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Standards and Standardization: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2015-02-28

Effective communication requires a common language, a truth that applies to science and mathematics as much as it does to culture and conversation. *Standards and Standardization: Concepts, Methodologies, Tools, and Applications* addresses the necessity of a common system of measurement in all technical communications and endeavors, in addition to the need for common rules and guidelines for regulating such enterprises. This multivolume reference will be of practical and theoretical significance to researchers, scientists, engineers, teachers, and students in a wide array of disciplines.

Advances in Enterprise Engineering IV - Antonia Albani 2010-06

This book constitutes the proceedings of the 6th International Workshop on Cooperation and Interoperability, Architecture and Ontology (CIAO! 2010), held at the DESRIST 2010 conference in St. Gallen, Switzerland, on June 4, 2010. The 6 papers included in the book were carefully reviewed and selected from 13 submissions. The topics covered are Enterprise Ontology, Organizational Modeling, and System Development.

Innovations in Enterprise Information Systems Management and Engineering - Michael Felderer 2016-04-02

This volume presents the revised and peer reviewed contributions of the 'ERP Future 2015' conference held in Munich, Germany on November 16-17, 2015. The ERP Future 2015 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 using enterprise information systems. The 7 full papers and 5 short papers accepted for ERP were selected from 23 submissions. The papers consider topics in education in enterprise systems; business process management; enterprise systems and solution providers; and IT-trends.

E-Collaboration Technologies and Organizational Performance: Current and Future Trends - Kock, Ned 2010-12-31

"This book reviews recent advances in the e-collaboration discipline with a focus on virtual teams, firm performance, social capital formation, and Web-based communities"--Provided by publisher.

Building Sustainable Information Systems - Henry Linger 2013-11-08

Information Systems (IS) as a discipline draws on diverse areas including, technology, organisational theory, management and social science. The field is recognized as very broad and encompassing many themes and areas. However, the development of artefacts, or information systems development (ISD), in the broadest sense, is a central concern of the discipline. Significantly, ISD impacts on the organisational and societal contexts through the use of the artefacts constructed by the development. Today, that impact also needs to be evaluated in terms of its effects on the environment. Sustainable, or "green," IT is a catch-all

term used to describe the development, manufacture, management, use and disposal of ICT in a way that minimizes damage to the environment. As a result, the term has many different meanings, depending on the role assumed in the life span of the ICT artefact. The theme of the proposed work is to critically examine the whole range of issues around ISD from the perspective of sustainability. Sustainable IT is an emerging theme in academic research and industry practice in response to an individual concern for the environment and the embryonic regulatory environments being enacted globally to address the environmental impact of ICT. In this work we intend to bring together in one volume the diverse research around the development of sustainable IS.

Service Intelligence and Service Science: Evolutionary Technologies and Challenges - Leung, Ho-fung 2010-09-30

"This book presents the emerging fields of service intelligence and service science, positioning them as the most promising directions for the evolution of service computing, demonstrating the critical role such areas play in supporting service computing processes"--Provided by publisher.

Fourth International Conference on Factory 2000 - Advanced Factory Information, 3-5 October 1994 - Institution of Electrical Engineers. Computing & Control Division 1994

The proceedings of the October 1994 conference comprise technical papers in sessions on expert systems, implementation of factory automation, strategic and scheduling considerations, technology transfer and quality issues, simulation and modeling (two sessions), knowledge-based systems, manufacturing systems (two sessions), quality (two sessions), manufacturing processes, and concurrent engineering. There are also 39 poster papers. Reproduced from typescripts. No index. Distributed by INSPEC. Annotation copyright by Book News, Inc., Portland, OR.

Advanced Principles for Improving Database Design, Systems Modeling, and Software Development - Siau, Keng 2008-11-30

"This book presents cutting-edge research and analysis of the most recent advancements in the fields of database systems and software development"--Provided by publisher.

Digital Enterprise Technology - Pedro Filipe Cunha 2007-09-18

The first Digital Enterprise Technology (DET) International Conference was held in Durham, UK in 2002 and the second DET Conference in Seattle, USA in 2004. Sponsored by CIRP (College International pour la Recherche en Productique), the third DET Conference took place in Setúbal, Portugal in 2006. *Digital Enterprise Technology: Perspectives and Future Challenges* is an edited volume based on this conference. Topics include: distributed and collaborative design, process modeling and process planning, advanced factory equipment and layout design and modeling, physical-to-digital environment integrators, enterprise integration technologies, and entrepreneurship in DET.

