

B2b Integration Springer

Maintaining compatibility among all affected network and application interfaces of modern enterprise systems can quickly become costly and overwhelming. This handbook presents the knowledge and practical experience of a global group of experts from varying disciplines to help you plan and implement enterprise integration projects that respond to business Knowledge and Technology Management in Virtual Organizations: Issues, Trends, Opportunities and Solutions presents a collection of the most recent contributions in the areas of organization, knowledge, and technology management in the context of virtual enterprises. This book contains important and in-depth information on four dimensions: semantic, managerial, technological, and social. The semantic dimensions covered in this book are ontological and organizational approaches, concepts, organizational models, and knowledge management models. In respect to managerial dimensions, this book covers process management, integration management, relationship management, process integration, knowledge management, technology integration management, and information integration. Knowledge and Technology Management in Virtual Organizations: Issues, Trends, Opportunities and Solutions presents the technological dimension by explaining the infrastructures and technologies to support technology and information integration standards and protocols. Lastly, this title highlights the social dimension, including human resources management, human resources integration, social issues, social impact, social requirements, and communities of knowledge.

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.

Manufacturing plays a vital role in European economy and society, and is expected to continue as a major generator of wealth in the foreseeable future. A competitive manufacturing industry is essential for the prosperity of Europe, especially in the face of accelerating deindustrialisation. This book provides a broad vision of the future of manufacturing, analysed from a system-management viewpoint and with a special focus on ICT-related matters. Each contribution presents a complex and multidisciplinary research domain from a specific perspective. The first part of the book gives an overview on technology: past, present and future, while the following topics are introduced in the latter part of the book: - Product Lifecycle Management - Sustainable Products and Processes - Production Scheduling and Control - Benchmarking and Performance Measures - Industrial Services - Human Factors and Education in Manufacturing - Collaborative Engineering - Supply Chain Integration The book is intended to provoke debate, build consensus and stimulate creative discussion, leading to further novel research initiatives in the future.

Service-oriented Software System Engineering

Practice-Driven Research on Enterprise Transformation

Member State Interests and European Union Law

Handbook of Enterprise Integration

Global Business: Concepts, Methodologies, Tools and Applications

Bridging People and Software Through Process Technology

6th Working Conference, PRET 2013, Utrecht, The Netherlands, June 6, 2013, Proceedings

This book constitutes the refereed proceedings of the 5th Annual International Conference on Object-Oriented and Internet-Based Technologies, Concepts and Applications for a Networked World, Net. Object Days 2004, held in Erfurt, Germany, in September 2004. The 15 revised full papers presented together with an invited paper were carefully reviewed and selected from inclusion in the book. The papers are organised in topical sections on languages and models, agents and the semantic Web, supporting software processes, software product lines, and case studies and visions.

This book constitutes the refereed proceedings of the Second International Workshop on Technologies for E-Services, TES 2001, held in Rome, Italy, in September 2001. The 15 revised full papers presented were carefully reviewed and selected for inclusion in the book. Among the topics addressed are b2b protocols, inter-enterprise process execution, business logic, cooperative multiplatform environments, session-oriented telecommunication services, cross-organizational workflow environments, Internet-based workflow, composite e-services, transactional business processes, e-service security, distributed e-services, mobile commerce, e-commerce, pervasive services infrastructure, and mobile Internet agents.

The logistician plays a critical role in the growth of his or her company – in this third edition of Essentials of Logistics, the conceptual framework in which all the stakes and themes of logistics is systematically analyzed, with a strong focus on the role of the supply chain. Indeed, many elements are critical to the successful logistical strategy: customer relation management, interactive information support, production optimization and process development, vision, strategy and operations management, and human resources and resource allocation. Growing out of a successful course given by the International Institute for the Management of Logistics (IML) of the Swiss Federal Institute of Technology (EPFL), in Lausanne, and by the Ecole des Ponts-ParisTech (ENPC), the purpose of this book is to present a methodology allowing the reader to understand and act based on the critical factors embedded in the design of strategy. Concepts are thus combined with practical examples. Transversal vision and detailed case studies highlight the main themes of modern logistics and daily preoccupations of logisticians. The book is addressed to all professionals of logistics: managers, planners and engineers; as well as to graduate students specializing in the field.

