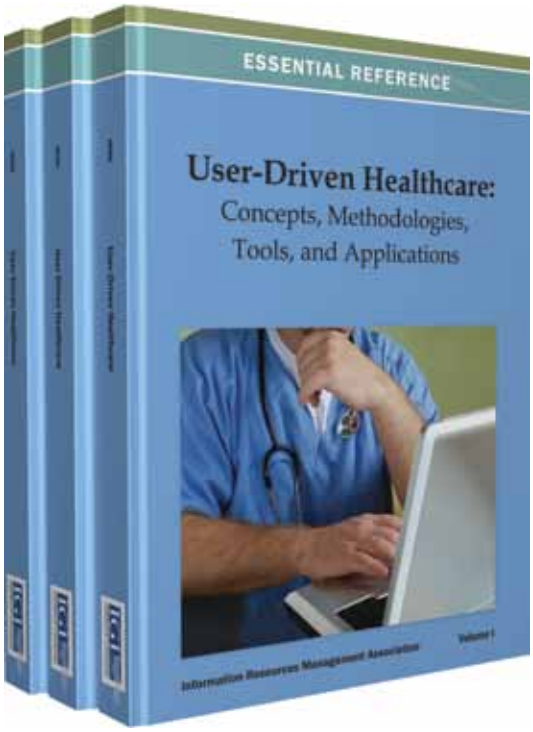
An Excellent Addition to Your Library!

Released: January 2013

User-Driven Healthcare: Concepts, Methodologies, Tools, and Applications



ISBN: 9781466627703; © 2013; 1512 pp.
Print: US $2,495.00 | Perpetual: US $3,745.00 | Print + Perpetual: US $4,990.00

Pre-pub Discount:*
Print: US $2,370.00 | Perpetual: US $3,560.00
* Pre-pub price is good through one month after publication date.

IRMA International (IRMA International)

User-Driven Healthcare: Concepts, Methodologies, Tools, and Applications provides a global discussion on the practice of user driven learning in healthcare and connected disciplines and its influence on learning through clinical problem solving. This book brings together different perspectives for researchers and practitioners to develop a comprehensive framework of user-driven healthcare.

Topics Covered:

- Clinical Practice
- Conventional and Alternative Medicine
- Electronic Healthcare Records
- Healthcare Information Systems
- Information Communication Technology
- Telemedicine
- User Driven Healthcare

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

IGI GLOBAL
DISSEMINATOR OF KNOWLEDGE
www.igi-global.com

Publishing Academic Excellence
at the Pace of Technology Since 1988

Section 1: Fundamental Concepts and Theories

Chapter 1
The User Driven Learning Environment
Biswas Rakesh (People's College of Medical Sciences, India)
Sturmberg Joachim (Monash University, Australia & The University of Newcastle, Australia)
Martin Carmel M. (Trinity College Dublin, Ireland)

Chapter 2
Information Technology and Resistance to Public Sector Reforms:
Bernardi Roberta (University of Warwick, UK)

Chapter 3
Electronic Health Record:
Kamath Janine R. A. (Mayo Clinic, USA)
Donahoe-Anshus Amerett L. (Mayo Clinic, USA)

Chapter 4
The Promises and Challenges of Health Information Technology
Gugerty Brian (Gugerty Consulting, LLC, USA)
Maranda Michael J. (Evaluation Researcher, Belgium)

Chapter 5
Patient Centered Medicine and Technology Adaptation
Harnett Brett (University of Cincinnati, USA)

Chapter 6
Technology as a Bridge between Health Care Systems and Older Adults
Morrow Daniel (University of Illinois at Urbana-Champaign, USA)
Chin Jessie (University of Illinois at Urbana-Champaign, USA)

Chapter 7
The Health Informatics Professional
Lui Keith (The University of Western Australia, Australia)

Chapter 8
Supporting Family-Based Care for Aged Patients with Chronic Illness
Nguyen Lemai (Deakin University, Australia)