Advances and Innovations in Systems, Computing Sciences and Software Engineering - Khaled Elleithy 2007-08-28

This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computing Sciences, Software Engineering and Systems. The book presents selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006). All aspects of the conference were managed on-line.

Global Engineering, Manufacturing and Enterprise Networks - John P.T. Mo 2013-06-29

The availability of effective global communication facilities in the last decade has changed the business goals of many manufacturing enterprises. They need to remain competitive by developing products and processes which are specific to individual requirements, completely packaged and manufactured globally. Networks of enterprises are formed to operate across time and space with world-wide distributed functions such as manufacturing, sales, customer support, engineering, quality assurance, supply chain management and so on. Research and technology development need to address architectures, methodologies, models and tools supporting intra- and inter-enterprise operation and management. Throughout the life cycle of products and enterprises there is the requirement to transform information sourced from globally distributed offices and partners into knowledge for decision and action. Building on the success of previous DrrSM conferences (Tokyo 1993, Eindhoven 1996, Fort Worth 1998), the fourth International Conference on Design of Information Infrastructure Systems for Manufacturing (DrrSM 2000) aims to:

- Establish and manage the dynamics of virtual enterprises, define the information system requirements and develop solutions;
- Develop and deploy information management in multi-cultural systems with universal applicability of the proposed architecture and solutions;
- Develop enterprise integration architectures, methodologies and information infrastructure support for reconfigurable enterprises;
- Explore information transformation into knowledge for decision and action by machine and skilful people;

These objectives reflect changes of the business processes due to advancements of information and communication technologies (ICT) in the last couple of years.

Proceedings of the First International Conference on Advanced Data and Information Engineering (DaEng-2013) - Tutut Herawan 2013-12-14

The proceeding is a collection of research papers presented at the International Conference on Data Engineering 2013 (DaEng-2013), a conference dedicated to address the challenges in the areas of database, information retrieval, data mining and knowledge management, thereby presenting a consolidated view to the interested researchers in the aforesaid fields. The goal of this conference was to bring together researchers and practitioners from academia and industry to focus on advanced on data engineering concepts and establishing new collaborations in these areas. The topics of interest are as follows but are not limited to:

- Database theory
- Data management
- Data mining and warehousing
- Data privacy & security
- Information retrieval, integration and visualization
- Information system
- Knowledge discovery in databases
- Mobile, grid and cloud computing
- Knowledge-based
- Knowledge management
- Web data, services and intelligence

Advanced Materials and Engineering Materials - Sally Gao 2012-01-24

This conference provided a platform for the presentation of cutting-edge work in the management of Advanced Materials and Engineering Materials. The 292 papers are grouped into the chapters: 1: Advanced Materials Science, 2: Engineering Research, 3: Materials and Information Technology, 4: Materials Processing Technology, 5: Mechanical and Computer Control, 6: System Analysis and Industrial Engineering, 7: Intelligent Mechatronics and 8: Signal Processing. Volume is indexed by Thomson Reuters CPCI-S (WoS).

Engineering the Transformation of the Enterprise - Stephan Aier 2021-09-01

The topics in this book cover a broad range of research interests: from business engineering and its application in corporate and business networking contexts to design science research as well as applied topics, where those research methods have been employed for modeling, data warehousing, information systems management, enterprise architecture management, management of large and complex projects, and enterprise transformation. The book is a Festschrift for Robert Winter in order to appreciate his work and to honor him as a personality with a high reputation in the information systems community. To this end, many professional colleagues or long-time companions both from the Institute of Information Management

at the University of St. Gallen as well as from the international research community dedicated articles on topics related to Robert's research. They reflect his ambition to uncompromisingly conduct high-class research that fuels the research community and at the same time contributes to improved industrial practice. The book is organized in three major parts: Part I "Business Engineering and Beyond" focuses on the methodology strongly shaped by Robert in St. Gallen with a focus on research being applied in corporate contexts. Part II "Design Science Research" spans from reflections on the practice of design science research to perspectives on design science research methodologies and eventually up to considerations to teach design science research methodology. Part III "Applied Fields" combines various applications of design science and related research methodologies with practical problems and future research topics.

