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Software Engineering for Agile Application Development - Pang, Chung-Yeung 2020-02-14 As the software industry continues to evolve, professionals are continually searching for practices that can assist with the various problems and challenges in information technology (IT). Agile development has become a popular method of research in recent years due to its focus on adapting to change. There are many factors that play into this process, so success is no guarantee. However, combining agile development with other software engineering practices could lead to a high rate of success in problems that arise during the

maintenance and development of computing technologies. Software Engineering for Agile Application Development is a collection of innovative research on the methods and implementation of adaptation practices in software development that improve the quality and performance of IT products. The presented materials combine theories from current empirical research results as well as practical experiences from real projects that provide insights into incorporating agile qualities into the architecture of the software so that the product adapts to changes and is easy to maintain. While highlighting topics including continuous integration, configuration management, and business modeling, this book is ideally designed for software engineers, software developers, engineers, project managers, IT specialists, data scientists, computer science professionals, researchers, students, and academics.

Networked Digital Technologies - Simon Fong 2011-06-27
This book constitutes the proceedings of the Third International Conference on Networked Digital Technologies, held in Macau, China, in July 2011. The 41 revised papers presented were carefully reviewed and selected from 127 submissions. The papers are organized in topical sections on information security, networks, information management, multimedia, human computer interaction and simulation, e-learning and e-government, Web services/semantics, user centric information system/intelligent computing, and data mining.

Handbook of Semantic Web Technologies - John Domingue 2011-06-19
After years of mostly theoretical research, Semantic Web Technologies are now reaching out into application areas like bioinformatics, eCommerce, eGovernment, or Social Webs. Applications like genomic ontologies, semantic web services, automated catalogue alignment, ontology matching, or blogs and social networks

are constantly increasing, often driven or at least backed up by companies like Google, Amazon, YouTube, Facebook, LinkedIn and others. The need to leverage the potential of combining information in a meaningful way in order to be able to benefit from the Web will create further demand for and interest in Semantic Web research. This movement, based on the growing maturity of related research results, necessitates a reliable reference source from which beginners to the field can draw a first basic knowledge of the main underlying technologies as well as state-of-the-art application areas. This handbook, put together by three leading authorities in the field, and supported by an advisory board of highly reputed researchers, fulfils exactly this need. It is the first dedicated reference work in this field, collecting contributions about both the technical foundations of the Semantic Web as well as their main usage in other scientific fields like life sciences, engineering, business, or education.

Business Process Management - Mathias Weske 2019-06-22
Business process management is usually treated from two different perspectives: business administration and computer science. While business administration professionals tend to consider information technology as a subordinate aspect in business process management for experts to handle, by contrast computer science professionals often consider business goals and organizational regulations as terms that do not deserve much thought but require the appropriate level of abstraction. Matthias Weske argues that all communities involved need to have a common understanding of the different aspects of business process management. To this end, he details the complete business process lifecycle from the modeling phase to process enactment and improvement, taking into account all different stakeholders involved. After starting with a presentation of general foundations and

abstraction models, he explains concepts like process orchestrations and choreographies, as well as process properties and data dependencies. Finally, he presents both traditional and advanced business process management architectures, covering, for example, workflow management systems, service-oriented architectures, and data-driven approaches. In addition, he shows how standards like WfMC, SOAP, WSDL, and BPEL fit into the picture. This textbook is ideally suited for classes on business process management, information systems architecture, and workflow management. This 3rd edition contains a new chapter on business decision modelling, covering the Decision Model and Notation (DMN) standard; the chapter on process choreographies has been streamlined, and numerous clarifications have been fetched throughout the book. The accompanying website www.bpm-book.com contains further information and additional teaching material.

Web Service Patterns - Paul B. Monday 2003-04-08
The author provides a short catalog of design patterns that are typically needed and explains why they are the right ones to use with Web services. Java is used in all examples.