Uncovers the growing and expanding phenomenon of human behavior, social constructs, and communication in online environments.

B2B Integration

Knowledge and Technology Management in Virtual Organizations: Issues, Trends, Opportunities and Solutions

Encyclopedia of Database Technologies and Applications

Semantic Web for Business: Cases and Applications

NODe 2004

Second International Workshop, TES 2001, Rome, Italy, September 14-15, 2001. Proceedings

Advanced Manufacturing. An ICT and Systems Perspective

"This book presents research related to the application of semantic Web technologies, including semantic service-oriented architecture, semantic content management, and semantic knowledge sharing in e-business processes. It compiles research from experts around the globe to bring to the forefront the many issues surrounding the application of semantic Web technologies in e-business"--Provided by publisher.

"This book presents quality articles focused on key issues concerning technology in business"--Provided by publisher.

Internet and web technology penetrates many aspects of our daily life. Its importance as a medium for business transactions will grow exponentially during the next few years. In terms of the involved market volume, the B2B area will hereby be the most interesting area. Also, it will be the place, where the new technology will lead to drastic changes in established customer relationships and business models. In an era where open and flexible electronic commerce provides new types of services to its users, simple 1-1 connections will be replaced by n-m relationships between customers and vendors. This new flexibility in electronic trading will generate serious challenges. The main problem stems from the heterogeneity of information descriptions used by vendors and customers, creating problems in both manual trading and in direct 1-1 electronic trading. In the case of B2B market places, it becomes too serious to be neglected. Product descriptions, catalog formats and business documents are often unstructured and non-standardized. Intelligent solutions that mechanize the structuring, standardizing, aligning, and personalizing process are a key requisite for successfully overcoming the current bottlenecks of B2B electronic commerce while enabling its further growth. Intelligent Information Integration in B2B Electronic Commerce discusses the main problems of information integration in this area and sketches several technological solution paths. Intelligent Information Integration in B2B Electronic Commerce is designed to meet the needs of a professional audience composed of researchers and practitioners in industry and graduate level students in Computer Science.

This volume constitutes the proceedings of the 6th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET), held in Utrecht, The Netherlands, on June 6, 2013, co-located with the Enterprise Transformation Track of the 21st European Conference on Information Systems (ECIS). Successful enterprises have well-defined managerial responsibilities and understandable project priorities and enable their processes to be sufficiently agile, even improvisational and continuously changing. They do not solely rely on only mechanistic or purely organic processes and structures, but see enterprise transformation as a combination of deliberate and organic change. This year's papers represent this hybrid view. Moreover, most of them are based on practical cases, which will further contribute to our understanding of enterprise transformation. The eight papers presented in this volume were allocated to tracks on: practical experiences with methods and techniques; cases in enterprise transformation; and enterprise architecture in practice.

Evaluierung des Einsatzes der UN/CEFACT Modeling Methodology (UMM) bei einer deutschen Kapitalanlagegesellschaft

Encyclopedia of Networked and Virtual Organizations

Post-Trade Processing of OTC Derivatives

Concepts, Methodologies, Tools and Applications

Between Compliance and Particularism

Advances in Conceptual Modeling - Theory and Practice

Service Composition for the Semantic Web

[Administration (référence électronique) ; informatique].

"Addresses the evolution of database management, technologies and applications along with the progress and endeavors of new research areas."--P. xiii.

The logistician plays a critical role in the growth of his or her company - in this third edition of Essentials of Logistics, the conceptual framework in which all the stakes and themes of logistics is systematically analyzed, with a strong focus on the role of the supply chain.Indeed, many elements are critical to the successful logistical strateg Business-to-business (B2B) integration is a buzzword which has been used a lot in recent years, with a variety of meanings. Starting with a clear technical definition of this term and its relation to topics like A2A (Application-to-Application), ASP (Application Service Provider), A2A, and B2C (Business-to-Consumer), Christoph Bussler outlines a complete and consistent B2B integration architecture based on a coherent conceptual model. He shows that B2B integration not only requires the exchange of business events between distributed trading partners across networks like the Internet, but also demands back-end application integration within business processes, and thus goes far beyond traditional approaches to enterprise application integration approaches. His detailed presentation describes how B2B integration standards like RosettaNet or SWIFT, the application integration standard J2EE Connector Architecture and basic standards like XML act together in order to enable business process integration. The book is the first of its kind that discusses B2B concepts and architectures independent of specific and short-term industrial or academic approaches and thus provides solid and long-lasting knowledge for researchers, students, and professionals interested in the field of B2B integration.

