# Table of Contents

Foreword............................................................................................................................................ xvi

Preface............................................................................................................................................. xviii

Acknowledgment........................................................................................................................... xxv

## PART 1
Information Systems Research Concepts

### Section 1.1
Methodology

**Chapter I**
Conducting Research in Information Systems: An Epistemological Journey......................... 1
   
   *Panagiotis Kanellis, Athens University of Economics and Business, Greece*
   *
   *Thanos Papadopoulos, University of Warwick, UK*

### Chapter II
Understanding Ontology and Epistemology in Information Systems Research...................... 35
   
   *Francis Chia Cua, University of Otago, New Zealand & Otago Polytechnic, New Zealand*
   *
   *Tony C. Garrett, Korea University, Republic of Korea*

### Section 1.2
Guidelines

**Chapter III**
A Grounded Theory Study of Enterprise Systems Implementation: Lessons Learned from the Irish Health Services................................................................. 58
   
   *John Loonam, Dublin City University, Ireland*
   *
   *Joe McDonagh, University of Dublin, Trinity College, Ireland*
Chapter IV
A Critical Theory Approach to Information Technology Transfer to the Developing World and a Critique of Maintained Assumptions in the Literature

Khalid Al-Mabrouk, University of Southern Queensland, Australia
Kieran James, University of Southern Queensland, Australia

Chapter V
The Challenge of Transdisciplinarity in Information Systems Research: Towards an Integrative Platform

João Porto de Albuquerque, University of Sao Paulo, Brazil
Edouard J. Simon, University of Hamburg, Germany
Jan-Hendrik Wahoff, University of Hamburg, Germany
Arno Rolf, University of Hamburg, Germany

Section 1.3
Epistemology

Chapter VI
A Guide to Non-Disclosure Agreements for Researchers Using Public and Private Sector Sources

Paul D. Witman, California Lutheran University, USA
Kapp L. Johnson, California Lutheran University, USA

Chapter VII
Applied Multi-Case Research in a Mixed-Method Research Project: Customer Configuration Updating Improvement

Slinger Jansen, Utrecht University, The Netherlands
Sjaak Brinkkemper, Utrecht University, The Netherlands

Chapter VIII
Historical Research in Information System Field: From Data Collection to Theory Creation

Erja Mustonen-Ollila, Lappeenranta University of Technology (LUT), Finland
Jukka Heikkonen, Helsinki University of Technology, Finland

PART 2
Information Systems Research Applications

Section 2.1
Software Development

Chapter IX
A Multi-Methodological Approach to Study Systems Development in a Software Organization

Paivi Ovaska, South Karelia University of Applied Sciences, Finland
Chapter X
Usability Evaluation Meets Design: The Case of bisco Office™.................................................. 183

Judith Symonds, AUT University, New Zealand
Andrew Connor, AUT University, New Zealand

Chapter XI
An Analysis-Form of Soft Systems Methodology for Information Systems Maintenance .......... 197

Ivan Ka-Wai Lai, Macau University of Science and Technology, China
Joseph M. Mula, University of Southern Queensland, Australia

Chapter XII
Design Science: A Case Study in Information Systems Re-Engineering........................................ 210

Raul Valverde, Concordia University, Canada
Mark Toleman, University of Southern Queensland, Australia
Aileen Cater-Steel, University of Southern Queensland, Australia

Section 2.2
ICT Adoption

Chapter XIII
Analyzing the Use of Information Systems in Logistics Industry.................................................... 225

Shaligram Pokharel, Nanyang Technological University, Singapore
Carman Ka Man Lee, Nanyang Technological University, Singapore

Chapter XIV
Empirical Investigation of Critical Success Factors for Implementing Business Intelligence Systems in Multiple Engineering Asset Management Organisations........................................ 247

William Yeoh, University of South Australia, Australia
Jing Gao, University of South Australia, Australia
Andy Koronios, University of South Australia, Australia

Chapter XV
Electronic Data Interchange (EDI) Adoption: A Study of SMEs in Singapore.............................. 272

Ping Li, ROC Consulting International, Singapore
Joseph M. Mula, University of Southern Queensland, Australia

Section 2.3
Web Services

Chapter XVI
Towards Google Earth: A History of Earth Geography................................................................. 294

Hatem F. Halaoui, Haigazian University, Lebanon
Chapter XVII
Empirical Studies for Web Effort Estimation .......................................................................................... 311
  
  Sergio Di Martino, Università di Salerno, Italy & Università degli Studi di Napoli
  “Federico II”, Italy
  Filomena Ferrucci, Università di Salerno, Italy
  Carmine Gravino, Università di Salerno, Italy

Section 2.4
  e-Marketing

Chapter XVIII
Mobile Marketing ........................................................................................................................................... 328
  
  Kazuhiro Takeyasu, Osaka Prefecture University, Japan

Chapter XIX
The Retaliatory Feedback Problem: Evidence from eBay and a Proposed Solution ......................... 342
  
  Ross A. Malaga, Montclair State University, USA

Compilation of References ........................................................................................................................ 350

About the Contributors .............................................................................................................................. 385

Index .......................................................................................................................................................... 393