Handbook of Software Solutions for ICME - Georg J. Schmitz 2016-10-31
As one of the results of an ambitious project, this handbook provides a well-structured directory of globally available software tools in the area of Integrated Computational Materials Engineering (ICME). The compilation covers models, software tools, and numerical methods allowing describing electronic, atomistic, and mesoscopic phenomena, which in their combination determine the microstructure and the properties of materials. It reaches out to simulations of component manufacture comprising primary shaping, forming, joining, coating, heat treatment, and machining processes. Models and tools addressing the in-service behavior like

fatigue, corrosion, and eventually recycling complete the compilation. An introductory overview is provided for each of these different modelling areas highlighting the relevant phenomena and also discussing the current state for the different simulation approaches. A must-have for researchers, application engineers, and simulation software providers seeking a holistic overview about the current state of the art in a huge variety of modelling topics. This handbook equally serves as a reference manual for academic and commercial software developers and providers, for industrial users of simulation software, and for decision makers seeking to optimize their production by simulations. In view of its sound introductions into the different fields of materials physics, materials chemistry, materials engineering and materials processing it also serves as a tutorial for students in the emerging discipline of ICME, which requires a broad view on things and at least a basic education in adjacent fields.

Securing Web Services: Practical Usage of Standards and Specifications - Periorellis, Panos 2007-10-31
"This book collects a complete set of studies addressing the security and dependability challenges of Web services and the development of protocols to meet them. Encompassing a complete range of topics including specifications for message level security, transactions, and identity management, it enables libraries to provide researchers an authoritative guide to a most challenging technological topic"--Provided by publisher.

Web Service Implementation and Composition Techniques - Hye-young Paik 2017-06-02
This book embarks on a mission to dissect, unravel and demystify the concepts of Web services, including their implementation and composition techniques. It provides a comprehensive perspective on the fundamentals of implementation standards and strategies for

Web services (in the first half of the book), while also presenting composition techniques for leveraging existing services to create larger ones (in the second half). Pursuing a unique approach, it begins with a sound overview of concepts, followed by a targeted technical discussion that is in turn linked to practical exercises for hands-on learning. For each chapter, practical exercises are available on Github. Mainly intended as a comprehensive textbook on the implementation and composition of Web services, it also offers a useful reference guide for academics and practitioners. Lecturers will find this book useful for a variety of courses, from undergraduate courses on the foundational technology of Web services through graduate courses on complex Web service composition. Students and researchers entering the field will benefit from the combination of a broad technical overview with practical self-guided exercises. Lastly, professionals will gain a well-informed grasp of how to synthesize the concepts of conventional and "newer" breeds of Web services, which they can use to revise foundational concepts or for practical implementation tasks.

Building REST APIs with Flask - Kunal Relan 2019-09-12

Develop RESTful web services using the Flask micro-framework and integrate them using MySQL. Use Flask to develop, deploy, and manage REST APIs with easy-to-read and understand Python code. Solve your problem from a choice of libraries. Learn to use MySQL as the web services database for your Flask API using SQLAlchemy ORM. Building REST APIs with Flask provides a primer on Flask, RESTful services, and working with pip to set up your virtual environment. The key differences between NoSQL and SQL are covered, and you are taught how to connect MySQL and Flask using SQLAlchemy. Author Kunal Relan presents best practices for creating REST APIs and guides you in structuring your app and testing

REST endpoints. He teaches you how to set up authentication and render HTML using views. You learn how to write unit tests for your REST APIs, and understand mocks, assertions, and integration testing. You will know how to document your REST APIs, deploy your Flask application on all of the major cloud platforms, and debug and monitor your Flask application. What You'll LearnUse MySQL to create Flask REST APIs Test REST endpoints Create CRUD endpoints with Flask and MySQL Deploy Flask on all of the major cloud platforms Monitor your Flask application Who This Book Is For Python developers interested in REST API development using Flask and web developers with basic programming knowledge who want to learn how Python and REST APIs work together. Readers should be familiar with Python (command line, or at least pip) and MySQL.

XML and Web Technologies for Data Sciences with R - Deborah Nolan 2013-11-29 Web technologies are increasingly relevant to scientists working with data, for both accessing data and creating rich dynamic and interactive displays. The XML and JSON data formats are widely used in Web services, regular Web pages and JavaScript code, and visualization formats such as SVG and KML for Google Earth and Google Maps. In addition, scientists use HTTP and other network protocols to scrape data from Web pages, access REST and SOAP Web Services, and interact with NoSQL databases and text search applications. This book provides a practical hands-on introduction to these technologies, including high-level functions the authors have developed for data scientists. It describes strategies and approaches for extracting data from HTML, XML, and JSON formats and how to programmatically access data from the Web. Along with these general skills, the authors illustrate several applications that are relevant to data scientists, such as reading and writing spreadsheet documents both locally and via Google Docs, creating

