Enterprise Mda Soa Omg

Businesses must constantly adapt to a dynamically changing environment that requires choosing an adaptive and dynamic information architecture that has the flexibility to support both changes in the business environment and changes in technology. In general, information systems reengineering has the objective of extracting the contents, data structures, and flow of data and process contained within existing legacy systems in order to reconstitute them into a new form for subsequent implementation. Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions covers different techniques that could be used in industry in order to reengineer business processes and legacy systems into more flexible systems capable of supporting modern trends such as Enterprise Resource Planning (ERP), supply chain management systems and e-commerce. This reference book also covers other issues related to the reengineering of legacy systems, which include risk management and obsolescence management of requirements.

This Festschrift volume, published in honor of John Mylopoulos on the occasion of his retirement from the University of Toronto, contains 25 high-quality

papers, written by leading scientists in the field of conceptual modeling. The volume has been divided into six sections. The first section focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation. The four sections on software and requirements engineering, information systems, information integration, and web and services, represent the chief current application domains of conceptual modeling. Finally, the section on implementations concentrates on projects that build tools to support conceptual modeling. With its in-depth coverage of diverse topics, this book could be a useful companion to a course on conceptual modeling.

The task of structuring information on built environment has presented challenges to the research community, software developers and the industry for the last 20 years. Recent work has taken advantage of Web and industry standards such as XML, OWL, IFC and STEP. Another important technology for the fragmented AEC industry is digital communication. Wired or wireless, it brings together architects, engineers and construction site workers, enabling them to exchange information, communicate and work together. Virtual enterprise organization structures, involving mobile teams over distance, are highly compatible with the needs of the construction industry.

Within the framework of the Sixth I-ESA International Conference, supported by the INTEROP VLab (International Virtual Laboratory on Enterprise Interoperability, http://www.interop-vlab.eu), three workshops and a Doctoral Symposium have been organized in order to strengthen some key topics related to interoperability for enterprise applications and software. The workshops were selected to complement the conference topics, leaving more time to researchers for brainstorming and then coming up, at the end of the workshops, with new research directions for the future. The goal of the workshop "Standards – a Foundation for Interoperability" is to increase awareness and understanding of interoperability standards as a fundamental need. The workshop "Use of MDI/SOA Concepts in Industry" promotes the application of MDI (Model-Driven Interoperability) combined with SOA (Services Oriented Architecture) and the associated technology (BPM, Enterprise Modeling, ontology, mediation, model transformation, etc.) in industry. The workshop on "Dynamic Management across Interoperating Enterprises" investigates the need for enhancements to current business management systems and processes to address the needs of global trading across enterprises utilizing the new service-oriented Internet. Finally, the Doctoral Symposium has given the opportunity for students involved in the preparation

of their PhDs in this emerging area to present and discuss their research issues and ideas with senior researchers.

Architecture of Interoperable Information Systems

E-Government Strategies and Advancements

Interoperability for Agility, Resilience and Plasticity of Collaborations

Advances in Computing and Communications, Part I

Handbook of Research on Architectural Trends in Service-Driven Computing

First International Conference, ICSOFT 2006, Setúbal, Portugal, September 11-14, 2006, Revised Selected Papers

Uncovering Essential Software Artifacts through Business Process Archeology

The four-volume set LNCS 3991-3994 constitutes the refereed proceedings of the 6th International Conference on Computational Science, ICCS 2006, held in Reading, UK, in May 2006. The main conference and its 32 topical workshops attracted over 1400 submissions. The 98 revised full papers and 29 revised poster papers of the main track presented together with 500 accepted workshop papers were carefully reviewed and selected for inclusion in the four volumes. The papers span the whole range of computational science, with focus on the following major themes: tackling grand challenges problems; modelling and simulations of complex systems; scalable algorithms and tools and environments for computational science. Of particular interest were the

following major recent developments in novel methods and modelling of complex systems for diverse areas of science, scalable scientific algorithms, advanced software tools, computational grids, advanced numerical methods, and novel application areas where the above novel models, algorithms and tools can be efficiently applied such as physical systems, computational and systems biology, environmental systems, finance, and others. Learn to apply the significant promise of SOA to overcome the formidable challenges of distributed enterprise development.

