dr. Furrer states, “Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality-of-service properties of the software-systems.” The book presents extensive coverage of such concepts as: Principle-Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization/Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures, tables, examples and illustrative quotations. Future-Proof Software-Systems provides a set of good engineering practices, devised for integration into most software development processes dedicated to the creation of software-systems that incorporate Managed Evolution.

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 de-

sign 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.

The Definitive Guide to Building Web-Centric SOA with REST The World Wide Web is based on the most successful technology architecture in history. It has changed how we view, access, and exchange information and, with the advent of REST, it has also provided us with compelling ways to build and improve automation solutions. REST provides a great deal of guidance to ensure that an architecture and its automation logic are technically sound, though it is still your responsibility to build services that actually add value to your business. SOA with REST is the first comprehensive tutorial and reference for designing and building RESTful services as part of service-oriented solutions and in conjunction with service-oriented architecture (SOA). This book demonstrates that REST is not only a suitable medium for building truly service-oriented solutions, but also that the service-oriented architectural model is a necessary foundation for REST technology architectures to realize their full business potential. The authors provide thorough mapping of REST constraints and architectural goals with service-orientation principles and SOA characteristics. Using real-world examples, they show how to leverage REST’s simplicity, flexibility, and low overhead without compromising the power or manageability of service-oriented solutions and architectures. This ebook will be valuable to IT architects, de-

velopers, and any practitioner seeking to use SOA and REST together.

In this book, one hundred selected articles, in which the technology and science elite share, contribute to technology development, collaborate and evolve the latest cutting-edge technologies, open ecosystem resources, new innovative computing solutions, hands-on labs and tutorials, networking and community building, to ensure better integration of artificial intelligence into renewable energy systems. Innovation in computing continues at a growing pace. The key to success in this area is not only hardware, but also the ability to leverage rapid advances in artificial intelligence (including machine learning and deep learning), data analytics, data streaming, and cloud computing, which go hand in hand with intensive research activity on the underlying computational methods. The chapters in this book are organized into thematic sections on: advanced computing techniques; artificial intelligence; smart and sustainable cities; renewable energy systems; materials in renewable energy; smart energy efficiency; smart cities applications: recent developments and new trends; online, supervision of renewable energy platforms; predictive control in renewable systems; smart embedded systems for photovoltaic applications.

This book constitutes the refereed conference proceedings of the 12th International Conference on Service-Oriented Computing, IC-SOC 2014, held in Paris, France, in November 2014. The 25 full and 26 short papers presented were carefully reviewed and selected from 180 submissions. The papers are organized in topical sections on business process management; service composition

and discovery; service design, description and evolution; cloud and business service management; ensuring composition properties; quality of service; semantic web services; service management; cloud service management; business service management; trust; service design and description.

Current IT developments like component-based development and Web services have emerged as effective ways of building complex enterprise-scale information systems and providing enterprise application integration. To aid this process, platforms such as .NET and WebSphere have become standards in web-based systems development. However, there are still a lot of issues that need to be addressed before service-oriented software engineering (SOSE) becomes a prominent and widely accepted paradigm for enterprise information systems development and integration. This book provides a comprehensive view of SOSE through a number of different perspectives. Some of those perspectives include: service-based concepts, modeling and documentation, service discovery and composition, service-oriented architecture, model-driven development of service-oriented applications, service security and service-orientation in mobile settings. The book provides readers with an in-depth knowledge of the main challenges and practices in the exciting, new world of service-oriented software engineering. Addressing both technical and organizational aspects of this new field, it offers a balance making it valuable to a variety of readers, including IT architects, developers, managers, and analysts.

The Spring framework is a widely adopted enterprise and general Java framework. The release of Spring Framework 3.0 has added many improvements and new features for Spring development.

Written by Gary Mak, author of the bestseller *Spring Recipes*, and Josh Long, an expert Spring user and developer, *Spring Enterprise Recipes* is one of the first books on Spring 3.0. This key book focuses on Spring Framework 3.0, the latest version available, and a framework-related suite of tools, extensions, plug-ins, modules, and more—all of which you may want and need for building three-tier Java EE applications. Build Spring enterprise and Java EE applications from the ground up using recipes from this book as templates to get you started, fast. Employ Spring Integration, Spring Batch and jBPM with Spring to bring your application's architecture to the next level. Use Spring's remoting, and messaging support to distribute your application, or bring your application to the cloud with GridGain and Terracotta.

