Table of Contents

Preface .............................................................................................................................................. xxiii

Acknowledgment .............................................................................................................................. xxxi

Section 1
Models, Applications and Solutions

Chapter 1
The Enterprise Systems Approach ........................................................................................................ 1
Andrew Targowski, Western Michigan University, USA

Chapter 2
Modeling Software Development Processes ...................................................................................... 31
Gerhard Chroust, Kepler University Linz, Austria
Marco Kuhrmann, Technische Universität München, Germany
Erwin Schoitsch, Austrian Research Centers - ARC, Austria

Chapter 3
People-Oriented Enterprise Information Systems ............................................................................ 63
Giorgio Bruno, Politecnico di Torino, Italy

Chapter 4
Doing Business on the Globalised Networked Economy: Technology and Business Challenges
for Accounting Information Systems ............................................................................................. 81
Adamantios Koumpis, ALTEC S.A., Greece
Nikos Protogeros, University of Macedonia, Greece

Chapter 5
Recent Developments in Supplier Selection and Order Allocation Process .................................... 93
Ezgi Aktar Demirtas, Eskisehir Osmangazi University, Turkey
Ozden Ustun, Dumlupinar University, Turkey
Chapter 6
Complex Information Technology-Intensive Firms: A New Paradigmatic Firm-Theoretical Imperative! (Or a Pragmatically Impractical Interpretation of the Nature of the Virtualized Firm?).............................................................................................................................................. 113
   Jonatan Jelen, Parsons The New School for Design, USA
   Marko Kolakovic, Ekonomski Fakultet Zagreb, Croatia

Chapter 7
A Methodology for the Auditing of Technological Knowledge Management........................................ 134
   Enrique Paniagua Arís, Universidad de Murcia, Spain
   Belén López Ayuso, Universidad Católica San Antonio de Murcia, Spain

Chapter 8
E-CRM and CMS Systems: Potential for More Dynamic Businesses ............................................. 157
   Silvia Brito Fernandes, University of Algarve, Portugal

Chapter 9
Integrating Production Planning and Control Business Processes .................................................. 172
   Rui M. Lima, University of Minho, Portugal

Chapter 10
Environments for Virtual Enterprise Integration ..................................................................................... 194
   Maria Manuela Cruz-Cunha, Polytechnic Institute of Câvado and Ave, Portugal
   Goran D. Putnik, University of Minho, Portugal

Section 2
Supporting Technologies and Tools

Chapter 11
Tool-Support for Software Development Processes .............................................................................. 213
   Marco Kuhrmann, Technische Universität München, Germany
   Georg Kalus, Technische Universität München, Germany
   Gerhard Chroust, Kepler University Linz, Austria

Chapter 12
   Jan Aalmink, Carl von Ossietzky Universität Oldenburg, Germany
   Jorge Marx Gómez, Carl von Ossietzky University Oldenburg, Germany
Chapter 13
Workflow as a Tool in the Development of Information Systems ....................................................... 252
José Luis Leiva, University of Malaga, Spain
José Luis Caro, University of Malaga, Spain
Antonio Guevara University of Malaga, Spain
Maria de los Ángeles Arena, University of Veracruz, Mexico

Chapter 14
Designing Open-Source OMIS Environment for Virtual Teams to Support Inter-Enterprise Collaboration ........................................................................................................................................... 272
Kam Hou Vat, University of Macau, Macau

Chapter 15
Information Systems Planning in Web 2.0 Era: A New Model Approach .................................................. 289
José Sousa, IBMC – Instituto de Biologia Molecular e Celular, Portugal

Section 3
Managerial and Organizational Issues

Chapter 16
Identifying and Managing Stakeholders in Enterprise Information System Projects .................................. 313
Albert Boonstra, University of Groningen, The Netherlands

Chapter 17
Industrialism: Reduction Either Complexity Patterns .................................................................................. 329
Rinaldo C. Michelini, PMARlab, University of Genova, Italy
Roberto P. Razzoli, PMARlab, University of Genova, Italy

Chapter 18
Enterprise Modelling in Support of Organisation Design and Change ..................................................... 352
Joseph Ajaefobi, Loughborough University, UK
Aysin Rahimifard, Loughborough University, UK
Richard Weston, Loughborough University, UK

Chapter 19
Communication in the Manufacturing Industry: An Empirical Study of the Management of Engineering Drawing in a Shipyard ........................................................................................................... 379
Sigmund Aslesen, Fafo Institute for Labour and Social Research, Norway University of Oslo, Norway
Svein Erik Moen, Fafo Institute for Labour and Social Research, Norway
Chapter 20
Preconditions for Requisite Holism of Information Bases for the Invention-Innovation Process Management

Matjaž Mulej, University of Maribor, Slovenia
Vojko Potočan, University of Maribor, Slovenia
Zdenka Ženko, University of Maribor, Slovenia

Chapter 21
Exploring Enterprise Information Systems

Malihe Tabatabaie, University of York, UK
Richard Patge, University of York, UK
Chris Kimble, Euromed Marseille École de Management, France

Section 4
Critical Success Factors and Case Studies

Chapter 22
Enterprise Information Systems: Two Case Studies

Hui-Lien Tung, Paine College, USA
Tina Marshall-Bradley, Paine College, USA
Joseph Wood, US Army, USA
Donald A. Sofge, Naval Research Laboratory, USA
James Grayson, Augusta State University, USA
Margo Bergman, Michael E. DeBakey VA Medical Center, USA
W.F. Lawless, Paine College, USA

Chapter 23
Modern ICT Technologies in Business Administration: The Case of the DERN Project for a Digital Enterprise Research Network

Adamantios Koumpis, ALTEC S.A., Greece
Vasiliki Moumtzi, ALTEC S.A., Greece

Chapter 24
Motivations and Trends for IT/IS Adoption: Insights From Portuguese Companies

João Varajão, Centro Algoritmi, Portugal and University of Trás-os-Montes e Alto Douro, Portugal
Antonio Trigo, Escola Superior de Tecnologia e Gestão de Oliveira do Hospital, Portugal
João Barroso, Instituto Superior de Engenharia do Porto, Portugal
Chapter 25
Semantic Web Based Integration of Knowledge Resources for Expertise Finding

Valentina Janev, The Mihajlo Pupin Institute, Serbia
Jovan Duduković, The Mihajlo Pupin Institute, Serbia
Sanja Vraneš, The Mihajlo Pupin Institute, Serbia

Compilation of References

About the Contributors

Index