Collaborative Networks for a Sustainable World Aiming to reach a sustainable world calls for a wider collaboration among multiple stakeholders from different origins, as the changes needed for sustainability exceed the capacity and capability of any individual actor. In recent years there has been a growing awareness both in the political sphere and in civil society including the bu- ness sectors, on the importance of sustainability. Therefore, this is an important and timely research issue, not only in terms of systems design but also as an effort to b- row and integrate contributions from different disciplines when designing and/or g- erning those systems. The discipline of collaborative networks especially, which has already emerged in many application sectors, shall play a key role in the implemen- tion of effective sustainability strategies. PRO-VE 2010 focused on sharing knowledge and experiences as well as identi- ing directions for further research and development in this area. The conference - dressed models, infrastructures, support tools, and governance principles developed for collaborative networks, as important resources

to support multi-stakeholder s- tainable developments. Furthermore, the challenges of this theme open new research directions for CNs. PRO-VE 2010 held in St.

Smart mobile systems, smart textiles, smart implants and sensor controlled medical devices are among the recent developments which have become important enablers for telemedicine and next-generation health services. Social media and gamification have added yet another dimension to Personalized Health (pHealth). This book presents the proceedings of pHealth 2015, the 12th International Conference on Wearable Micro and Nano Technologies for Personalized Health, held in Västerås, Sweden, in June 2015. The conference addressed mobile technologies, knowledge-driven applications and computer-assisted decision support, as well as apps designed to support the elderly and those with chronic conditions in their daily lives. The 23 conference papers, three keynotes and two specially invited contributions included here address the fundamental scientific and methodological challenges of adaptive, autonomous and intelligent pHealth approaches. Participants at this truly interdisciplinary conference included representatives from all relevant stakeholder communities, and the topics covered will be of interest to all those whose work involves improving the quality of medical services, optimizing industrial competitiveness and managing healthcare costs.

Process-Centric Architecture for Enterprise Software Systems

The Future of Product Development

Handbook of Research on E-Services in the Public Sector: E-Government Strategies and

Advancements
23rd International Conference, CAiSE 2011, London, UK, June 20-24, 2011, Proceedings
CSA 2011 & WCC 2011 Proceedings
Service-Oriented Computing. ICSOC/ServiceWave 2009 Workshops
E-Technologies: Transformation in a Connected World

In 2007 INTEROP-VLab defined Enterprise Interoperability as "the ability of an enterprise system or application to interact with others at a low cost with a flexible approach". Enterprise Interoperability VI brings together a peer reviewed selection of over 40 papers, ranging from academic research through case studies to industrial and administrative experience of interoperability. It shows how, in a scenario of globalised markets, the capacity to cooperate with other firms efficiently becomes essential in order to remain in the market in an economically, socially and environmentally cost-effective manner, and that the most innovative enterprises are beginning to redesign their business model to become interoperable. This goal of interoperability is vital, not only from the perspective of the individual enterprise but also in the new business structures that are now emerging, such as supply chains, virtual enterprises, interconnected organisations or extended enterprises, as well as in mergers and acquisitions. Establishing efficient and relevant

collaborative situations requires managing interoperability from a dynamic perspective: a relevant and efficient collaboration of organizations might require adaptation to remain in line with potentially changing objectives, evolving resources, and unexpected events, for example. Many of the papers contained in this, the seventh volume of Proceedings of the I-ESA Conferences have examples and illustrations calculated to deepen understanding and generate new ideas. The I-ESA'14 Conference is jointly organised by Ecole des Mines Albi-Carmaux, on behalf of PGSO, and the European Virtual Laboratory for Enterprise Interoperability (INTEROP-VLab) and supported by the International Federation for Information Processing (IFIP). A concise reference to the state of the art in systems interoperability, Enterprise Interoperability VI will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment.

