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Model-Driven Design Using Business Patterns
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Handbook of Research on Innovations in Database Technologies and Applications
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Enterprise, Business-Process and Information Systems Modeling
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Design and Use Patterns of Adaptability in Enterprise Systems
Enterprise Information Systems: Concepts, Methodologies, Tools and Applications
Innovation and Future of Enterprise Information Systems
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Enterprise Information Systems

Model-Driven Design Using Business Patterns
Continuous improvements in digitized practices have created opportunities for businesses to develop more streamlined processes. This not only leads to higher success in day-to-day production, but it increases the overall success of businesses. Enterprise Information Systems and the Digitalization of Business Functions is a key resource on the latest advances and research for a digital agenda in the business world. Highlighting multidisciplinary studies on data modeling, information systems, and customer relationship management, this publication is an ideal reference source for professionals, researchers, managers, consultants, and university students interested in emerging developments for business process management.

Data-Driven Optimization and Knowledge Discovery for an Enterprise Information System
This book constitutes the refereed proceedings of the 21st International Conference on Advanced Information Systems Engineering, CAISE 2009, held in Amsterdam, The Netherlands, on June 8-12, 2009. The 36 papers presented in this book together with 6 keynote papers were carefully reviewed and selected from 230 submissions. The topics covered are model driven engineering, conceptual modeling, quality and data integration, goal-oriented requirements engineering, requirements and architecture, service orientation, Web service orchestration, value-driven modeling, workflow, business process modeling, and requirements engineering.

Advances in Enterprise Engineering VIII
This book constitutes the refereed proceedings of the four workshops that were organized in conjunction with the International Conference on Business Information Systems, BIS 2010, which took place in Berlin, Germany, May 3-5, 2010. The 33 papers presented were carefully reviewed and selected from 74 submissions. In addition, the volume includes the invited keynote for the LIT workshop. The topics covered are applications and economics of knowledge-based technologies (ILOG), business and IT alignment (BITA), information logistics (ILOG), and legal information systems (LIT).

Enterprise Information Systems
This volume presents the revised and peer reviewed contributions of the "ERP Future 2012" conference held in Salzburg/Austria on November 11th - 12th, 2012?. The conference is a platform for research in ERP systems and closely related topics like business processes, business intelligence, and enterprise information systems in general. To master the challenges of ERP comprehensively, the ERP Future 2012 Research conference accepted contributions both with a business focus as well as with an IT focus to consider enterprise resource planning from various viewpoints. This combination of business and IT aspects is a unique characteristic of the conference and of this volume that resulted in valuable contributions with high practical impact.

Selected Readings on Information Technology and Business Systems Management
This book constitutes extended and revised papers from the 19th International Conference on Enterprise Information Systems, ICEIS 2017, held in Porto, Portugal, in April 2017. The 28 papers presented in this volume were carefully reviewed and selected for inclusion in this book from a total of 318 submissions. They were organized in topical sections named: databases and information systems integration; artificial intelligence and decision support systems; information systems analysis and specification; software agents and internet computing; human-computer interaction; and enterprise architecture.

Intelligent Knowledge-Based Systems
The rapid development of new Information Infrastructure combined with the increased user needs in specific areas of Information Technology (mostly related to Web applications) has created the need for designing new modeling techniques more innovative and targeted on specific areas of Information Systems in order to successfully model the rapidly changed environment, along with the newly introduced concepts and user requirements. Therefore, this book aims to

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introduce readers to a number of innovative Information modeling techniques. It is titled "Innovative Information Systems Modelling Techniques" and includes 9 chapters. The focus is on the exploration and coverage of the innovations of recently presented modeling techniques and their applicability on the Information Systems' modeling.

Research and Practical Issues of Enterprise Information Systems "This book investigates the creation and implementation of enterprise information systems, covering a wide array of topics such as flow-shop scheduling, information systems outsourcing, ERP systems utilization, Dietz transaction methodology, and advanced planning systems"--Provided by publisher.

On the Move to Meaningful Internet Systems: OTM 2009 Workshops Enterprise Information Systems: A Pattern Based Approach, 3e, by Dunn/Cherrington/Hollander presents a pattern-based approach to designing enterprise information systems with a particular emphasis on the enterprise-wide database. This edition is built on the idea that a separation between accounting information systems and management information systems should not exist. We believe patterns help people see the "big picture" of enterprises more clearly and therefore help design better systems. We believe you cannot identify anything that we need to account for that we do not also need to manage; nor can we identify anything we need to manage that we do not also need to account for. In this edition, we will show how a well-designed REA-based Accounting Information System is the Enterprise Information System.