While business functions such as manufacturing, operations, and marketing often utilize various software applications, they tend to operate without the ability to interact with each other and exchange data. This provides a challenge to gain an enterprise-wide view of a business and to assist real-time decision making. *Service-Driven Approaches to Architecture and Enterprise Integration* addresses the issues of integrating assorted software applications and systems by using a service driven approach. Supporting the dynamics of business needs, this book highlights the tools, techniques, and governance aspects of design, and implements cost-effective enterprise integration solutions. It is a valuable source of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of extensible and agile software design.

The authoritative XML Schema reference and tutorial! Leverage

the full power of XML Schema! In-depth coverage of the approved W3C Recommendation Schema design—practical and thorough Transition help for experienced DTD developers Authoritative! By Priscilla Walmsley—a member of the W3C XML Schema Working Group To leverage the full power of XML, companies need shared vocabularies to base their documents and scripts upon. XML Schema makes it possible to create those shared vocabularies—and Definitive XML Schema is the authoritative guide to the standard! Written by Priscilla Walmsley, a member of the W3C working group that created XML Schema, this book explains the W3C Recommendation with unprecedented insight and clarity—and introduces practical techniques for writing schemas to support any B2B, Web service, or content processing application. Coverage includes: How XML Schema provides a rigorous, complete standard for modeling XML document structure, content, and datatypes Working with schemas: Schema composition, instance validation, documentation, namespaces, and more XML Schema building blocks: elements, attributes, and types Advanced techniques: type derivation, model groups, substitution groups, identity constraints, redefinition, and much more An in-depth primer on effective schema design, including naming, document structure, and extensibility considerations Transition guidance for experienced DTD developers Definitive XML Schema brings together expert guidance for schema design, superior approaches to schema development, and the most systematic XML Schema reference on the market. Whether you're a developer, architect, or content specialist, it's the only XML Schema resource you need! "XML Schema is an incredibly powerful—and complex—document schema language, with such new capabilities as strong typing, modularity, in-

heritance, and identity constraints. This book guides you through the complexity so you can confidently use that power for your own projects." –Charles F. Goldfarb

Provides information and examples on using Windows Communication Foundation to build service-oriented applications.

In today's modernized environment, a growing number of software companies are changing their traditional engineering approaches in response to the rapid development of computing technologies. As these businesses adopt modern software engineering practices, they face various challenges including the integration of current methodologies and contemporary design models and the refactoring of existing systems using advanced approaches. Applications and Approaches to Object-Oriented Software Design: Emerging Research and Opportunities is a pivotal reference source that provides vital research on the development of modern software practices that impact maintenance, design, and developer productivity. While highlighting topics such as augmented reality, distributed computing, and big data processing, this publication explores the current infrastructure of software systems as well as future advancements. This book is ideally designed for software engineers, IT specialists, data scientists, business professionals, developers, researchers, students, and academicians seeking current research on contemporary software engineering methods.

Web services provide systems with great flexibility and easier maintenance which result in better ways to communicate and distribute applications. There are good procedures in place for the design, development, and management of Web services; howev-

er, there are areas in which Web service adaptation is required. To preserve the loosely coupled approach of Web services, service adaptations should be implemented appropriately. Adaptive Web Services for Modular and Reusable Software Development: Tactics and Solutions includes current research on the area of Web service adaptation while embarking upon the different aspects related to Web services. This collection provides an overview of existing solutions for service adaption in different development scopes as well as covers a wide variety of challenges which emerge. It aims to keep industry professionals as well as academic researchers up to date with the latest research results.

"This book explores technical integration challenges with a focus on identifying a viable solution on how to enable rich, flexible, and responsive information links, in support of the changing business operations across organizations"--Provided by publisher.

Designed for query writers who have some knowledge of XML basics, but not necessarily advanced knowledge of XML-related technologies, this book is ideal as both a tutorial and a reference. You'll find background information for namespaces, schemas, built-in types, and regular expressions that are relevant to writing XML queries.

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.

As Service-Oriented Computing (SOC) gains a wider global acceptance, the need for understanding its life cycle becomes inevitable, not only for developers, but also for users. *Service Life Cycle Tools and Technologies: Methods, Trends and Advances* compiles the latest research on SOC life cycles, detailing methodologies and applications in this emerging field. The development of service-oriented applications not only depends on constructing service providers, but also composition and delivery. Service requesters, service providers, and developers, alike, will benefit from the views and models in a service life cycle. This volume offers research that has been conducted in both industry and academia to address issues in the SOC domain, including service discovery, service composition, and service management. It serves as a vital reference for those on either side of the service field.