As organizations, businesses, and other institutions work to move forward during a new era of ubiquitous modern technology, new computing and technology implementation strategies are necessary to harness the shared knowledge of individuals to advance their organizations as a whole. Intelligent and Knowledge-Based Computing for Business and Organizational Advancements examines the emerging

computing paradigm of Collective Intelligence (CI). The global contributions contained in this publication will prove to be essential to both researchers and practitioners in the computer and information science communities as these populations move toward a new period of fully technology-integrated business.

"This book focuses on providing readers a comprehensive understanding of the development cycle of enterprise service computing. Covered topics range from concept development, system design, modeling, and development technologies, to final deployment. Both theoretical research results and practical applications are provided"--Provided by publisher.

This volume presents the revised and peer reviewed contributions of the 'ERP Future 2013' conference held in Vienna/Austria on November 12-13th, 2013. The ERP Future 2013 Research conference is a scientific platform for research on enterprise information systems in general and specifically on core topics like business process management (BPM), business intelligence (BI) and enterprise resource planning (ERP) systems. Besides the scientific community the event also addresses businesses developing, implementing and intensively using enterprise information systems. To master the challenges of enterprise information systems comprehensively, the ERP Future 2013 Research conference accepted contributions with a business as well as an IT

focus to consider enterprise information systems from various viewpoints. This combination of business and IT aspects is a unique characteristic of the conference that resulted in several valuable contributions with high theoretical as well as practical impact.
Proceedings of the Workshops and the Doctorial Symposium of the I-ESA International Conference 2010
ERP, Supply Chain and E-Commerce Management Solutions
ERP Future 2013 Conference, Vienna, Austria, November 2013, Revised Papers
Enterprise Interoperability VI
Research and Practical Issues of Enterprise Information Systems
European Conference on Product and Process Modelling 2006 (ECPPM 2006), Valencia, Spain, 13-15 September 2006
Frameworks, Business Process Modeling, SOA, and Infrastructure Technology

Enterprise Interoperability is the ability of an enterprise or organisation to work with other enterprises or organisations without special effort. It is now recognised that interoperability of systems and thus sharing of information is not sufficient to ensure common understanding between enterprises. Knowledge of information meaning and understanding

of how is to be used must also be shared if decision makers distributed between those enterprises in the network want to act consistently and efficiently. Industry's need for Enterprise Interoperability has been one of the significant drivers for research into the Internet of the Future. EI research will embrace and extend contributions from the Internet of Things and the Internet of Services, and will go on to drive the future needs for Internets of People, Processes, and Knowledge.
Advanced approaches to software engineering and design are capable of solving complex computational problems and achieving standards of performance that were unheard of only decades ago. Handbook of Research on Emerging Advancements and Technologies in Software Engineering presents a comprehensive investigation of the most recent discoveries in software engineering research and practice, with studies in software design, development, implementation, testing, analysis, and evolution. Software designers, architects, and technologists, as well as students and educators, will find this book to be a vital and in-depth examination of the latest notable developments within the software engineering community.

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural

types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

It has been many decades, since Computer Science has been able to achieve tremendous recognition and has been applied in various fields, mainly computer programming and software engineering. Many efforts have been taken to improve knowledge of researchers, educationists and others in the field of computer science and engineering. This book provides a further insight in this direction. It provides innovative ideas in the field of computer science and engineering with a view to face new challenges of the current and future centuries. This book comprises of 25 chapters focusing on the basic and applied research in the field of computer science and information

technology. It increases knowledge in the topics such as web programming, logic programming, software debugging, real-time systems, statistical modeling, networking, program analysis, mathematical models and natural language processing.