The SESA Framework

Semantic Web Technologies and E-Business: Toward the Integrated Virtual Organization and Business Process Automation

Advanced Information Systems Engineering

Co-Creation of High-Tech Products in the B2B Domain

User-Centric Application Integration in Enterprise Portal Systems

Handbook of Research on Innovations in Database Technologies and Applications

Nutzung von Modellierungssprachen und -methodologien standardisierter B2B-Architekturen für die Integration unternehmensinterner Geschäftsprozesse

B2B IntegrationConcepts and ArchitectureSpringer Science & Business Media

This volume contains 29 submitted and 2 invited papers presented at the tenth East-European Conference on Advances in Databases and Information Systems (ADVIS 2003), which took place in Dresden, Germany, September 3-6, 2003. An international program committee of 42 members from 24 countries s- ected these contributions from 86 submissions. Eight additional contributions were selected as short papers and have been published in a separate volume of local proceedings by the organizing institution. For the irst time, ADBIS also included an industrial program consisting of nine submitted presentations by representatives of commercial companies active in the database market. ADBIS 2003 was the tenth scienti?c event taking place under the acronym ADBIS, and thus marks a ?rst “jubilee” for this young, but by now we- established,seriesofconferences. ADBISwasfoundedbytheMoscowACMSIG- MOD Chapter in 1993. In 1994-1996 ADBIS was held in the form of workshops organized by the MOSCOW ACM SIGMOD Chapter in collaboration with the RussianFoundationforBasicResearch. Inthisperiod,anumberofinternational guests were invited to Moscow every year in order to improve and consolidate contacts between the national research community in Russia and the research community worldwide. International program committees for ADBIS were es- blished in 1995, contributing to the quality of the selection process and thus of the conference contributions in general. In 1996, following discussions with Dr.

Collaborative Network Organizations (CNO) corresponds to a very active and steadily growing area. For instance, Virtual enterprises/Virtual Organizations (PVC) suggest new ways of work and put the emphasis on collaborative networks of human actors. Further to these main lines, other collaborative forms and patterns of collaborative behavior are emerging, not only in industry, but also in service sector, as well as governmental and non-government social organizations, e.g. the collaborative networks for rescue tasks in disaster situations, time bank organizations, etc. The concept of breeding environment is now understood as a fundamental entity to enable dynamic collaborative organizations.

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.

7th East European Conference, ADBIS 2003, Dresden, Germany, September 3-6, 2003, Proceedings

Implementing Semantic Web Services

19th International Conference, CAISE 2007, Trondheim, Norway, June 11-15, 2007, Proceedings

Enterprise Information Systems: Concepts, Methodologies, Tools and Applications

Virtual Enterprises and Collaborative Networks

Data Management in a Connected World

Interoperability of Enterprise Software and Applications

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.

"This book provides simple costs and benefits analysis showing that the Semantic Web is prepared for e-business"--Provided by publisher.

This book constitutes the refereed joint proceedings of seven international workshops held in conjunction with the 25th International Conference on Conceptual Modeling, ER 2006, in Tucson, AZ, USA in November 2006. The 39 revised full papers presented together with the outlines of three tutorials were carefully reviewed and selected from 95 submissions.

This book constitutes the refereed proceedings of the 19th International Conference on Advanced Information Systems Engineering, CAiSE 2007, held in Trondheim, Norway in June 2007. It covers ontologies, extended enterprises, information integration, service-oriented architecture, strategic alignment, requirements, process modeling, method engineering, novel applications, participative modeling, and process-aware information systems.