Advances in Enterprise Information Systems II This book constitutes the refereed proceedings of the 10th International Conference on Business Information Systems, BIS 2007, held in Poznan, Poland in April 2007. Among the issues addressed in the 49 revised full papers presented together with one keynote lecture are business process management, Web services, ontologies, information retrieval, system design, agents and mobile applications, decision support, social issues, specific MIS issues.

Enterprise Information Systems For organizations operating in a modern business environment, adopting the latest information technologies (IT) is of paramount importance. Organizational decision makers are increasingly interested in IT acquisition, constantly seeking the most advanced solutions in order to give their constituents a distinct competitive advantage. **Managing Enterprise Information Technology Acquisitions: Assessing Organizational Preparedness** provides leaders and innovators with research and strategies to make the most of their options involving IT and organizational management approaches. This book will serve as a critical resource for leaders, managers, strategists, and other industry professionals who must be prepared to meet the constant changes in the field of information technologies in order to effectively guide their organizations and achieve their respective goals.

Enterprise Information Systems VI This five-volume set clearly manifests the great significance of these key technologies for the new economies of the new millennium. The discussions provide a wealth of practical ideas intended to foster innovation in thought and, consequently, in the further development of technology. Together, they comprise a significant and uniquely comprehensive reference source for research workers, practitioners, computer scientists, academics, students, and others on the international scene for years to come.

Business Information Systems The purpose of the 7th International Conference on Enterprise Information Systems (ICEIS) was to bring together researchers, engineers and practitioners interested in the advances and business applications of information systems. ICEIS focuses on real world applications, therefore authors were asked to highlight the benefits of Information Technology for industry and services. Papers included in the book are the best papers presented at the conference.

Managing Enterprise Information Technology Acquisitions: Assessing Organizational Preparedness This book provides a comprehensive set of optimization and prediction techniques for an enterprise information system. Readers with a background in operations research, system engineering, statistics, or data analytics can use this book as a reference to derive insight from data and use this knowledge as guidance for production management. The authors identify the key challenges in enterprise information management and present results that have emerged from leading-edge research in this domain. Coverage includes topics ranging from task scheduling and resource allocation, to workflow optimization, process time and status prediction, order admission policies optimization, and enterprise service-level performance analysis and prediction. With its emphasis on the above topics, this book provides an in-depth look at enterprise information management solutions that are needed for greater automation and reconfigurability-based fault tolerance, as well as to obtain data-driven recommendations for effective decision-making.

Global Implications of Modern Enterprise Information Systems: Technologies and Applications "This book aims at identifying potential research problems and issues in the EIS such as Enterprise Resource Planning (ERP), Supply Chain Management (SCM), and Customer Relationship Management (CRM)"--Provided by publisher.

Handbook of Research on Innovations in Database Technologies and Applications "This book provides a wide compendium of references to topics in the field of the databases systems and applications"--Provided by publisher.

Advanced Information Systems Engineering This book contains the refereed proceedings of the 15th International Conference on Business Process Modeling, Development and Support (BPMDs 2014) and the 19th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2014), held together with the 26th International Conference on Advanced Information Systems Engineering (CAISE 2014) in Thessaloniki, Greece, in June 2014. The 20 full papers accepted for BPMDs were selected from 48 submissions and cover a wide spectrum of issues related to business process development, modeling, and support. They are grouped into topical sections on business process modeling as a human-driven process, representing the human perspective of business processes, supporting humans in business processes, variability-enabling process

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models, various models for various process perspectives, and BPMDS in practice. The ten full and three short papers accepted for EMMSAD were chosen from 27 submissions and focus on exploring, evaluating, and enhancing modeling methods and methodologies for the analysis and design of information systems, enterprises, and business processes. They are grouped into sections on conceptual modeling, requirements modeling, business process modeling, goal and language action modeling, enterprise and business modeling, and new approaches.

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

Enterprise Information Systems VII Discusses the technological developments, main issues, challenges, opportunities, and trends impacting every part of small to medium sized enterprises.

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

Enterprise Information Systems II "This book presents useful strategies, techniques, and tools for the successful design, development, and implementation of enterprise information systems"--Provided by publisher.

Business Information Systems Workshops 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.

