Table of Contents

Preface .................................................................................................................................................. xx

Section 1
Applications of Online Social Media in Healthcare

Chapter 1
Twitter and Its Role in Health Information Dissemination: Analysis of the Micro-Blog Posts of Health-Related Organisations ................................................................. 1

Dan Dumbrell, The University of Sydney, Australia
Robert Steele, The University of Sydney, Australia

Chapter 2
Informatics in Social Services: Research, Developments, and Outcomes from the Finnish Perspective ......................................................................................................................... 18

Sirpa Kuusisto-Niemi, University of Eastern Finland, Finland
Kaija Saranto, University of Eastern Finland, Finland
Sari Rissanen, University of Eastern Finland, Finland

Chapter 3
A Social Network Framework to Explore Healthcare Collaboration ................................................. 44

Uma Srinivasan, Capital Markets Cooperative Research Centre, Australia
Shahadat Uddin, The University of Sydney, Australia

Chapter 4
Privacy Perceptions of Older Adults when Using Social Media Technologies ................................. 67

Dan Dumbrell, The University of Sydney, Australia
Robert Steele, The University of Sydney, Australia

Section 2
User Acceptance of Health Information Systems

Chapter 5
Perceived Importance of User Expectations from Healthcare Information Systems ......................... 84

Güney Gürsel, Gülhane Military Medical Academy, Turkey
Chapter 6
Don’t Leave Me Untouched: Considering Emotions in Personal Alarm Use and Development........ 96
Sonja Pedell, Swinburne University of Technology, Australia
Antonio A. Lopez-Lorca, Swinburne University of Technology, Australia
Tim Miller, The University of Melbourne, Australia
Leon Sterling, Swinburne University of Technology, Australia

Chapter 7
User Behavioral Intention toward Using Mobile Healthcare System ................................................ 128
Pantea Keikhosrokiani, School of Computer Sciences, Universiti Sains Malaysia, Malaysia
Norlia Mustaffa, School of Computer Sciences, Universiti Sains Malaysia, Malaysia
Nasriah Zakaria, Medical Education Department, College of Medicine, King Saud University, Saudi Arabia & School of Computer Sciences, Universiti Sains Malaysia
Ahmad Suhaime Baharudin, School of Computer Sciences, Universiti Sains Malaysia, Malaysia

Section 3
Emerging Technologies for Healthcare

Chapter 8
Sleep Disorder Diagnosis: An Analytical Approach ............................................................... 145
Jacqueline Blake, University of the Sunshine Coast, Australia
Don Kerr, University of the Sunshine Coast, Australia

Chapter 9
Supporting Physicians in the Detection of the Interactions between Treatments of Co-Morbid Patients .................................................................................................................................................. 165
Luca Piovesan, Università degli Studi di Torino, Italy
Gianpaolo Molino, Azienda Ospedaliera San Giovanni Battista, Italy
Paolo Terenziani, Università del Piemonte Orientale “Amedeo Avogadro”, Italy

Chapter 10
Radio Frequency Identification Technology as an Analytical Lens and Solution in Hospitals: A Novel Approach in BPR/BPM ............................................................................................................ 194
Chandana Unnithan, Deakin University, Australia
Bardo Fraunholz, Deakin University, Australia

Chapter 11
Use and Reuse of Electronic Health Records: Building Information Systems for Improvement of Health Services ...................................................................................................................... 212
Michele Ceruti, University of Turin, Italy
Silvio Geminatti, Catholic University “Sacro Cuore”, Italy & Statistics and Epidemiological Research, Italy
Roberta Siliquini, University of Turin, Italy
Chapter 12
The E-Learning Experience in Medical School of Casablanca ......................................................... 227
  Ihssane Lembachar, Hassan II University, Morocco
  Samir Diouny, Chouaib Doukkali University, Morocco
  Zineb Serhier, Hassan II University, Morocco
  Mohammed Bennani Othmani, Hassan II University, Morocco

Chapter 13
Knowledge Discovery and Data Mining Applications in the Healthcare Industry:
A Comprehensive Study .................................................................................................................. 241
  Iman Barazandeh, Iran University of Science and Technology, Iran & Islamic Azad University, Mahshahr Branch, Iran
  Mohammad Reza Gholamian, Iran University of Science and Technology, Iran

Section 4
Applications of Informatics for Aged Care and Chronic Diseases

Chapter 14
Using Narrative with Avatars and Robots to Enhance Elder Care ................................................... 264
  Lundy Lewis, Southern New Hampshire University, USA

Chapter 15
The Role of Knowledge Management (KM) in Aged Care Informatics: Crafting the Knowledge Organization .......................................................................................................................... 284
  Margee Hume, University of Southern Queensland, Australia
  Craig Hume, Griffith University, Australia
  Paul Johnston, Care Systems Pty Ltd, Australia
  Jeffrey Soar, University of Southern Queensland, Australia
  Jon Whitty, University of Southern Queensland, Australia

Chapter 16
Ontology for Data Quality and Chronic Disease Management: A Literature Review ....................... 303
  Alireza Rahimi, University of New South Wales, Australia & Isfahan University of Medical Sciences, Iran
  Siaw-Teng Liaw, University of New South Wales, Australia
  Pradeep Kumar Ray, University of New South Wales, Australia
  Jane Taggart, University of New South Wales, Australia
  Hairong Yu, University of New South Wales, Australia
Chapter 17
A Reconfigurable Supporting Connected Health Environment for People with Chronic Diseases ... 332
Abbes Amira, University of the West of Scotland, UK & Qatar University, Qatar
Naeem Ramzan, University of the West of Scotland, UK
Christos Grecos, University of the West of Scotland, UK
Qi Wang, University of the West of Scotland, UK
Pablo Casaseca-de-la-Higuera, University of the West of Scotland, UK
Zeeshan Pervez, University of the West of Scotland, UK
Xinheng Wang, University of the West of Scotland, UK
Chunbo Luo, University of the West of Scotland, UK

Compilation of References ................................................................................................................353

About the Contributors .....................................................................................................................399

Index .............................................................................................................................................412