# Table of Contents

Preface ................................................................................................................................................... xvii

Chapter 1
Implementing E-Procurement in Public Healthcare: The Knowledge Management Issue .................. 1
   Andrea Resca, Luiss “Guido Carli” University, Italy
   Tommaso Federici, University of Tuscia, Italy

Chapter 2
Perspectives on Adoption of Electronic Resources for Use in Clinical Trials................................. 19
   Maricarmen D. Planas-Silva, Pennsylvania State University – Harrisburg, USA
   Rhoda C. Joseph, Pennsylvania State University- Harrisburg, USA

Chapter 3
Decentralisation and Health Systems Performance in Developing Countries:
Impact of “Decision Space” on Primary Health Care Delivery in Nigeria.......................................... 29
   Adebusoye A. Anifalaje, London School of Economics and Political Science, UK

Chapter 4
Wireless Technology and Clinical Influences in Healthcare Setting: An Indian Case Study .............. 55
   Abdul Hafeez Baig, University of Southern Queensland, Australia
   Raj Gururajan, University of Southern Queensland, Australia

Chapter 5
Factors Affecting the Adoption of ICT for Health Service Delivery in Namibia:
The Role of Functional Literacy and Policy Implications................................................................. 75
   Blessing M. Maumbe, Eastern Kentucky University, USA
   Meke I. Shivute, Polytechnic of Namibia, Namibia
   Vesper T. Owei, Cape Peninsula University of Technology, Republic of South Africa

Chapter 6
Information Completeness: A Qualitative Analysis of Indoor Air Quality (IAQ)............................... 100
   Gary Hackbarth, Northern Kentucky University, USA
   John McQuade, J.P. Morgan, USA
Chapter 7
Preparing Healthcare Organizations for New IT Systems Adoption:
A Readiness Framework .................................................................................................................... 124
Robert Breas, National IT Institute for Healthcare (NICTIZ), The Netherlands
Matthew Waritay Guah, Claflin University, USA

Chapter 8
Physician Characteristics and EMR Attitudes ............................................................................. 138
David Meinert, Missouri State University, USA
Dane K. Peterson, Missouri State University, USA

Chapter 9
Mobile Solutions for Managing Health Care ............................................................................. 150
Esko Alasaarela, University of Oulu, Finland
Ravi Nemana, 360Fresh, Inc., USA
Steven DeMello, University of California - Berkeley, USA
Nick S. Oliver, Imperial College, UK
Masako Miyazaki, University of Alberta, Canada

Chapter 10
Multi-Dimensional Criteria for the Evaluation of E-Health Services ........................................ 172
Alaywany Hamid, Brunel University, UK
Alshawi Sarmad, Brunel University, UK

Chapter 11
Confirmatory Factor Analysis to Establish Determinants of Wireless Technology in the Indian Healthcare .................................................................................................................. 190
Raj Gururajan, University of Southern Queensland, Australia
Tiana Gurney, University of Southern Queensland, Australia
Abdul Hafeez-Baig, University of Southern Queensland, Australia

Chapter 12
Adoption of Mobile Technology by Public Healthcare Doctors: A Developing Country Perspective ................................................................................................................................. 209
Nesaar Banderker, University of Cape Town, South Africa
Jean-Paul Van Belle, University of Cape Town, South Africa

Chapter 13
Telepractice: A 21st Century Model of Health Care Delivery ................................................... 226
Thomas W. Miller, University of Connecticut, USA
Jennifer A. Wood, VA Texas Valley Coastal Bend Health Care System, USA
Chapter 14
Clinical Continuity by Integrated Care ................................................................. 241
   Torben Larsen, University of Southern Denmark, Denmark

Chapter 15
SMART: Mobile Patient Monitoring in an Emergency Department .................. 261
   Esteban Pino, Universidad de Concepción, Chile
   Dorothy Curtis, Massachusetts Institute of Technology, USA
   Thomas Stair, Brigham and Women's Hospital, USA
   Lucila Ohno-Machado, University of California San Diego, USA

Chapter 16
A Transaction Cost Economics Assessment of a Diabetes Self-Management Solution .......... 276
   Indrit Troshani, University of Adelaide Business School, Australia
   Nilmini Wickramasinghe, RMIT University, Australia
   Steve Goldberg, INET International Inc., Canada

Chapter 17
A Review of Wireless Sensor Networks for Wellness Monitoring
in Residential Aged Care .................................................................................... 294
   Leroy Lai Yu Chan, University of New South Wales, Australia
   Branko George Celler, University of New South Wales, Australia
   James Zhaonan Zhang, University of New South Wales, Australia
   Nigel Hamilton Lovell, University of New South Wales, Australia

Chapter 18
Nursing Homes and E-Health .............................................................................. 311
   Shuyan Xie, University of Alabama, USA
   Yang Xiao, University of Alabama, USA
   Hsiao-Hwa Chen, National Cheng Kung University, Taiwan

Chapter 19
Medical Data Visualization via a Pervasive Multi-Agent Platform........................ 331
   Antonio Coronato, ICAR-CNR, Italy
   Luigi Gallo, ICAR-CNR, Italy
   Guiseppe De Pietro, ICAR-CNR, Italy
Chapter 20
Seamless Access to Healthcare Folders with Strong Privacy Guarantees ................................. 345
Tristian Allard, University of Versailles & INRIA Rocquencourt, France
Nicolas Anciaux, INRIA Rocquencourt, France
Luc Bouganim, INRIA Rocquencourt, France
Phillippe Pucheral, University of Versailles & INRIA Rocquencourt, France
Romuald Thion, INRIA Grenoble, France

Compilation of References ........................................................................................................... 372

About the Contributors ................................................................................................................. 418

Index............................................................................................................................................... 429