Computer Science and Convergence

Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions

A Practical Guide for the Service-Oriented Architect

Collaborative Networks for a Sustainable World

First International Conference, ACC 2011, Kochi, India, July 22-24, 2011. Proceedings, Part I

An Enterprise Model-based Approach for Describing and Enacting Collaborative Business Processes

SOA and Web Services Interface Design

This volume constitutes the refereed proceedings of nine international workshops, EI2N+NSF ICE, ICSP, INBAST, ISDE, MONET, ORM, SeDeS, SWWS, and VADER 2011, held as part of OTM 2011 in Hersonissos on the island of Crete, Greece, in October 2011. The 64 revised full papers presented were carefully reviewed and selected from a total of 104 submissions. The volume also includes three papers from the On the Move Academy (OTMA) 2011 and five ODBASE 2011 poster papers. Topics of

the workshop papers are enterprise integration and semantics, information centric engineering, interoperability, industrial and business applications of semantic Web applications, information systems in distributed environments, process management in distributed information system development, distributed information systems: implementation issues and applications, industrial applications of fact-oriented modeling, data warehouse modeling, extensions to fact-oriented modeling, model validation procedures, schema transformations and mapping, semantic Web and Web semantics, ontology development, deployment and interoperability, data access and efficient computation, efficient information processing, exchange and knowledge synthesis algorithms, mobile and networking technologies for social applications, semantic and decision support, variability in software architecture, and dynamic and adaptive architectures.

Computer Science and Convergence is proceedings of the 3rd FTRA International Conference on Computer Science and its Applications (CSA-11) and The 2011 FTRA World Convergence Conference (FTRA WCC 2011). The topics of CSA and WCC cover the current hot topics satisfying the world-wide ever-changing needs. CSA-11 will be the most comprehensive conference focused on the various aspects of advances in computer science and its applications and will provide an opportunity for academic and industry professionals to discuss the latest issues

and progress in the area of CSA. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in CSA. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. The main scope of CSA-11 is as follows: - Mobile and ubiquitous computing - Dependable, reliable and autonomic computing - Security and trust management - Multimedia systems and services - Networking and communications - Database and data mining - Game and software engineering - Grid, cloud and scalable computing - Embedded system and software - Artificial intelligence - Distributed and parallel algorithms - Web and internet computing - IT policy and business management WCC-11 is a major conference for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of convergence technologies. The main scope of WCC-11 is as follows: - Cryptography and Security for Converged environments - Wireless sensor network for Converged environments - Multimedia for Converged environments - Advanced Vehicular Communications Technology for Converged environments - Human centric computing, P2P, Grid and Cloud computing for Converged environments - U-Healthcare for Converged environments - Strategic Security Management for Industrial

Technology - Advances in Artificial Intelligence and Surveillance Systems

The idea for this conference came from a meeting of the IFIP (International Federation for Information Processing) Technical Committee for Information Systems (TC8) in Guimares, Portugal in June 2005. Our goal is to build an IFIP forum among the different Information Systems Communities of TC8 dealing with the increasing important area of Enterprise Information Systems. In this particular meeting the committee members intensively discussed the innovative and unique characteristics of Enterprise Information Systems as scientific sub-discipline. Hence, in this meeting it was decided by the TC8 members that the IFIP TC8 First International Conference on Research and Practical Issues of Enterprise Information Systems (CONFENIS 2006) would be held in April 2006 in Vienna, Austria. Dr. Li Xu (USA) and Dr. A Min Tjoa (IFIP TC8) were assigned to propose a concept for this conference in order to establish an IFIP platform for EIS researchers and practitioners in the field to share experience, and discussing opportunities and challenges. We are very pleased therefore to have this conference organised by the help of the Austrian Computer Society (OCG). OCG supports the idea of this conference due to the urgent need of research and dissemination of new techniques in this key area. We received 180 papers from more than 30 countries for CONFENIS and the

Program Committee eventually selected xx papers or extended abstracts, making an acceptance rate of xx% of submitted papers. Each paper was thoroughly reviewed by at least two qualified reviewers.