Enterprise, Business-Process and Information Systems Modeling This book contains the best papers of the Sixth International Conference on Enterprise Information Systems (ICEIS 2004), held in Porto (Portugal) and organized by INSTICC (Institute for Systems and Technologies of Information, Communication and Control) in collaboration with PORTUCALENSE UNIVERSITY, who hosted the event. Following the route started in 1999, ICEIS has become a major point of contact between research scientists, engineers and practitioners on the area of business applications of information systems. This conference has received an increased interest every year, from especially from the international academic community, and it is now one of the world largest conferences in its area. This year, five simultaneous tracks were held, covering different aspects related to enterprise computing, including: "Databases and Information Systems Integration", "Artificial Intelligence and Decision Support Systems", "Information Systems Analysis and Specification", "Software Agents and Internet Computing" and "Human-Computer Interaction". The sections of this book reflect the conference tracks.

Enterprise Information Systems

ENTERprise Information Systems The increasing penetration of IT in organizations calls for an integrative perspective on enterprises and their supporting information systems. MERODE offers an intuitive and practical approach to enterprise modelling and using these models as core for building enterprise information systems. From a business analyst perspective, benefits of the approach are its simplicity and the possibility to evaluate the consequences of modeling choices through fast prototyping, without requiring any technical experience. The focus on domain modelling ensures the development of a common language for talking about essential business concepts and of a shared understanding of business rules. On the construction side, experienced benefits of the approach are a clear separation between specification and implementation, more generic and future-proof systems, and an improved insight in the cost of changes. A first distinguishing feature is the method's grounding in process algebra provides clear criteria and practical support for model quality. Second, the use of the concept of business events provides a deep integration between structural and behavioral aspects. The clear and intuitive semantics easily extend to application integration (COTS software and Web Services). Students and practitioners are the book's main target audience, as both groups will benefit from its practical advice on how to create complete models which combine structural and behavioral views of a system-to-be and which can readily be transformed into code, and on how to evaluate the quality of those models. In addition, researchers in the area of conceptual or enterprise modelling will find a concise overview of the main findings related to the MERODE project. The work is complemented by a wealth of extra material on the author's web page at KU Leuven, including a free CASE tool with code generator, a collection of cases with solutions, and a set of domain modelling patterns that have been developed on the basis of the method's use in industry and government.

Research and Practical Issues of Enterprise Information Systems II Volume 2 This book contains the best papers of the 8th International Conference on Enterprise Information Systems (ICEIS 2006), held in the city of Paphos (Cyprus), organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC) in collaboration with the University of Cyprus, Aristotle University of Thessaloniki and Athens University of Economics and Business. ICEIS has become

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a major point of contact between research scientists, engineers and practitioners in the area of business applications of information systems. This year, five simultaneous tracks were held, covering different aspects related to enterprise computing, including: “Databases and Information Systems Integration,” “Artificial Intelligence and Decision Support Systems,” “Information Systems Analysis and Specification,” “Software Agents and Internet Computing” and “Human–Computer Interaction.” All tracks focus on real world applications and highlight the benefits of Information Systems and Technology for industry and services, thus making a bridge between Academia and Enterprise. Following the success of 2005, ICEIS 2006 received 404 paper submissions from more than 40 countries spanning all continents. In all, 63 papers were published and presented as full papers, i.e., completed work (8 pages in proceedings / 30–min oral presentations), 102 papers reflecting work-in-progress or position papers were accepted for short presentation and another 75 for poster presentation.

Enterprise, Business-Process and Information Systems Modeling Internet-based information systems, the second covering the large-scale integration of heterogeneous computing systems and data resources with the aim of providing a global computing space. Each of these four conferences encourages researchers to treat their respective topics within a framework that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in particular case studies and industrial solutions. Following and expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more “archival” nature of the main conferences with research results in a number of selected and more “avant-garde” areas related to the general topic of Web-based distributed computing. For instance, the so-called Semantic Web has given rise to several novel research areas combining linguistics, information systems technology, and artificial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage. We were glad to see that ten of our earlier successful workshops (ADI, CAMS, EIZN, SWWS, ORM, OnToContent, MONET, SEMELS, COMBEK, IWSSA) re-appeared in 2008 with a second, third or even 7th edition, sometimes by alliance with other newly emerging workshops, and that no fewer than three brand-new independent workshops could be selected from proposals and hosted: ISDE, ODIS and Beyond SAWSDL. Workshop attendees productively mingled with each other and with those of the main conferences, and there was considerable overlap in authors.