Advances in E-Learning: Experiences and Methodologies - Garcia-Pealvo, Francisco Jos 2008-03-31
Web-based training, known as e-learning, has experienced a great evolution and growth in recent years, as the capacity for education is no longer limited by physical and time constraints. The emergence of such a prized learning tool mandates a comprehensive evaluation of the effectiveness and implications of e-learning. *Advances in E-Learning: Experiences and Methodologies* explores the technical, pedagogical, methodological, tutorial, legal, and emotional aspects of e-learning, considering and analyzing its different application contexts, and providing researchers and practitioners with an innovative view of e-learning as a lifelong learning tool for scholars in both academic and professional spheres.

Advanced Methodologies and Technologies in Digital Marketing and Entrepreneurship - Khosrow-Pour, D.B.A., Mehdi 2018-11-09

As businesses aim to compete internationally, they must be apprised of new methods and technologies to improve their digital marketing strategy in order to remain ahead of their competition. Trends in entrepreneurship that drive consumer engagement and business initiatives, such as social media marketing, yields customer retention and positive feedback. *Advanced Methodologies and Technologies in Digital Marketing and Entrepreneurship* provides information on emerging trends in business innovation, entrepreneurship, and marketing strategies. While highlighting challenges such as successful social media interactions and consumer engagement, this book explores valuable information within various business environments and industries such as e-commerce, small and medium enterprises, hospitality and tourism management, and customer relationship management. This book is an ideal source for students, marketers, social media marketers, business managers, public relations professionals, promotional coordinators, economists, hospitality industry professionals, entrepreneurs, and researchers looking for relevant information on new methods in digital marketing and entrepreneurship.

Enterprise and Organizational Modeling and Simulation - Joseph Barjis 2015-10-12

This book constitutes the refereed proceedings of the 11th International Workshop on Enterprise and Organizational Modeling and Simulation, EOMAS 2015, held at CAiSE 2015, in June 2015 in Stockholm, Sweden. EOMAS was founded with the purpose to become a forum among researchers and practitioners to share their research and practical findings by encouraging the dissemination of research results under a more generic umbrella called enterprise engineering, which encompasses internal factors ranging from organizational complexity to intricacy of business processes and sophistication in workflows as well as external factors and uncertainties such as competition, politics, or the emergence of innovative technologies. The 15 papers presented in this volume were carefully reviewed and selected from 28 submissions. They were organized in topical sections named: enterprise conceptual modeling and simulation; enterprise modeling formal foundation; and enterprise optimization.

Advances in Enterprise Engineering I - Jan Dietz 2008-06-10

The expectation for the future of the 21st century enterprise is complexity and agility. In this digital age, business processes are scattered not only through the labyrinth of their own enterprises, but also across different enterprises, and even beyond the national boundaries. An evidence of this is the growing phenomenon of business process outsourcing. Increasing competition, higher customer demands, and emerging technologies require swift adaptation to the changes. To understand, design, and engineer a modern enterprise (or an enterprise network) and its interwoven business processes, an engineering and systematic approach based on sound and rigorous theories and methodologies is necessary. Along with

that, a paradigm shift seems to be needed for addressing these issues adequately. An appealing candidate is to look at an enterprise and its business processes as a social system. In its social setting, an enterprise and its business processes represent actors with certain authorities and assigned roles, who assume certain responsibilities in order to provide a service to its environment. The need for this paradigm shift along with the complexity and agility of modern enterprises, gives inspiration for the emerging discipline of Enterprise Engineering. For the study of this socio-technical phenomenon, the prominent tools of Modeling and Simulation play a significant role. Both (conceptual) modeling and simulation are widely used for understanding, analyzing, and engineering an enterprise (its organization and business processes).