The increasing adoption of Business Process Management (BPM) has inspired pioneering software architects and developers to effectively leverage BPM-based software and process-centric architecture (PCA) to create software systems that enable essential business processes. Reflecting this emerging trend and evolving field, Process-Centric Architecture

Enterprise Service Computing

Computational Science - ICCS 2006

Software and Data Technologies

Novel Methods and Technologies for Enterprise Information Systems

Enterprise Interoperability IV

eWork and eBusiness in Architecture, Engineering and Construction. ECPPM 2006

Conceptual Modeling: Foundations and Applications

The Expert, Practical Guide to Succeeding with SOA in the Enterprise In Executing SOA, four experienced SOA implementers share realistic, proven, "from-the-trenches" guidance for successfully delivering on even the largest and most complex SOA initiative. This book follows up

where the authors ' best-selling Service-Oriented Architecture Compass left off, showing how to overcome key obstacles to successful SOA implementation and identifying best practices for all facets of execution—technical, organizational, and human. Among the issues it addresses: introducing a services discipline that supports collaboration and information process sharing; integrating services with preexisting technology assets and strategies; choosing the right roles for new tools; shifting culture, governance, and architecture; and bringing greater agility to the entire organizational lifecycle, not just isolated projects. Executing SOA is an indispensable resource for every enterprise architect, technical manager, and IT leader tasked with driving value from SOA in complex environments. Coverage includes · Implementing SOA governance that reflects the organization ' s strategic and business focus · Running SOA projects successfully: practical guidelines and proven methodologies around service modeling and design · Leveraging reusable assets: making the most of your SOA repository · Enabling the architect to choose the correct tools and products containing the features required to execute on the SOA method for service design and implementation · Defining information services to get the right

information to the right people at the right time · Integrating SOA with Web 2.0 and other innovative products and solutions · Providing highly usable human interfaces in SOA environments

This book contains the best papers of the First International Conference on Software and Data Technologies (ICSOFT 2006), organized by the Institute for Systems and Technologies of Information, Communication and Control (INSTICC) in cooperation with the Object Management Group (OMG). Hosted by the School of Business of the Polytechnic Institute of Setubal, the conference was sponsored by Enterprise Ireland and the Polytechnic Institute of Setúbal. The purpose of ICSOFT 2006 was to bring together researchers and practitioners int- ested in information technology and software development. The conference tracks were "Software Engineering", "Information Systems and Data Management", "Programming Languages", "Distributed and Parallel Systems" and "Knowledge Engineering." Being crucial for the development of information systems, software and data te- nologies encompass a large number of research topics and applications: from imp- mentation-related issues to more abstract theoretical aspects of software engineering; from databases and data-warehouses to management

information systems and kno- edge-base systems; next to that, distributed systems, pervasive computing, data quality and other related topics are included in the scope of this conference. ICSOFT included in its program a panel to discuss the future of software devel- ment, composed by six distinguished world-class researchers. Furthermore, the c- ference program was enriched by a tutorial and six keynote lectures. ICSOFT 2006 received 187 paper submissions from 39 countries in all continents.

"This book displays how to effectively map and respond to the real-world challenges and purposes which software must solve, covering domains such as mechatronic, embedded and high risk systems, where failure could cost human lives"--Provided by publisher.

Collaborative Networks A Tool for Promoting Co-creation and Innovation The collaborative networks paradigm offers powerful socio-organizational mec- nisms, supported by advanced information and communication technologies for p- moting innovation. This, in turn, leads to new products and services, growth of better customer relationships, establishing better project and process management, and building higher-performing consortia. By putting diverse entities that bring different

perspectives, competencies, practices, and cultures, to work together, collaborative networks develop the right environment for the emergence of new ideas and more efficient, yet practical, solutions. This aspect is particularly important for small and medium enterprises which typically lack critical mass and can greatly benefit from participation in co-innovation networks. However, larger organizations also benefit from the challenges and the diversity found in collaborative ecosystems. In terms of research, in addition to the trend identified in previous years toward a sounder consolidation of the theoretical foundation in this discipline, there is now a direction of developments more focused on modeling and reasoning about new c- laboration patterns and their contribution to value creation. " Soft issues, " including social capital, cultural aspects, ethics and value systems, trust, emotions, behavior, etc. continue to deserve particular attention in terms of modeling and reasoning. Exploi- tion of new application domains such as health care, education, and active aging for retired professionals also help identify new research challenges, both in terms of m- eling and ICT support development.