interactive and dynamic visualizations, displaying spatial-temporal displays with Google Earth, and generating code from descriptions of data structures to read and write data. These topics demonstrate the rich possibilities and opportunities to do new things with these modern technologies. The book contains many examples and case-studies that readers can use directly and adapt to their own work. The authors have focused on the integration of these technologies with the R statistical computing environment. However, the ideas and skills presented here are more general, and statisticians who use other computing environments will also find them relevant to their work. Deborah Nolan is Professor of Statistics at University of California, Berkeley. Duncan Temple Lang is Associate Professor of Statistics at University of California, Davis and has been a member of both the S and R development teams.

Handbook of Research on Architectural Trends in Service-Driven Computing - Ramanathan, Raja 2014-06-30

Research into the next generation of service architecture techniques has enabled the design, development, and implementation of dynamic, adaptive, and autonomic services to enable enterprises to efficiently align information technology with their agile business requirements and foster smart services and seamless enterprise integration. Handbook of Research on Architectural Trends in Service-Driven Computing explores, delineates, and discusses recent advances in architectural methodologies and development techniques in service-driven computing. This comprehensive publication is an inclusive reference source for organizations, researchers, students, enterprise and integration architects, practitioners, software developers, and software engineering professionals engaged in the research, development, and integration of the next generation of computing.

Software Engineering and Knowledge Engineering: Theory and Practice - Yanwen Wu 2012-01-16
The volume includes a set of selected papers extended and revised from the I2009 Pacific-Asia Conference on Knowledge Engineering and Software Engineering (KESE 2009) was held on December 19~ 20, 2009, Shenzhen, China. Volume 1 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of Computer and Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields. 140 high-quality papers are included in the volume. Each paper has been peer-reviewed by at least 2 program committee members and selected by the volume editor Prof. Yanwen Wu. On behalf of this volume, we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers. Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering.

Service-Oriented Computing - ICSOC 2008 Workshops - George Feuerlicht 2009-04-21
This book constitutes the thoroughly refereed papers presented at five international workshops held in conjunction with the 6th International Conference on Service-Oriented Computing, ICSOC 2008, in Sydney, Australia, in December 2008. The volume contains 41 reviewed and improved papers presented at the 4th International Workshop on Engineering Service-Oriented Applications (WESOA 2008), the Second International Workshop on Web APIs and Services Mashups (Mashups 2008), the First International Workshop on Quality-of-Service Concerns in Service Oriented Architectures (QoSCSOA 2008), the First Workshop on Enabling Service Business Ecosystems (ESBE 2008), and the Third International Workshop on Trends in Enterprise Architecture Research (TEAR 2008). The papers offer a wide range of

hot topics in service-oriented computing: management and analysis of SOA processes; development of mashups; QoS and trust models in service-oriented multi-agent systems; service ecosystems, service standardization, and evolutionary changes of Web services; governance aspects of SOA, enterprise models and architectures.

Security for Web Services and Service-Oriented Architectures - Elisa Bertino 2009-10-22 Web services technologies are advancing fast and being extensively deployed in many di?erent application environments. Web services based on the eXt- sible Markup Language (XML), the Simple Object Access Protocol (SOAP), andrelatedstandards,anddeployedinService-OrientedArchitectures(SOAs) are the key to Web-based interoperability for applications within and across organizations. Furthermore, they are making it possible to deploy appli- tions that can be directly used by people, and thus making the Web a rich and powerful social interaction medium. The term Web 2.0 has been coined to embrace all those new collaborative applications and to indicate a new, "social" approach to generating and distributing Web content, characterized by open communication, decentralization of authority, and freedom to share and reuse. For Web services technologies to hold their promise, it is crucial that - curity of services and their interactions with users be assured. Con?dentiality, integrity,availability,anddigitalidentitymanagementareallrequired.People need to be assured that their interactions with services over the Web are kept con?dential and the privacy of their personal information is preserved. People need to be sure that information they use for looking up and selecting s- vicesiscorrectanditsintegrityisassured.Peoplewantservicestobeavailable when needed. They also require interactions to be convenient and person- ized, in addition to being private. Addressing these requirements, especially when

dealing with open distributed applications, is a formidable challenge.