Workflow Patterns - Nick Russell 2016-02-26

A comprehensive guide to well-known workflow patterns: recurrent, generic business process constructs, described from the control-flow, data, and resource perspectives. The study of business processes has emerged as a highly effective approach to coordinating an organization's complex service- and knowledge-based activities. The growing field of business process management (BPM) focuses on methods and tools for designing, enacting, and analyzing business processes. This volume offers a definitive guide to the use of patterns, which synthesize the wide range of approaches to modeling business processes. It provides a unique and comprehensive introduction to the well-known workflow patterns collection—recurrent, generic constructs describing common business process modeling and execution scenarios, presented in the form of problem-solution dialectics. The underlying principles of the patterns approach ensure that they are independent of any specific enabling technology, representational formalism, or modeling approach, and thus broadly applicable across the business process modeling and business process technology domains. The authors, drawing on extensive research done by the Workflow Patterns Initiative, offer a detailed introduction to the fundamentals of business process modeling and management; describe three major pattern catalogs, presented from control-flow, data, and resource perspectives; and survey related BPM patterns. The book, a companion to the authoritative Workflow Patterns website, will be an essential resource for both academics and practitioners working in business process modeling and business process management.

Modern Business Process Automation - Arthur H. M. ter Hofstede 2009-11-18

The field of Business Process Management (BPM) is marred by a seemingly endless sequence of (proposed) industry standards. Contrary to other fields (e.g., civil or electronic engineering), these standards are not the result of a widely supported consolidation of well-understood and well-established concepts and practices. In the BPM domain, it is frequently the case that BPM vendors opportunistically become involved in the creation of proposed standards to exert or maintain their influence and interests in the field. Despite the initial fervor associated with such standardization activities, it is no less frequent that vendors either choose to drop their support for standards that they earlier championed on an opportunistic basis or elect only to partially support them in their commercial offerings. Moreover, the results of the standardization processes themselves are a concern. BPM standards tend to deal with complex concepts, yet they are never properly defined and all-too-often not informed by established research. The result is a plethora of languages and tools, with no consensus on concepts and their implementation. They also fail to provide clear direction in the way in which BPM standards should evolve. One can also observe a dichotomy between the “business” side of BPM and its “technical” side. While it is clear that the application of BPM will fail if not placed in a proper business context, it is equally clear that its application will go nowhere if it remains merely a motivational exercise with schemas of business processes hanging on the wall gathering dust.

Advanced Web Technologies and Applications - Jeffrey Xu Yu 2004-04-05

The Asia-Pacific region has emerged in recent years as one of the fastest growing regions in the world in the use of Web technologies as well as in making significant contributions to WWW research and development. Since the first Asia-Pacific Web conference in 1998, APWeb has continued to provide a forum for researchers, professionals, and industrial practitioners from around the world to share their rapidly evolving knowledge and to report new advances in WWW technologies and applications. APWeb 2004 received an overwhelming 386 full-paper submissions, including 375 research papers and 11 industrial papers from 20 countries and regions: A-

ustralia, Canada, China, France, Germany, Greece, Hong Kong, India, Iran, Japan, Korea, Norway, Singapore, Spain, Switzerland, Taiwan, Turkey, UK, USA, and Vietnam. Each submission was carefully reviewed by three members of the program committee. Among the 386 submitted papers, 60 regular papers, 24 short papers, 15 poster papers, and 3 industrial papers were selected to be included in the proceedings. The selected papers cover a wide range of topics including Web services, Web intelligence, Web personalization, Web query processing, Web mining, text mining, data mining and knowledge discovery, XML database and query processing, workflow management, E-commerce, data rehousing, P2P systems and applications, Grid computing, and networking. The paper entitled “Towards Adaptive Probabilistic Search in Unstructured P2P Systems”, co-authored by Linhao Xu, Chenyun Dai, Wenyuan Cai, Shuigeng Zhou, and Aoying Zhou, was awarded the best APWeb 2004 student paper.

Enterprise Engineering and Integration: Building International Consensus - Kurt Kosanke 2012-12-06

ICEIMT '97 is the second International Conference on Enterprise Integration and Modeling Technology. Like the first, it is the main event of a European-US initiative on building consensus in enterprise engineering and integration - supported in Europe by Esprit and in the USA by DOC/NIST. These proceedings contain papers presented at the conference and at five international workshops preceding the conference. The workshops addressed integration issues related to people and organization, metrics and standardization, applications, fundamentals and principles, and users and vendors. The conference papers present points of view of users, vendors, and researchers, the current state of research and development worldwide, and the needs to be identified and summarized in project proposals.