Concepts, Methodologies, Tools, and Applications

Data Access in Workflow Management Systems

Intelligent Information Integration in B2B Electronic Commerce

Advances in Databases and Information Systems

Concepts, Architectures and Applications

Electronic Business: Concepts, Methodologies, Tools, and Applications

Issues, Trends, Opportunities and Solutions

The financial crisis of 2007–2009 exposed the weaknesses of the global over-the-counter (OTC) derivatives market such as limited transparency regarding risk exposures, poor counterparty risk management practices, and the risk of contagion arising from interconnectedness in this market. In the aftermath of the financial crisis, regulators introduced worldwide legislative and regulatory changes aimed at increasing the transparency and stability of the financial markets. In this book, Dr. Olga Lewandowska explores those novel regulatory solutions and their impact. The main focus is on central counterparty (CCP) clearing that became mandatory for OTC derivatives under the new regulatory paradigm. In four research papers, she analyzes CCP from different risk perspectives and based on four diverse research methods. Her book offers a comprehensive assessment of the risk-reduction potential of the CCPs, their implications for the financial markets, and the practical challenges in the implementation of the recent financial market reforms.

A unifying foundation to design and implement process-aware information systems This publication takes on the formidable task of establishing unifying foundation and set of common underlying principles to effectively model, design, and implement process-aware information systems. Authored by leading authorities and pioneers in the field, Process-Aware Information Systems helps readers gain a thorough understanding of major concepts, languages, and techniques for building process-aware applications, including: * UML and EPCs: two of the most widely used notations for business process modeling * Concrete techniques for process design and analysis * Process execution standards: WfMC and BPEL * Representative commercial tools: ARIS, TIBCO Staffware, and FLOWer Each chapter begins with a description of the problem domain and then progressively unveils relevant concepts and techniques. Examples and illustrations are used extensively to clarify and simplify complex material. Each chapter ends with a set of exercises, ranging from simple questions to thought-provoking assignments. Sample solutions for many of the exercises are available on the companion Web site. Armed with a new and deeper understanding, readers are better positioned to make their own contributions to the field and evaluate various approaches to a particular task or problem. This publication is recommended as a textbook for graduate and advanced undergraduate students in computer science and information systems, as well as for professionals involved in workflow and business process management, groupware and teamwork, enterprise application integration, and business-to-business integration. A Solution's Manual is available online. An Instructor Support FTP site is also available.

"This book aids managers in the transformation of organizations into world-class competitors through business process applications"--Provided by publisher.

Enhances libraries worldwide through top research compilations from over 250 international authors in the field of e-business.

Cases and Applications

Selected Readings on Information Technology and Business Systems Management

Concepts and Architecture

Essentials of Logistics and Management

ER 2006 Workshops BP-UML, CoMoGIS, COSS, ECDM, OIS, QoIS, SemWAT, Tucson, AZ, USA, November 6-9, 2006, Proceedings

Current and Future Trends

Web Services

The book examines how the interests of the member states, which provide the primary driving force for developments in European integration, are internalised and addressed by the law of the European Union. In this context, member state interests are taken to mean the policy considerations, economic calculations, local socio-cultural factors, and the raw expressions of political will which shape EU policies and determine member state responses to the obligations arising from those policies. The book primarily explores the junctions and disjunctions between member state interests defined in such a manner and EU law, where the latter expresses either an obligation for the member states to comply with common policies or an acceptance of member state particularism under the common EU framework.

Interoperability: the ability of a system or a product to work with other systems or products without special effort from the user is a key issue in manufacturing and industrial enterprise generally. It is fundamental to the production of goods and services quickly and at low cost at the same time as maintaining levels of quality and customisation. Composed of 40 papers of international authorship, Interoperability of Enterprise Software and Applications ranges from academic research through case studies to industrial experience of interoperability. Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas. A concise reference to the state of the art in software interoperability, Interoperability of Enterprise Software and Applications 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.

This book constitutes the refereed proceedings of 6 international workshops held in conjunction with the 4th International Conference on Business Process Management, BPM 2006, in Vienna, Austria in September 2006. The 40 revised full papers presented were carefully reviewed and selected from a total of 94 overall submissions to six international workshops.

Leontin Karl Grafmüller explores how companies can better manage co-creation in the B2B high-tech domain. Co-creation is an active, creative and social collaboration process between customers and providers, in which customers become active participants in innovation processes of a firm to jointly develop new products. The co-creation of high-tech products poses several challenges related to high product complexity such as the time intensity or incorrect specifications. The author investigates this topic from different angles and showcases how the challenges involved are faced to enhance both the efficiency and efficacy of the co-creation of high-tech products in the B2B domain.