Web Services - Icws-Europe 2003 - Mario Jeckle 2014-01-15

Computational and Data Grids: Principles, Applications and Design - Preve, Nikolaos 2011-09-30
"This book provide relevant theoretical frameworks covering the latest empirical research findings in the area of grid computing, with a critical perspective bridging the gap between academia and the latest achievements of the computer industry"--Provided by publisher.

Formal Methods for Components and Objects - Frank S. de Boer 2004-11-08
Formal methods have been applied successfully to the verification of medium-sized programs in protocol and hardware design. However, their application to more complex systems, resulting from the object-oriented and the more recent component-based software engineering paradigms, requires further development of specification and verification techniques supporting the concepts of reusability and modifiability. This book presents revised tutorial lectures given by invited speakers at the Second International Symposium on Formal Methods for Components and Objects, FMCO 2003, held in Leiden, The Netherlands, in November 2003. The 17 revised lectures by leading researchers present a comprehensive account of the potential of formal methods applied to large and complex software systems such as component-based systems and object systems. The book makes a unique contribution to bridging the gap between theory and practice in software engineering.

Enterprise Information Systems: Concepts, Methodologies, Tools and Applications - Management Association, Information Resources 2010-09-30
This three-volume collection, titled Enterprise

Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems.

Web Services - Gustavo Alonso 2013-03-14 Like many other incipient technologies, Web services are still surrounded by a substantial level of noise. This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be. On the one hand, multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services. On the other hand, the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term. These factors make it extremely difficult to get a coherent picture of what Web services are, what they contribute, and where they will be applied. Alonso and his co-authors deliberately take a step back. Based on their academic and industrial experience with middleware and enterprise application integration systems, they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware, necessary to meet the challenges of the Web and of B2B application integration. Rather than providing a reference guide or a "how to write your first Web service" kind of book, they discuss the main objectives of Web services, the challenges that must be faced to achieve them, and the opportunities that this novel technology provides. Established, as well as recently proposed, standards and techniques (e.g.,

WSDL, UDDI, SOAP, WS-Coordination, WS-Transactions, and BPEL), are then examined in the context of this discussion in order to emphasize their scope, benefits, and shortcomings. Thus, the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies.

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.
XML and Web Technologies for Data Sciences with R - Deborah Nolan 2013-11-29
Web technologies are increasingly relevant to scientists working with data, for both accessing data and creating rich dynamic and interactive displays. The XML and JSON data formats are widely used in Web services, regular Web pages and JavaScript code, and visualization formats such as SVG and KML for Google Earth and Google Maps. In addition, scientists use HTTP and other network protocols to scrape data from Web pages, access REST and SOAP Web Services, and interact with NoSQL databases and text search applications. This book provides a practical hands-on introduction to these technologies, including high-level functions the authors have developed for data scientists. It describes strategies and approaches for extracting data from HTML, XML, and JSON formats and how to programmatically access data from the Web. Along with these general

skills, the authors illustrate several applications that are relevant to data scientists, such as reading and writing spreadsheet documents both locally and via Google Docs, creating interactive and dynamic visualizations, displaying spatial-temporal displays with Google Earth, and generating code from descriptions of data structures to read and write data. These topics demonstrate the rich possibilities and opportunities to do new things with these modern technologies. The book contains many examples and case-studies that readers can use directly and adapt to their own work. The authors have focused on the integration of these technologies with the R statistical computing environment. However, the ideas and skills presented here are more general, and statisticians who use other computing environments will also find them relevant to their work. Deborah Nolan is Professor of Statistics at University of California, Berkeley. Duncan Temple Lang is Associate Professor of Statistics at University of California, Davis and has been a member of both the S and R development teams.

Web Services - Gustavo Alonso 2003-09-04 Like many other incipient technologies, Web services are still surrounded by a substantial level of noise. This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be. On the one hand, multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services. On the other hand, the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term. These factors make it extremely difficult to get a coherent picture of what Web services are, what they contribute, and where they will be applied. Alonso and his co-authors deliberately take a step back. Based

on their academic and industrial experience with middleware and enterprise application integration systems, they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware, necessary to meet the challenges of the Web and of B2B application integration. Rather than providing a reference guide or a "how to write your first Web service" kind of book, they discuss the main objectives of Web services, the challenges that must be faced to achieve them, and the opportunities that this novel technology provides. Established, as well as recently proposed, standards and techniques (e.g., WSDL, UDDI, SOAP, WS-Coordination, WS-Transactions, and BPEL), are then examined in the context of this discussion in order to emphasize their scope, benefits, and shortcomings. Thus, the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies.