The Practice of Enterprise Modeling - Ulrich Frank 2014-11-07

This volume constitutes the proceedings of the 7th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2014 in Manchester, UK. The focus of the PoEM conference series is on advances in the practice of enterprise modeling through a forum for sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 16 full and four short papers accepted were carefully reviewed and selected from 39 submissions. They reflect different topics of enterprise modeling including business process modeling, enterprise architecture, investigation of enterprise modeling methods, requirements engineering, and specific aspects of enterprise modeling.

Advanced Analytics in Mining Engineering - Ali Soofastaei 2022-03-27

In this book, Dr. Soofastaei and his colleagues reveal how all mining managers can effectively deploy advanced analytics in their day-to-day operations - one business decision at a time. Most mining companies have a massive amount of data at their disposal. However, they cannot use the stored data in any meaningful way. The powerful new business tool - advanced analytics enables many mining companies to aggressively leverage their data in key business decisions and processes with impressive results. From statistical analysis to machine learning and artificial intelligence, the authors show how many analytical tools can improve decisions about everything in the mine value chain, from exploration to marketing. Combining the science of advanced analytics with the mining industrial business solutions, introduce the “Advanced Analytics in Mining Engineering Book” as a practical road map and tools for unleashing the potential buried in your company’s data. The book is aimed at providing mining executives, managers, and research and development teams with an understanding of the business value and applicability of different analytic approaches and helping data analytics leads by giving them a business framework in which to assess the value, cost, and risk of potential analytical solutions. In addition, the book will provide the next generation of miners - undergraduate and graduate IT and mining engineering students - with an understanding of data analytics applied to the mining industry. By providing a book with chapters structured in line with the mining value chain, we will provide a clear, enterprise-level view of where and how advanced data analytics can best be applied. This book highlights the potential to interconnect activities in the mining enterprise better. Furthermore, the book explores the opportunities for optimization and increased productivity offered by better interoperability along the mining value chain - in line with the emerging vision of creating a digital mine with much-enhanced capabilities for modeling, simulation, and the use of digital twins - in line with leading “digital” industries.

Advances in E-Engineering and Digital Enterprise Technology - Kai Cheng 2004-10-15

e-Engineering and digital enterprise technology are becoming the catalysts and prime enablers for the most radical changes in industry since the industrial revolution. Advances in e-Engineering and Digital Enterprise Technology includes international papers from experts and practitioners in industry and academia providing an information exchange on all aspects of engineering and management. Providing significant contributions from practitioners, researchers, educators, and end-users, the reader will find information on the latest innovations and techniques, including, e-Engineering systems e-supply chains and e-logistics Web based CAD/CAM/CAPP Virtual and collaborative engineering Web based modelling and simulations Mass customization and customer driven engineering Tele-operation and tele-robotics. On-line education and industrial training Vital reading for leading-edge system developers, researchers, innovators, and early adopters within industry, government, and academia who are in search of excellence.

New Perspectives on Information Systems Modeling and Design - Rosado da Cruz, António Miguel 2018-11-09

Information modeling plays an important role in every level of the enterprise information system's architecture. Modeling allows organizations to adapt and become more efficient, helping top managers and engineers outline tactics to reach strategic objectives, understand organizational needs, and design information systems that are aligned with business goals. *New Perspectives on Information Systems Modeling and Design* is an essential reference source that discusses organizational adaptation through the integration of new information technologies into existing processes and underlying supporting applications. Featuring research on topics such as application integration, change management, and mobile process activities, this book is ideally designed for managers, researchers, system developers, entrepreneurs, graduate-level students, business professionals, information system engineers, and academicians seeking coverage on emerging technological developments and practical solutions for system modeling and design.

Advances in Ergonomics of Manufacturing: Managing the Enterprise of the Future - Christopher Schlick 2016-07-26

This book discusses the latest advances in people-centered design, operation, and management of broadly defined advanced manufacturing systems and processes. It reports on human factors issues related to various research areas such as intelligent manufacturing technologies, web-based manufacturing services, digital manufacturing worlds, and manufacturing knowledge support systems, as well as other contemporary manufacturing environments. The book covers an extensive range of applications of human factors in the manufacturing industry: from work design, supply chains, evaluation of work systems, and social and organization design, to manufacturing systems, simulation and visualization, automation in manufacturing, and many others. Special emphasis is given to computer aided manufacturing technologies supporting enterprises, both in general and in the manufacturing industry in particular, such as knowledge-based systems, virtual reality, artificial intelligence methods, and many more. Based on the AHFE 2016 International Conference on Human Aspects of Advanced Manufacturing, held on July 27-31, 2016, in Walt Disney World®, Florida, USA, the book provides readers with a timely snapshot of the enterprises of the future and a set of cutting-edge technologies and methods for building innovative, human-centered, and computer-integrated manufacturing systems.