Executing SOA

Challenges and Practices

Intelligent and Knowledge-Based Computing for Business and Organizational Advancements
Leveraging Knowledge for Innovation in Collaborative Networks
Handbook of Research on Emerging Advancements and Technologies in Software Engineering
MDD, SOA and IT-Management
Service-oriented Architecture Best Practices

"This book assists its readers in recommending formulation of ICT strategies for e-government implementation and maintenance from the perspective of acknowledging the importance of e-Governance for building institutions to achieve transparency and accountability, and eventually democratic governance"--Provided by publisher.

These proceedings represent trends in Product Development concerning industrial vendors and scientific research aspects. Coverage includes the following topics are covered: Design Theory, Product Design, Requirements, Collaborative Engineering, Complex Design, Mechatronics, Reverse Engineering, Virtual Prototyping, CAE, KBE and PLM. The papers presented in this book show that answers can only be composed out of a variety of solutions where psychological, economical and technical research results are taken into account.

Driven by the need and desire to reduce costs, organizations are faced with a set of decisions that require analytical scrutiny. Enterprise Architecture A to Z: Frameworks, Business Process Modeling, SOA, and Infrastructure Technology examines cost-saving trends in architecture planning, administration, and management. To establish a framework for discussion, this book

begins by evaluating the role of Enterprise Architecture Planning and Service-Oriented Architecture (SOA) modeling. It provides an extensive review of the most widely deployed architecture framework models. In particular, the book discusses The Open Group Architecture Framework (TOGAF) and the Zachman Architectural Framework (ZAF) in detail, as well as formal architecture standards and all four layers of these models: the business architecture, the information architecture, the solution architecture, and the technology architecture. The first part of the text focuses on the upper layers of the architecture framework, while the second part focuses on the technology architecture. In this second section, the author presents an assessment of storage technologies and networking and addresses regulatory and security issues. Additional coverage includes high-speed communication mechanisms such as Ethernet, WAN and Internet communication technologies, broadband communications, and chargeback models. Daniel Minoli has written a number of columns and books on the high-tech industry and has many years of technical hands-on and managerial experience at top financial companies and telecom/networking providers. He brings a wealth of knowledge and practical experience to these pages. By reviewing the strategies in this book, CIOs, CTOs, and senior managers are empowered by a set of progressive approaches to designing state-of-the-art IT data centers.

This volume is the first 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 68 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 ad hoc

networks; advanced micro architecture techniques; autonomic and context-aware computing; bioinformatics and bio-computing; cloud, cluster, grid and P2P computing; cognitive radio and cognitive networks; cyber forensics; database and information systems.

Enterprise Architecture A to Z

Model-Driven Domain Analysis and Software Development: Architectures and Functions

Architectures and Functions

PHealth 2015

Essays in Honor of John Mylopoulos

Service-oriented Software System Engineering

Advanced Information Systems Engineering

This volume constitutes the proceedings of the 5th International Conference on E-Technologies, MCETECH 2011, held in Les Diablerets, Switzerland, January 23-26, 2011. Originally 10 papers were selected from a total of 32 submissions. Seven additional papers were included following a second round of reviewing and improvement.The papers in this volume cover topics such as process modeling, organizational transformation, e-Business, e-Government, e-Education, and e-Health.

"This book offers information on the latest advancements and research for Enterprise Interoperability knowledge as well as core concepts, theories, and future directions"--

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.

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.

6th International Conference, Reading, UK, May 28-31, 2006, Proceedings

On the Move to Meaningful Internet Systems: OTM 2011 Workshops

Enterprise SOA

Revolutionizing Enterprise Interoperability through Scientific Foundations

Cloud Enterprise Architecture

5th International Conference, MCETECH 2011, Les Diablerets, Switzerland, January 23-26,

2011, Revised Selected Papers

Proceedings of the 12th International Conference on Wearable Micro and Nano Technologies for Personalized Health 2–4 June 2015 Västerås, Sweden

This book constitutes the refereed proceedings of the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, held in London, UK, in June 2011. The 42 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 320 submissions. In addition the book contains the abstracts of 2 keynote speeches. The contributions are organized in topical sections on requirements; adaptation and evolution; model transformation; conceptual design; domain specific languages; case studies and experiences; mining and matching; business process modelling; validation and quality; and service and management.