This book constitutes the proceedings of the 4th International Conference on Network Security and Applications held in Chennai, India, in July 2011. The 63 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers address all technical and practical aspects of security and its applications for wired and wireless networks and are organized in topical sections on network security and applications, ad hoc, sensor and ubiquitous computing, as well as peer-to-peer networks and trust management.

In *SOA and Web Services Interface Design*, data architecture guru James Bean teaches you how to design web service interfaces that are capable of being extended to accommodate ever changing business needs and promote incorporation simplicity. The book first provides an overview of critical SOA principles, thereby

offering a basic conceptual summary. It then provides explicit, tactical, and real-world techniques for ensuring compliance with these principles. Using a focused, tutorial-based approach the book provides working syntactical examples - described by Web services standards such as XML, XML Schemas, WSDL and SOAP - that can be used to directly implement interface design procedures, thus allowing you immediately generate value from your efforts. In summary, *SOA and Web Services Interface Design* provides the basic theory, but also design techniques and very specific implementable encoded interface examples that can be immediately employed in your work, making it an invaluable practical guide to any practitioner in today's exploding Web-based service market. Provides chapters on topics of introductory WSDL syntax and XML Schema syntax, taking the reader through fundamental concepts and into deeper techniques and allowing them to quickly climb the learning curve. Provides working syntactical examples - described by Web services standards such as XML, XML Schemas, WSDL and SOAP - that can be used to directly implement interface design procedures. Real-world examples generated using the Altova XML Spy tooling reinforce applicability, allowing you to immediately generate value from their efforts. Weaving together theoretical, historical, and legal approaches, this book offers a fresh perspective on the modern revival of the concept of allegiance, identifying and contextualising its evolving association with theories of citizenship.

Cloud computing is the latest market-oriented computing paradigm which brings software design and development into a new era characterized by "XaaS", i.e. everything as a service.

Cloud workflows, as typical software applications in the cloud, are composed of a set of partially ordered cloud software services to achieve specific goals. However, due to the low QoS (quality of service) nature of the cloud environment, the design of workflow systems in the cloud becomes a challenging issue for the delivery of high quality cloud workflow applications. To address such an issue, this book presents a systematic investigation to the three critical aspects for the design of a cloud workflow system, viz. system architecture, system functionality and quality of service. Specifically, the system architecture for a cloud workflow system is designed based on the general four-layer cloud architecture, viz. application layer, platform layer, unified resources layer and fabric layer. The system functionality for a cloud workflow system is designed based on the general workflow reference model but with significant extensions to accommodate software services in the cloud. The support of QoS is critical for the quality of cloud workflow applications. This book presents a generic framework to facilitate a unified design and development process for software components that deliver lifecycle support for different QoS requirements. While the general QoS requirements for cloud workflow applications can have many dimensions, this book mainly focuses on three of the most important ones, viz. performance, reliability and security. In this book, the architecture, functionality and QoS management of our SwinDeW-C prototype cloud workflow system are demonstrated in detail as a case study to evaluate our generic design for cloud workflow systems. To conclude, this book offers a general overview of cloud workflow systems and provides comprehensive introductions to the design of the system architecture, system functionality and QoS manage-

ment.

The ultimate instructional guide to achieving success in the service sector Already responsible for employing the bulk of the U.S. workforce, service-providing industries continue to increase their economic dominance. Because of this fact, these companies are looking for talented new service systems engineers to take on strategic and operational challenges. This instructional guide supplies essential tools for career seekers in the service field, including techniques on how to apply scientific, engineering, and business management principles effectively to integrate technology into the workplace. This book provides: Broad-based concepts, skills, and capabilities in twelve categories, which form the "Three-Decker Leadership Architecture," including creative thinking and innovations in services, knowledge management, and globalization Materials supplemented and enhanced by a large number of case studies and examples Skills for successful service engineering and management to create strategic differentiation and operational excellence for service organizations Focused training on becoming a systems engineer, a critically needed position that, according to a 2009 Moneyline article on the best jobs in America, ranks at the top of the list Service Systems Management and Engineering is not only a valuable addition to a college classroom, but also an extremely handy reference for industry leaders looking to explore the possibilities presented by the expanding service economy, allowing them to better target strategies for greater achievement.