Technologies for E-Services

Toward the Integrated Virtual Organization and Business Process Automation

BPM 2006 International Workshops, BPD, BPI, ENEI, GPWW, DPM, semantics4ws, Vienna, Austria, September 4-7, 2006, Proceedings

Process-Aware Information Systems

Handbook of Research on Business Process Modeling

Essays Dedicated to Hartmut Wedekind on the Occasion of His 70th Birthday

"This book provides a wide compendium of references to topics in the field of the databases systems and applications"--Provided by publisher.

"This multi-volume reference examines critical issues and emerging trends in global business, with topics ranging from managing new information technology in global business operations to ethics and communication strategies"--Provided by publisher.

The ever growing number of application scenarios for IT systems leads to a significant increase in their number and hence to a level of complexity that has grown tremendously in comparison with early IT installations by the mid of the past decade. In numerous attempts to integrate these diverging application stacks, various prominent methods have emerged in the past, most recently the topic of EAI which strives to achieve a consolidated view at diverse application systems. However, the emergence and rise of cloud-based services leads to new challenges to deal with. Usage of offerings from a no further specified cloud appears appealing for IT decision makers since it promises cost savings while even enhancing flexibility to quickly respond to changing market needs. To further support this idea, this work focuses on the aspect of inter-organisational networks that are characterised by short setup times and short time to market in order to achieve innovative products emerging from the cooperation between different actors. In this context, proper backing by dedicated ICT components is one of the key challenges. This book therefore demonstrates how portal systems, acting as intermediary between providers and consumers, can be embedded into networked enterprises by providing seamless access to all relevant information. To achieve this, this book presents a generic architecture that can serve as a blueprint for future implementations for the type of enterprise portals introduced previously and focuses on integration of external services in a user-centric manner, concentrating on the user and his specific needs to achieve productivity and user satisfaction gains. Moreover, secure communication facilities allow to consider the current application and/or user context to control exchange of information between different applications integrated on the portal platform.

Service Composition for the Semantic Web presents an in-depth analysis of aspects related to semantic-enabled Web service modeling and composition. It also covers challenges and solutions to composing Web services on the semantic Web, and proposing a semantic framework for organizing and describing Web services. Service Composition for the Semantic Web describes composability and matching models to check whether semantic Web services can be combined together to avoid unexpected failures at run time, and a set of algorithms that automatically generate detailed descriptions of composite services from high-level specifications of composition requests. The book includes case studies in the areas of digital government and bioinformatics.

Essentials of Logistics and Management, Third Edition

Social Computing: Concepts, Methodologies, Tools, and Applications

Business Process Management Workshops

Challenges and Practices

IFIP 18th World Computer Congress TC5/WG5.5 — 5th Working Conference on Virtual Enterprises 22–27 August 2004 Toulouse, France

In this book, Dieter Fensel and his qualified team lay the foundation for understanding the Semantic Web Services infrastructure, aimed at eliminating human intervention and thus allowing for seamless integration of information systems. They focus on the currently most advanced SWS infrastructure, namely SESA and related work such as the Web Services Execution Environment (WSMX) activities and the Semantic Execution Environment (OASIS SEE TC) standardization effort.

Data management systems play the most crucial role in building large application systems. Since modern applications are no longer single monolithic software blocks but highly flexible and configurable collections of cooperative services, the data management layer also has to adapt to these new requirements. Therefore, within recent years, data management systems have faced a tremendous shift from the central management of individual records in a transactional way to a platform for data integration, federation, search services, and data analysis. This book addresses these new issues in the area of data management from multiple perspectives, in the form of individual contributions, and it outlines future challenges in the context of data management. These contributions are dedicated to Prof. em. Dr. Dr.-Ing. E. h. Hartmut Wedekind on the occasion of his 70th birthday, and were (co-)authored by some of his academic descendants. Prof. Wedekind is one of the most prominent figures of the database management community in Germany, and he enjoys an excellent international reputation as well. Over the last 35 years he greatly contributed to making relational database technology a success. As far back as the early 1970s, he covered—as the first author in Germany—the state of the art concerning the relational model and related issues in two widely used textbooks “Datenbanksysteme I” and “Datenbanksysteme II”. Without him, the idea of modeling complex-structured real-world scenarios in a relational way would be far less developed by now. Among Prof.