# Table of Contents

## Special Issue of Selected Papers from ICEH 2012

### Guest Editorial Preface

iv  Payam Hanafizadeh, Allameh Tabataba’i University, Tehran, Iran

### Research Articles

1  Medical Robotics: State-of-the-Art Applications and Research Challenges  
Alireza Mirbagheri, RCBTR, Tehran University of Medical Sciences, Tehran, Iran  
Mina Arab Baniasad, School of Mechanical Engineering, Sharif University of Technology, Tehran, Iran  
Farzam Farahmand, RCBTR, Tehran University of Medical Sciences, Tehran, Iran & School of Mechanical Engineering, Sharif University of Technology, Tehran, Iran  
Saeed Behzadipour, School of Mechanical Engineering, Sharif University of Technology, Tehran, Iran  
Alireza Ahmadian, RCBTR, Tehran University of Medical Sciences, Tehran, Iran

15  A Content-Based Approach to Medical Images Retrieval  
Mana Tarjoman, Department of Engineering, Islamic Azad University Abhar Branch, Abhar, Iran  
Emad Fatehmizadeh, Department of Electrical Engineering, Sharif University of Technology, Tehran, Iran  
Kambiz Badie, Research Institute for ICT, Tehran, Iran

28  A Novel Graphical-Oriented Framework for Capturing Data within Clinical Information Systems  
Farzad Jahanji, Medical Informatics Group, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, Iran  
Mehranghadjoudlo, Medical Informatics Group, School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, Iran  
Medhi Amirchakhmaghi, Shariati Hospital, Tehran University of Medical Sciences, Tehran, Iran

41  Proposing a Business Model in Healthcare Industry: E-Diagnosis  
Nastaran Hajihedyari, Faculty of Management, University of Tehran, Tehran, Iran  
Seyed Behnam Khakbaz, Faculty of Management, University of Tehran, Tehran, Iran  
Hamidreza Farhadi, Faculty of Management, University of Tehran, Tehran, Iran

58  Implication of E-Health and IT Governance on Healthcare Expenditure: An Econometrics Approach (Case Study Middle East Countries)  
Seyed Shahabeddin Sadr, Tehran University of Medical Sciences, Tehran, Iran  
Seyed Mohammad Hossein Sadr, Department of Management and Accounting, University of Allame Tabataba’i (ATU), Tehran, Iran  
Yazdan Goudarzi Farahani, Faculty of Economics, University of Tehran, Tehran, Iran

70  The Business Values of Patient Knowledge Management (PKM) in the Healthcare Industry  
Mohammad Soltani Delgosha, Social Science and Economy Faculty, Alzahra University, Tehran, Iran  
Ali Amiri Ojaki, Faculty of Management, University of Tehran, Tehran, Iran  
Hamidreza Farhadi, Faculty of Management, University of Tehran, Tehran, Iran

### Copyright

The International Journal of Healthcare Information Systems and Informatics (IJHISI) (ISSN 1555-3396; eISSN1555-340X), Copyright © 2013 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global or the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global

IJHISI is currently listed or indexed in: ACM Digital Library; Bacon’s Media Directory; Burrelle’s Media Directory; Cabell’s Directories; Compendex (Elsevier Engineering Index); CSA Illumina; DBLP; Gale Directory of Publications & Broadcast Media; GetCited; Google Scholar; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; Norwegian Social Science Data Services (NSD); SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich’s Periodicals Directory