Web Services - Liang-Jie Zhang 2004-09-23 WelcometotheproceedingsofthE2004EuropeanConferenceonWebServices(ECOWS 2004).ECOWSisoneoftheleadinginternationalconferencesfocusingonWebservices. ECOWS2004wasaforumforresearchersandpractitionersfromacademiaandindustry to exchange information regarding advances in the state of the art and practice of Web services, identify emerging research topics, and de?ne the future directions of Web services computing. ECOWS 2004 had a special interest in papers that contribute to the convergence of Web services, Grid computing, e-business and autonomic computing, and papers that apply techniques from one area to another. This conference was called the International Conference on Web Services Europe in 2003. ECOWS 2004 was a sister event of the International Conference

onWeb Services 2004 (ICWS 2004), which attracted more than 250 registered participants in San Diego, USA. Web services are characterized by network-based application components and a service-oriented architecture using standard interface description languages and u- form communicationprotocols. Industrial applicationdomainsforWebservicesinclude business-to-business integration, business process integration and management, c- tent management, e-sourcing, composite Web services creation, design collaboration for computer engineering, multimedia communication, digital TV, and interactive Web solutions. Recently, Grid computing has also started to leverage Web services to de?ne standard interfaces for business Grid services and generic reusable Grid resources. The program of ECOWS 2004 featured a variety of papers on topics ranging from Web services and dynamic business process composition to Web services and process management,Web services discovery,Web services security,Web services-based app- cations for e-commerce, Web services-based Grid computing, and Web services solu- ons.

Architecting the Internet of Things - Dieter Uckelmann 2011-04-02
Many of the initial developments towards the Internet of Things have focused on the combination of Auto-ID and networked infrastructures in business-to-business logistics and product lifecycle applications. However, the Internet of Things is more than a business tool for managing business processes more efficiently and more effectively – it will also enable a more convenient way of life. Since the term Internet of Things first came to attention when the Auto-ID Center launched their initial vision for the EPC network for automatically identifying and tracing the flow of goods within supply-chains, increasing numbers of researchers and practitioners have further developed this vision. The authors in this book

provide a research perspective on current and future developments in the Internet of Things. The different chapters cover a broad range of topics from system design aspects and core architectural approaches to end-user participation, business perspectives and applications.

Guide to Web Application and Platform Architectures - Stefan Jablonski 2013-03-09 New concepts and technologies are being introduced continuously for application development in the World-Wide Web. Selecting the right implementation strategies and tools when building a Web application has become a tedious task, requiring in-depth knowledge and significant experience from both software developers and software managers. The mission of this book is to guide the reader through the opaque jungle of Web technologies. Based on their long industrial and academic experience, Stefan Jablonski and his coauthors provide a framework architecture for Web applications

which helps choose the best strategy for a given project. The authors classify common technologies and standards like .NET, CORBA, J2EE, DCOM, WSDL and many more with respect to platform, architectural layer, and application package, and guide the reader through a three-phase development process consisting of preparation, design, and technology selection steps. The whole approach is exemplified using a real-world case: the architectural design of an order-entry management system.

Mobile Service Computing - Shuiguang Deng 2020-06-23
This book introduces readers to the background and principles of mobile service computing. It discusses various aspects of service computing in mobile environments, including key methods and techniques for service selection, recommendation, composition, offloading, execution, deployment, and provision.
Geospatial Web Services: Advances in

Information Interoperability - Zhao, Peisheng 2010-12-31
As Web service technologies have matured in recent years, an increasing number of geospatial Web services designed to deal with spatial information over the network have emerged. Geospatial Web Services: Advances in Information Interoperability provides relevant theoretical frameworks and the latest empirical research findings and applications in the area. This book highlights the strategic role of geospatial Web services in a distributed heterogeneous environment and the life cycle of geospatial Web services for building interoperable geospatial applications.
From P2P and Grids to Services on the Web - Ian J. Taylor 2008-12-11
Covers a comprehensive range of P2P and Grid technologies. Provides a broad overview of the P2P field and how it relates to other technologies, such as Grid Computing, jini, Agent based computing, and web services.