Enterprise Information Systems and the Digitalization of Business Functions This three-volume-set (CCIS 219, CCIS 220, and CCIS 221) constitutes the refereed proceedings of the International Conference on ENTERprise Information Systems, CENTERIS 2011, held in Vilamoura, Portugal, in September 2011. The approx. 120 revised full papers presented in the three volumes were carefully reviewed and selected from 180 submissions. The papers are organized in topical sections on knowledge society, EIS adoption and design, EIS implementation and impact, EIS applications, social aspects and IS in education, IT/IS management, telemedicine and imaging technologies, healthcare information management, medical records and business processes, decision support systems and business intelligence in health and social care contexts, architectures and emerging technologies in healthcare organizations, as well as m-health.

Research and Practical Issues of Enterprise Information Systems II Volume 1 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.

Semantic Web for Business: Cases and Applications For many years now Enterprise Information Systems have been critical in helping businesses successfully navigate the global market. The development that started with design and implementation of integrated systems has evolved to incorporate a multitude of perspectives and ideas. The Enterprise Information Systems functionality extends from principally an ERP (Enterprise Resource Planning) system to a portfolio of standard systems including CRM (Customer Relationship Management) systems and SCM (Supply Chain Management) systems. Advances in Enterprise Information Systems II is divided into seven thematic sections, each exploring a distinct topic. In “Concepts in Enterprise Information Systems” the authors present new concepts and ideas for the field. “Cases in Enterprise Information Systems” introduces studies of enterprise information systems in an organizational context. “Business Process Management” is one of the major themes within enterprise information systems and “Designing Enterprise Information Systems” discusses new approaches to the design of processes and system and also deals with how design can be taken as a specific perspective. “Enterprise Information Systems in various domains” features generic studies that contribute to advancing the practical knowledge of the field as well as towards “Global issues of Enterprise Information Systems”. Finally, in “Emerging Topics in Enterprise Information Systems”, new technologies and ideas are explored. Cloud computing in particular seems to be setting the agenda for future research in enterprise information systems. The book will be invaluable to academics and professionals interested in recent developments in the field of enterprise information systems.

Design and Use Patterns of Adaptability in Enterprise Systems This book contains the best papers of the 10th International Conference on Enterprise Information Systems (ICEIS 2008), held in the city of Barcelona (Spain), organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC) in cooperation with AAAI and co-sponsored by WiMC. ICEIS has become a major point of contact between research scientists, engineers and practitioners in the area of business applications of information systems. This year, five simultaneous tracks were held, covering different aspects related to enterprise computing, including: “Databases and Information Systems Integration,” “Artificial Intelligence and Decision Support Systems,” “Information Systems Analysis and Specification,” “Software Agents and Internet Computing” and “Human–Computer Interaction.” All tracks focused on real-world applications and highlighted the benefits of information systems and technology for industry and services, thus making a bridge between academia and enterprise. Following the success of 2007, ICEIS 2008 received 665 paper submissions from more than 40 countries. In all, 62 papers were published and presented as full papers, i.e., completed work (8 pages in proceedings / 30-min oral presentations), and 183 papers, reflecting work-in-progress or position papers, were accepted for short presentation and another 161 for poster presentation.

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Enterprise Information Systems: Concepts, Methodologies, Tools and Applications This book contains substantially extended and revised versions of the best papers from the 13th International Conference on Enterprise Information Systems (ICEIS 2011), held in Beijing, China, June 8-11, 2011. The 27 papers included (plus one invited paper) in this volume were carefully reviewed and selected from 57 full papers presented at the conference (out of 402 submissions). They reflect state-of-the-art research that is often driven by real-world applications, thus successfully relating the academic with the industrial community. The topics covered are: databases and information systems integration, artificial intelligence and decision support systems, information systems analysis and specification, software agents and Internet computing, and human-computer interaction.

Innovation and Future of Enterprise Information Systems This book contains the proceedings of two long-standing workshops: The 10th International Workshop on Business Process Modeling, Development and Support, BPMDS 2009, and the 14th International Conference on Exploring Modeling Methods for Systems Analysis and Design, EMMSAD 2009, held in connection with CAISE 2009 in Amsterdam, The Netherlands, in June 2009. The 17 papers accepted for BPMDS 2009 were carefully reviewed and selected from 32 submissions. The topics addressed by the BPMDS workshop are business and goal-related drivers; model-driven process change; technological drivers and IT services; technological drivers and process mining; and compliance and awareness. Following an extensive review process, 16 papers out of 36 submissions were accepted for EMMSAD 2009. These papers cover the following topics: use of ontologies; UML and MDA; ORM and rule-oriented modeling; goal-oriented modeling; alignment and understandability; enterprise modeling; and patterns and anti-patterns in enterprise modeling.