Advancement of Intelligent Production - E. Usui 2016-07-29

As we move towards the 21st century, industries are compelled to turn from "high productivity and high precision" to "more intelligent and more human-oriented technology". This volume presents the existing state of the art of production/precision engineering and illuminates areas in which future work may proceed.

5th International Conference On Digital Enterprise Technology - -

Advances in Enterprise Engineering IV - Antonia Albani 2010-05-30

This book constitutes the proceedings of the 6th International Workshop on Cooperation and Interoperability, Architecture and Ontology (CIAO! 2010), held at the DESRIST 2010 conference in St. Gallen, Switzerland, on June 4, 2010. The 6 papers included in the book were carefully reviewed and selected from 13 submissions. The topics covered are Enterprise Ontology, Organizational Modeling, and System Development.

Advanced Information Systems Engineering - Jolita Ralyté 2012-07-16

This book constitutes the refereed proceedings of the 24th International Conference on Advanced Information Systems Engineering, CAiSE 2012, held in Gdansk, Poland, in June 2012. The 42 revised full papers, 2 full-length invited papers and 4 short tutorial papers, were carefully reviewed and selected from 297 submissions. The contributions have been grouped into the following topical sections: business process model analysis; service and component composition; language and models; system variants and configuration; process mining; ontologies; requirements and goal models; compliance; monitoring and prediction; services; case studies; business process design; feature models and product lines; and human factors.

Global Perspectives on Design Science Research - Robert Winter 2010-05-14

This book constitutes the refereed proceedings of the 5th International Conference on Global Perspectives on Design Science Research, DERIST 2010, held in St. Gallen, Switzerland, in June 2010. The 35 revised full papers presented together with 10 revised short papers were carefully reviewed and selected from 80 submissions. The papers are organized in topical sections on organising design research, reflecting design science research, design research techniques, design and context, design and organisation, design and information, design research exemplars, design and behaviour, designing collaboration, as well as design and requirements engineering.

The Evolution of Conceptual Modeling - Roland Kaschek 2011-02-04

Conceptual modeling represents a recent approach to creating knowledge. It has emerged in response to the computer revolution, which started in the middle of the 20th century. Computers, in the meantime, have become a major knowledge media. Conceptual modeling provides an answer to the difficulties experienced throughout the development of computer applications and aims at creating effective, reasonably priced, and sharable knowledge about using computers in business. Moreover, it has become evident that conceptual modeling has the potential to exceed the boundaries of business and computer usage. This state-of-the-art survey originates from the International Seminar on the Evolution of Conceptual Modeling, held in Dagstuhl Castle, Germany, in April 2008. The major objective of this seminar was to look into conceptual modeling from a historical perspective with a view towards the future of conceptual modeling and to achieve a better understanding of conceptual modeling issues in several different domains of discourse, going beyond individual (modeling) projects. The book contains 14 chapters. These were carefully selected during two rounds of reviewing and improvement from 26 presentations at the seminar and are preceded by a detailed preface providing general insights into the field of conceptual modeling that are not necessarily discussed in any of the chapters but nevertheless aid in conceptualizing the inner structure and coherence of the field. The chapters are grouped into the following three thematic sections: the evolution of conceptual modeling techniques; the extension of conceptual modeling to a service-oriented, peer-to-peer, or Web context; and new directions for conceptual modeling.

The Agile Virtual Enterprise - H. T. Goranson 1999

Introduces the emerging concept of the agile virtual organization and provides a metric to help executives assess organizations by its many important criteria.