RESTful Web Services - Leonard Richardson 2008-12-17
"Every developer working with the Web needs to read this book." -- David Heinemeier Hansson, creator of the Rails framework "RESTful Web Services finally provides a practical roadmap for constructing services that embrace the Web, instead of trying to route around it." -- Adam Trachtenberg, PHP author and EBay Web Services Evangelist You've built web sites that can be used by humans. But can you also build web sites that are usable by machines? That's where the future lies, and that's what RESTful Web Services shows you how to do. The World Wide Web is the most popular distributed application in history, and Web services and mashups have turned it into a powerful distributed computing platform. But today's web service technologies have lost sight of the simplicity that made the Web successful. They don't work like the Web, and they're missing out on its advantages. This book puts the "Web"

back into web services. It shows how you can connect to the programmable web with the technologies you already use every day. The key is REST, the architectural style that drives the Web. This book: Emphasizes the power of basic Web technologies -- the HTTP application protocol, the URI naming standard, and the XML markup language Introduces the Resource-Oriented Architecture (ROA), a common-sense set of rules for designing RESTful web services Shows how a RESTful design is simpler, more versatile, and more scalable than a design based on Remote Procedure Calls (RPC) Includes real-world examples of RESTful web services, like Amazon's Simple Storage Service and the Atom Publishing Protocol Discusses web service clients for popular programming languages Shows how to implement RESTful services in three popular frameworks -- Ruby on Rails, Restlet (for Java), and Django (for Python) Focuses on practical issues: how to design and implement RESTful web services and clients

This is the first book that applies the REST design philosophy to real web services. It sets down the best practices you need to make your design a success, and the techniques you need to turn your design into working code. You can harness the power of the Web for programmable applications: you just have to work with the Web instead of against it. This book shows you how.
Search Computing - Stefano Ceri 2010-03-15 Search computing, which has evolved from service computing, focuses on building the answers to complex search queries by interacting with a constellation of cooperating search services, using ranking and joining of results as the dominant factors for service composition. The field is multi-disciplinary in nature, and takes advantage of contributions from other research areas such as knowledge representation, human-computer interfaces, psychology, sociology, economics and legal sciences. The book is divided into three parts. The first part includes some visionary

contributions on the latest trends in search, which is becoming increasingly task-oriented and is starting to use ontological knowledge in order to manage complex queries. The second part explores background and related technologies, which can be considered as parallel fields of research, useful both for setting the theoretical premises for search computing and for providing a technological framework for building search computing systems and applications. The third part delves into the conceptual and technological problems and issues arising when dealing with search computing as a new search paradigm. It provides a unified view of the results of the Search Computing project as achieved exactly one year after its starting date.

Web Services Security Development and Architecture: Theoretical and Practical Issues - Gutiⓝrrez, Carlos A. 2010-01-31
"This book's main objective is to present some of the key approaches, research lines, and

challenges that exist in the field of security in SOA systems"--Provided by publisher.

Advanced Computing Applications, Databases and Networks - S.A Begum 2011-05-13 ADVANCED COMPUTING APPLICATIONS, DATABASES AND NETWORKS focuses on new developments and advances in three major areas of Computer Science. The first part presents some significant contributions and surveys major research areas of Advanced Computing Applications viz. Natural Language Processing, Medical Imaging, Soft Computing Methodologies and a wide variety of its application domains. The second part explains different approaches towards development of Unified Theoretical Model for Database Mining, Dimension Reduction of higher dimensional data and the applicability of Soft Computing Methodologies in Data Mining and Clustering. The third part provides the approaches taken to address the challenging problems in the areas of Wired and Wireless Networks. The chapters in this volume

are representative of recent research efforts and advances in the area of Advanced Computing Applications, Databases and Networks, covering both theoretical and application issues.

Software System Reliability and Security - Charles Antony Richard Hoare 2007 "Information security covers the protection of information against unauthorized disclosure, transfer, modification, and destruction, whether accidentally or intentionally. Quality of life in general and of individual citizens, and the effectiveness of the economy critically depends on our ability to build software in a transparent and efficient way. Furthermore, we must be able to enhance the software development process systematically in order to ensure software's safety and security. This, in turn, requires very high software reliability, i.e., an extremely high confidence in the ability of the software to perform flawlessly. Foundations of software technology provide models that enable us to capture application domains and their requirements, but also to understand the structure and working of software systems and software architectures. Based on these foundations tools allow to prove and ensure the correctness of software's functioning. New developments must pay due diligence to the importance of security-related aspects, and align current methods and techniques to information security, integrity, and system reliability. The articles in this book describe the state-of-the-art ideas on how to meet these challenges in software engineering."

