Volume I

Section I. Fundamental Concepts and Theories

This section serves as the foundation for this exhaustive reference tool by addressing crucial theories essential to the understanding of enterprise information systems. Chapters found within these pages provide an excellent framework in which to position enterprise information systems within the field of information science and technology. Individual contributions provide overviews of the history of enterprise information systems, the impact of information systems on organizations, and overviews on various enterprise information system processes such as enterprise resource planning and decision support systems. Within this introductory section, the reader can learn and choose from a compendium of expert research on the elemental theories underscoring enterprise information systems.

Chapter 1.1. Principles and Experiences: Designing and Building Enterprise Information Systems

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Chapter 1.2. Evolution of Enterprise Resource Planning

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Angappa Gunasekaran, University of Massachusetts—Dartmouth, USA

Chapter 1.3. Exploring Enterprise Information Systems

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Chris Kimble, Euromed Marseille École de Management, France

Chapter 1.4. Enterprise Systems in Small and Medium-Sized Enterprises

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Mohammad A. Rashid, Massey University, New Zealand
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Vamsi Salaka, Penn State University, USA
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Chapter 1.7. Free and Open Source Enterprise Resources Planning

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Chapter 1.8. E-Government and ERP: Challenges and Strategies

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Chapter 1.9. Enterprise Application Integration (EAI)

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Chapter 1.10. Enterprise Tomography: An Efficient Approach for Semi-Automatic Localization of Integration Concepts in VBLAs

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Jorge Marx Gómez, Carl von Ossietzky University Oldenburg, Germany

Chapter 1.11. Enterprise Information System Security: A Life-Cycle Approach

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Mridul Sankar Barik, Jadapur University, India
Anirban Sengupta, Jadavpur University, India

Chapter 1.12. From ERP to Enterprise Service-Oriented Architecture

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Holger Wittges, Technische Universität München, Germany
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Bhuvan Unhelkar, MethodScience.com & University of Western Sydney, Australia

Chapter 2.5. Enterprise Modelling in Support of Organisation Design and Change

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Aysin Rahimifard, Loughborough University, UK
Richard Weston, Loughborough University, UK

Chapter 2.6. The Enterprise Systems Approach

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Chapter 2.7. Designing Data Marts from XML and Relational Data Sources

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Jamel Feki, Mir@cl Laboratory, Faculté des Sciences Economiques et de Gestion, Tunisia
Hanene Ben-Abdallah, Mir@cl Laboratory, Faculté des Sciences Economiques et de Gestion, Tunisia

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David C. Yen, Miami University, USA
Cheng-Chun Chang, National Chung Cheng University, Taiwan

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Carlos León de Mora, University of Seville, Spain
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Stephen Burgess, Victoria University, Australia

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John Loonam, Dublin City University, Ireland
Joe McDonagh, University of Dublin, Trinity College, Ireland

Chapter 7.6. An Object-Oriented Abstraction Mechanism for Generic Enterprise Modeling

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Sergio de Cesare, Brunel University, UK
Emily Di Florido, Brunel University, UK

Chapter 7.7. Integrating Enterprise Systems

Mark I. Hwang, Central Michigan University, USA

Chapter 7.8. Analyzing Diffusion and Value Creation Dimensions of a Business Case of Replacing Enterprise Systems

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Chapter 7.9. Challenges of Data Management in Always-On Enterprise Information Systems

Mladen Varga, University of Zagreb, Croatia

Chapter 7.10. Studying Human Resource Information Systems Implementation using Adaptive Structuration Theory: The Case of HRIS Implementation at Dow Chemical Company

Huub Ruël, University of Twente, The Netherlands, & American University of Beirut, Lebanon

Chapter 7.11. Consequences and Strategic Implications of Networked Enterprise and Human Resources

Ana Isabel Jiménez-Zarco, Open University of Catalonia, Spain
Maria Pilar Martínez-Ruiz, University of Castilla-La Mancha, Spain
Óscar González-Benito, University of Salamanca, Spain
Section VIII. Emerging Trends

This section highlights research potential within the field of enterprise information systems while exploring uncharted areas of study for the advancement of the discipline. Chapters within this section highlight new trends in adaptive information integration, as well as the challenges faced in cross-organizational enterprise resource planning projects. The contributions that conclude this exhaustive, multi-volume set provide emerging trends and suggestions for future research within this rapidly expanding discipline.

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Antonio Trigo, Escola Superior de Tecnologia e Gestão de Oliveira do Hospital, Portugal
João Barroso, Instituto Superior de Engenharia do Porto, Portugal

Chapter 8.2. Next-Generation Enterprise Systems
Charles Møller, Aalborg University, Denmark

Chapter 8.3. ERP Trends, Opportunities, and Challenges: A Focus on the Gulf Region in the Middle East
Maha Shakir, Zayed University, UAE

Chapter 8.4. The Future of ERP and Enterprise Resource Management Systems
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Chapter 8.5. Next-Generation IT for Knowledge Distribution in Enterprises
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Gabriel Valerio, Tecnologico de Monterrey, Mexico
Jose-Luis Aguirre, Tecnologico de Monterrey, Mexico

Chapter 8.6. Sizing ERP Implementation Projects: An Activity-Based Approach
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Rob Kusters, Open University Netherland, The Netherlands & Eindhoven University of Technology, The Netherlands
Fred Heemstra, Open University Netherland, The Netherlands & KWD Result Management, The Netherlands
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Chapter 8.9. Enterprise System in the German Manufacturing Mittelstand
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