Enterprise Information Systems

ENTERprise Information Systems, Part I This book shows how to apply pattern ideas in business applications. It presents more than 20 structural and behavioral business patterns that use the REA (resources, events, agents) pattern as a common backbone. The developer working on business frameworks can use the patterns to derive the right abstractions and to design and ensure that the meta-rules are followed by the developers of the actual applications. The application developer can use these patterns to design a business application, to ensure that it does not violate the domain rules, and to adapt the application to changing requirements without the need to change the overall architecture.

Enterprise Information Systems Design, Implementation and Management This volume presents work from the IFIP TC 8 WG 8.9 International Conference on the Research and Practical Issues of Enterprise Information Systems (CONFENIS 2007). Enterprise information systems (EIS) have become increasingly popular. EIS integrate and support business processes across functional boundaries in a supply chain environment. In recent years, more and more enterprises world-wide have adopted EIS such as Enterprise Resource Planning (ERP) for running their businesses.

Social, Managerial, and Organizational Dimensions of Enterprise Information Systems This book constitutes the proceedings of the International Conference on ENTERprise information systems, held Vianna do Castelo, Portugal, in October 2010.

Enterprise Information Systems and Implementing IT Infrastructures: Challenges and Issues This book comprises a set of papers selected from those presented at the fifth « International Conference on Enterprise Information Systems », (ICEIS'2003) held in Angers, France, from 23 to 26 April 2003. The conference was organised by École Supérieure d'Électronique de l'Ouest (ESEO) of Angers, France and the Escola Superior de Tecnologia de Setúbal, Portugal. Since its first edition in 1999, ICEIS focuses on real world applications and aims at bringing together researchers, engineers and practitioners interested in the advances and business applications of information systems. As in previous years, ICEIS'2003 held four simultaneous tracks covering different aspects of enterprise computing: Databases and Information Systems Integration, Artificial Intelligence and Decision Support Systems, Information Systems Analysis and Specification and Software Agents and Internet Computing. Although ICEIS'2003 received 546 paper submissions from over 50 countries, only 80 were accepted as full papers and presented in 30-minutes oral presentations. With an acceptance rate of 15%, these numbers demonstrate the intention of preserving a high quality forum for future editions of this conference. From the articles accepted as long papers for the conference, only 32 were selected for inclusion in this book. Additional keynote lectures, tutorials and industrial sessions were also held during ICEIS'2003, and, for the first time this year, the 1st Doctoral Consortium on Enterprise Information Systems gave PhD students an opportunity to present their work to an international audience of experts in the field of information systems.

Innovative Information Systems Modelling Techniques This book comprises the refereed papers together with the invited keynote papers, presented at the Second International Conference on Enterprise Information Systems. The conference was organised by the School of Computing at Staffordshire University, UK, and the Escola Superior de Tecnologia de Setúbal, Portugal, in cooperation with the British Computer Society and the International Federation for Information Processing, Working Group 8.1. The purpose of this 2nd International Conference was to bring together researchers, engineers and practitioners interested in the advances in and business applications of information systems. The papers demonstrate the vitality and vibrancy of the field of Enterprise Information Systems. The research papers included here were selected from among 143 submissions from 32 countries in the following four areas: Enterprise Database Applications, Artificial Intelligence Applications and Decision Support Systems, Systems Analysis and Specification, and Internet and Electronic Commerce. Every paper had at least two reviewers drawn from 10 countries. The papers included in this book were recommended by the reviewers. On behalf of the conference organising committee we would like to thank all the members of the Programme Committee for their work in reviewing and selecting the papers that appear in this volume. We would also like to thank all the authors who have submitted their papers to this conference, and would like to apologise to the authors that we were unable to include and wish them success next year.

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Enterprise Information Systems This book constitutes the proceedings of the 4th Enterprise Engineering Working Conference (EEWC), held in Funchal, Madeira Island, Portugal, during May 5-8, 2014. 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 13 papers presented were carefully reviewed and selected for inclusion in the book. EEWC 2014 had 42 submissions and accepted 13 for publication. The topics of the presented papers allowed for active participation in interesting discussions and 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. Topics covered include: enterprise engineering in general, the DEMO methodology, the REA ontology, financial applications, business processes management and enterprise simulation.

Enterprise Information Systems This volume presents work from the IFIP TC 8 WG 8.9 International Conference on the Research and Practical Issues of Enterprise Information Systems (CONFENIS 2007). Enterprise information systems (EIS) have become increasingly popular. EIS integrate and support business processes across functional boundaries in a supply chain environment. In recent years, more and more enterprises world-wide have adopted EIS such as Enterprise Resource Planning (ERP) for running their businesses.

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