"Forewords by Martin Fowler and Ian Robinson"--From front cover.

"This book provides solutions to these challenges, practices and

understanding of contemporary theories and empirical analysis for systems engineering in a way that achieves service excellence"--Provided by publisher.

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 Handbook of Human Factors in Web Design covers basic human factors issues relating to screen design, input devices, and information organization and processing, as well as addresses newer features which will become prominent in the next generation of Web technologies. These include multimodal interfaces, wireless capabilities, and agents that can improve convenience and usability. Written by leading researchers and/or practitioners in the field, this volume reflects the varied backgrounds and interests of individuals involved in all aspects of human factors and Web design and includes chapters on a full range of topics. Divided into 12 sections, this book covers: historical backgrounds and overviews of Human Factors and Ergonomics (HFE) specific sub-fields of HFE issues involved in content preparation for the Web information search and interactive information agents designing for universal access and specific user populations the importance of incorporating usability evaluations in the design process task analysis, meaning analysis, and performance modeling specific Web applications in academic and industrial settings Web psychology and information security emerging technological developments and applications for the Web the costs and benefits of incorporating human factors for the Web and the state of current guidelines The Handbook of Human Factors in Web Design is intended for re-

searchers and practitioners concerned with all aspects of Web design. It could also be used as a text for advanced courses in computer science, industrial engineering, and psychology.

This book fills a gap between high-level overview texts that are often too general and low-level detail oriented technical handbooks that lose sight of the "big picture". This book discusses SOA from the low-level perspective of middleware, various XML-based technologies, and basic service design. It also examines broader implications of SOA, particularly where it intersects with business process management and process modeling. Concrete overviews will be provided of the methodologies in those fields, so that students will have a hands-on grasp of how they may be used in the context of SOA.

This volume contains the technical papers presented in the four high-quality workshops associated with the European Conference on Service-Oriented and Cloud Computing, ESOC 2014, held in Manchester, UK, in September 2014: 4th International Workshop on Adaptive Services for the Future Internet, WAS4FI 2014, 2nd International Workshop on Cloud for IoT, CLIoT 2014, 2nd International Workshop on Cloud Service Brokerage, CSB 2014, and Seamless Adaptive Multi-cloud Management of Service-based Applications, SeaCloudS Workshop. The 19 revised full papers and 3 short papers were carefully reviewed and selected from 39 submissions. They focus on specific topics in service-oriented and cloud computing domains as cloud computing, service buses, Web services, service-oriented architectures, event-driven architectures, enterprise architectures, business process management, software selection and adaptation.

This book constitutes revised selected papers from the Australasian Symposium on Service Research and Innovation, ASSRI 2018. The conference was held in two parts on September 6, 2018, in Sydney, Australia, and on December 14, 2018, in Wollongong, Australia. The 9 full and 2 short papers included in this volume were carefully reviewed and selected from a total of 26 submissions, covering a variety of topics related to service-oriented computing and service science. The book also includes 3 keynote papers.

The Spring framework is growing. It has always been about choice. Java EE focused on a few technologies, largely to the detriment of alternative, better solutions. When the Spring framework debuted, few would have agreed that Java EE represented the best-in-breed architectures of the day. Spring debuted to great fanfare, because it sought to simplify Java EE. Each release since marks the introduction of new features designed to both simplify and enable solutions. With version 2.0 and later, the Spring framework started targeting multiple platforms. The framework provided services on top of existing platforms, as always, but was decoupled from the underlying platform wherever possible. Java EE is still a major reference point, but it's not the only target. OSGi (a promising technology for modular architectures) has been a big part of the SpringSource strategy here. Additionally, the Spring framework runs on Google App Engine. With the introduction of annotation-centric frameworks and XML schemas, SpringSource has built frameworks that effectively model the domain of a specific problem, in effect creating domain-specific languages (DSLs). Frameworks built on top of the Spring framework have emerged supporting application integration, batch processing,

Flex and Flash integration, GWT, OSGi, and much more. The book is a collection of high-quality peer-reviewed research papers presented in the first International Conference on International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES -2015) held at Velammal Engineering College (VEC), Chennai, India during 22 - 23 April

2015. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academic and industry present their original work and exchange ideas, information, techniques and applications in the field of Communication, Computing and Power Technologies.