Corporations accumulate a lot of valuable data and knowledge over time, but storing and maintaining this data can be a logistic and financial headache for business leaders and IT specialists. Uncovering Essential Software Artifacts through Business Process Archaeology introduces an emerging method of software modernization used to effectively manage legacy systems and company operations supported by such systems. This book presents methods, techniques, and new trends on business process archeology as well as some industrial

success stories. Business experts, professionals, and researchers working in the field of information and knowledge management will use this reference source to efficiently and effectively implement and utilize business knowledge.
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 take 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.

Annotation 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.

Requirements Modelling and Specification for Service Oriented Architecture

From Concept to Deployment

Confederated International Workshops and Posters, EI2N+NSF ICE, ICSP+INBAST, ISDE, ORM, OTMA, SWWS+MONET+SeDeS, and VADER 2011, Hersonissos, Crete, Greece, October 17-21, 2011, Proceedings

IFIP TC 8 International Conference on Research and Practical Issues of Enterprise Information Systems (CONFENIS 2006) April 24-26, 2006, Vienna, Austria

Principles, Techniques, and Standards

Interoperability for Enterprise Software and Applications

A Handbook for Educators, Consulters and Practitioners

Organizations have always been dependent on communication, information, technology, and their management. The development of information technology has sped up the importance of business informatics, which is an emerging discipline combining various aspects of informatics, information technology, and business management. Understanding the impact of information on today's organizations requires technological and managerial views, which are both offered by business informatics. Business management is not only about generating greater returns and using new technologies for developing businesses to reach future goals. Business management also means generating better revenue performance if plans are diligently followed. It is part of business management to have an ear to the ground of global economic trends, changing environmental conditions and preferences, as well

as the behavior of value chain partners. While, until now, business management and business informatics are mostly treated as independent fields, this publication takes an interest in the cooperation of the two. Its contributions focus on both research areas and practical approaches, in turn showing novelties in the area of enterprise and business management. Among the other topics covered in this book are strategic management, contact relationship management, corporate social responsibility, corporate blogging, enterprise resource planning, E-business management, E-learning, balanced scorecarding, logistics, operations research, enterprise and software architectures, and social software systems. This book adopts an international view, combines theory and practice, and is authored for researchers and lecturers as well as consultants and practitioners.

Many software developers often confuse requirements engineering with software specification and, as a result, build unusable systems, despite meeting specifications. Bringing together all the techniques needed by the modern software developer, here is a practical handbook to requirements engineering and systems specification for developers building systems within a service oriented architecture.

It introduces the concepts of SOA and relevant standards and technology, such as Web services and ESBs, and then presents a range of modern requirements engineering techniques.
The automation of cross-organizational business processes is one of the most important trends of the information age. Instead of a tight integration however, collaborating organizations rather strive for a loose coupling of their information systems. Supporting this objective, the Architecture of Interoperable Information Systems (AIOS) represents a means for the comprehensive description of loosely coupled, interoperating information systems and for the systematic, model-based enactment of collaborative business processes. To this aim, it combines concepts from the areas of enterprise modeling, collaborative business and Service-oriented Computing. At the core of the architecture lies the Business Interoperability Interface, which describes the information system boundaries of one organization to its collaboration partners and connects internal and external information systems. Detailed procedure models specify the usage of the AIOS; its application to an example scenario as well as prototypes that implement core aspects of the AIOS exemplify the method. This book addresses

researchers as well as practitioners interested in the areas of organizational interoperability and the modeling and enactment of collaborative business processes.

Making the Internet of the Future for the Future of Enterprise

10th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2009, Thessaloniki, Greece, October 7-9, 2009, Proceedings

Proceedings of the 17th CIRP Design Conference

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