Advances in Enterprise Engineering III - Antonia Albani 2009-06-04

In the era of continuous changes in internal organizational settings and external business environments - such as new regulations and business opportunities - modern enterprises are subject to extensive research and study. For the understanding, design, and engineering of modern enterprises and their complex business processes, the discipline of enterprise engineering requires sound engineering principles and systematic approaches based on rigorous theories. Along with that, a paradigm shift seems to be needed for addressing these issues adequately. The main paradigm shift is the consideration of an enterprise and its business processes as a social system. In its social setting, an enterprise and its business processes represent actors with certain authorities and assigned roles, who assume certain responsibilities in order to provide a service to its environment. Second to that, a paradigm shift is to look at an enterprise as an artifact purposefully designed for a certain mission and goal. The need for this paradigm shift, along with the complexity and agility of modern enterprises, gives inspiration for the emerging discipline of enterprise engineering that requires development of new theories and methodologies. To this end, the prominent

methods and tools of modeling and simulation play a significant role. Both (conceptual) modeling and simulation are widely used for understanding, analyzing, and engineering an enterprise (its organization and business processes).

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.

Advances in Cognitive Information Systems - Lidia Ogiela 2012-01-15

The development of computer science is now so rapid that we, the readers, increasingly receive technology news about new solutions and applications which very often straddle the border between the real and the virtual worlds. Computer science is also the area in which cognitive science is witnessing a renaissance, because its combination with technical sciences has given birth to a broad scientific discipline called cognitive informatics. And it is this discipline which has become the main theme of this monograph, which is also to serve as a kind of guide to cognitive informatics problems. This book is the result of work on systems for the cognitive analysis and interpretation of various data. The purpose of such an analytical approach is to show that for an in-depth analysis of data, the layers of semantics contained in these sets must be taken into account. The interdisciplinary nature of the solutions proposed means that the subject of cognitive systems forming part of cognitive informatics becomes a new challenge for the research and application work carried out. The authors of this monograph hope that it will guide Readers on an interesting and accurate journey through the intricacies of information and cognitive science.

Advances in Enterprise Engineering XI - David Aveiro 2017-04-18

This book constitutes the proceedings of the 7th Enterprise Engineering Working Conference, EEWC 2017, held in Antwerp, Belgium, in May 2017. EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions, focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders, scientists as well as practitioners, interested in making Enterprise Engineering a reality. The 12 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 40

submissions. They were organized in topical sections named: formalisms; standards and laws; business processes; normalized systems and evolvability; ontologies; and organization design.

The CHORCH Approach - Andreas Schönberger 2012

The establishment and implementation of cross-organizational business processes is an implication of today's market pressure for efficiency gains. In this context, Business-To-Business integration (B2Bi) focuses on the information integration aspects of business processes. A core task of B2Bi is providing adequate models that capture the message exchanges between integration partners. Following the terminology used in the SOA domain, such models will be called choreographies in the context of this work. Despite the enormous economic importance of B2Bi, existing choreography languages fall short of fulfilling all relevant requirements of B2Bi scenarios. Dedicated B2Bi choreography standards allow for inconsistent outcomes of basic interactions and do not provide unambiguous semantics for advanced interaction models. In contrast to this, more formal or technical choreography languages may provide unambiguous modeling semantics, but do not offer B2Bi domain concepts or an adequate level of abstraction. Defining valid and complete B2Bi choreography models becomes a challenging task in the face of these shortcomings. At the same time, invalid or underspecified choreography definitions are particularly costly considering the organizational setting of B2Bi scenarios. Models are not only needed to bridge the typical gap between business and IT, but also as negotiation means among the business users of the integration partners on the one hand and among the IT experts of the integration partners on the other. Misunderstandings between any two negotiation partners potentially affect the agreements between all other negotiation partners.

Advances in Enterprise Engineering V - Antonia Albani 2011-05-04

This book constitutes the proceedings of the first Enterprise Engineering Working Conference (EEWC), held in Antwerp, Belgium, May 16-17, 2011. EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share the belief that dealing with these challenges requires rigorous and scientific solutions, focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders, scientists as well as practitioners, interested in making Enterprise Engineering a reality. The 8 papers presented were carefully reviewed and selected for inclusion in the book. EEWC 2011 had 24 submissions of which 8 were accepted for publication. The topics of the papers encouraged active participation in interesting discussions and the exchange of ideas, and stimulated future cooperation among the participants. This made EEWC a real 'working conference' contributing to the further development of Enterprise Engineering as a mature discipline. The topics covered include designing organizations with DEMO, combining DEMO with other methods, and studies in enterprise architecture.