The Learning Grid Handbook - S. Salerno 2008-03-03
Grid technologies are rising with the next generation of Internet by defining a powerful computing paradigm. Grid could be used as a technology 'glue' providing users with a uniform way to access resources by means of several devices. These technologies can provide a support for Technology Enhanced Learning (TEL) by enabling new learning environments

based on collaboration, real direct experience, personalization, ubiquity, accessibility and contextualization. Nevertheless, to be effectively used in TEL, Grid must be complemented with other elements like semantics and educational modelling; leading to the concept of 'Learning Grid' as defined in the homonymous Special Interest Group (SIG) of the European Network of Excellence 'Kaleidoscope: Shaping the Scientific Evolution of Technology Enhanced Learning'. The key challenge that Kaleidoscope is facing is the scientific and structural integration of the European TEL research. In this context, the Learning Grid SIG aims at contributing to the achievement of an improvement in TEL practices through the definition of open, distributed and pervasive environments for effective human learning taking into account that effective learning requires an active attitude of learners and that learning is a social and collaborative activity so requiring a technology that allows for active and realistic experiments, personalization,

knowledge creation and evolution, as well as autonomous and dynamic creation of communities. The first section of the book is about the concept of Learning Grid and related technologies. The second chapter analyses and compares existing languages for the dynamic composition of distributed learning resources and services in a Learning Grid.
Perspectives on Web Services - Olaf Zimmermann 2012-12-06
Contains everything that a project team needs to know about the development and deployment of Web services with the IBM WebSphere product family. Includes examples for all development artifacts in a format that can be reused in the reader's project. The text combines the authors' own practical experiences with consolidated information on the latest product capabilities in a unique approach that allows the book to be easily accessible to a broad spectrum of readers. Finding a balance between a euphoric/optimistic and down-to earth/realistic view on the subject,

this book should sit on every Web service developer's bookshelf.

Web Services Security and E-Business - Radhamani, G. 2006-10-31
Many techniques, algorithms, protocols and tools have been developed in the different aspects of cyber-security, namely, authentication, access control, availability, integrity, privacy, confidentiality and non-repudiation as they apply to both networks and systems. Web Services Security and E-Business focuses on architectures and protocols, while bringing together the understanding of security problems related to the protocols and applications of the Internet, and the contemporary solutions to these problems. Web Services Security and E-Business provides insight into uncovering the security risks of dynamically-created content, and how proper content management can greatly improve the overall security. It also studies the security lifecycle and how to respond to an attack, as well as the problems of site hijacking and phishing.

Non-Functional Properties in Service Oriented Architecture: Requirements, Models and Methods - Milanovic, Nikola 2011-03-31
"This book offers a selection of chapters that cover three important aspects related to the use of non-functional properties in SOA: requirements specification with respect to non-functional properties, modeling non-functional properties and implementation of non-functional properties"--Provided by publisher.
Emerging Web Services Technology - Cesare Pautasso 2007-07-20
This book contains a collection of selected and revised papers originally presented at the Workshop on Emerging Web Service Technology (WEWST) held in conjunction with the 4th European Conference on Web Services (ECOWS'06) in Zurich, Switzerland, December 2006. It details the latest innovations,

developments and results in Web Services research. In addition, the book records the evolution of important ideas emerging in the Web Services field.

An Introduction to Statistical Learning - Gareth James 2013-06-24
An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote The Elements of Statistical Learning (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra.
Semantic Technology - Wooju Kim 2014-05-20
This book constitutes the proceedings of the Third Joint International Semantic Technology Conference, JIST 2013, held in Seoul, South

Korea, in November 2013. The 32 papers, included four tutorials and 5 workshop papers, in this volume were carefully reviewed and selected from numerous submissions. The contributions are organized in topical sections on semantic Web services, multilingual issues, biomedical applications, ontology construction, semantic reasoning, semantic search and query, ontology mapping, and learning and discovery.