Chapter 9
Human-Centered Design for Health Information Technology:
Tang Charlotte (University of Calgary, Canada)
Carpendale Sheelagh (University of Calgary, Canada)

Chapter 10
Online Health Communities and Health Literacy:
Willis Erin (University of Memphis, USA)
Wang Ye (University of Missouri – Kansas City, USA)
Rodgers Shelly (Missouri School of Journalism, USA)

Chapter 11
E-Health and Digital Inclusion
Gibson Lorna (University of Dundee, UK)
Sloan David (SchoUniversity of Dundee, UK)
Moncur Wendy (University of Aberdeen, UK)

Chapter 12
ICTS and Their Role in Health Promotion:
Sabone Motshedisi B. (University of Botswana, Botswana)
Mogobe Keitshokile D. (University of Botswana, Botswana)
Sabone Tiny G. (University of Botswana, Botswana)

Chapter 13
Information Security Standards for Health Information Systems:
Kotsonis Evangelos (Adacom SA, Greece)
Eliakis Stelios (Athens University of Economics and Business, Greece)

Section 2: Tools and Technologies

Chapter 14
RFID Applications in E-Healthcare
Watfa Mohamed K. (University of Wollongong in Dubai, UAE)
Kaur Manprabhjot (University of Wollongong Dubai, UAE)
Daruwala Rashida Firoz (University of Wollongong Dubai, UAE)

Chapter 15
Generating Indicators for Diagnosis of Fault Levels by Integrating Information from Two or More Sensors
Zhao Xiaomin (University of Alberta, Canada)
Zuo Ming J (University of Alberta, Canada)
Moghaddass Ramin (University of Alberta, Canada)

Chapter 16
E-Health Communities for Learning Healthy Habits:
Smedberg Åsa (Stockholm University, Sweden)

Chapter 17
A Centralized Real-Time E-Healthcare System for Remote Detection and Prediction of Epileptic Seizures
Pham Dung V. (The University of Melboune, Australia)
Halgamuge Malka N. (The University of Melbourne, Australia)
Nirmalathas Thas (The University of Melbourne, Australia)
Moran Bill (The University of Melbourne, Australia)

Chapter 18
Overview of the ISO/IEEE11073 Family of Standards and their Applications to Health Monitoring
Escayola J. (University of Zaragoza, Spain)
Trigo J.D. (University of Zaragoza, Spain)
Martínez I. (University of Zaragoza, Spain)
Martínez-Espronceda M. (Public University of Navarre, Spain)
Aragüés A. (University of Zaragoza, Spain)
Sancho D. (University of Zaragoza, Spain)
Led S. (Public University of Navarre, Spain)
Serrano L. (Public University of Navarre, Spain)
García J. (University of Zaragoza, Spain)

Chapter 19
Electronic Health Record Implementation in the United States Healthcare Industry:
D'Abundo Michelle Lee (University of North Carolina at Wilmington, USA)

Chapter 20
e-Health Technologies in Home Care Nursing:
Remmers Hartmut (University of Osnabrück, Germany)
Hülsken-Giesler Manfred (University of Osnabrück, Germany)

Chapter 21
Advanced Video Distribution for Wireless E-Healthcare Systems
Zvikhachevskaya Anna (Lancaster University, UK)
Mihaylova Lyudmila (Lancaster University, UK)

Chapter 22
Cyber Physical Security Solutions for Pervasive Health Monitoring Systems
Venkatasubramanian Krishna K. (University of Pennsylvania, USA)
Nabar Sidharth (University of Washington, USA)
Gupta Sandeep K. S. (Arizona State University, USA)
Poovendran Radha (University of Washington, USA)

Chapter 23
Using Biometrics to Secure Patient Health Information
Backherms Dennis (Capella University, USA)

Chapter 24
Mapping Input Technology to Ability
Garzo Ainara (Fatronik Foundation, Spain)
Carmien Stefan P. (Fatronik Foundation, Spain)
Madina Xabier (XMadina Tecnología Adaptativa, S.L., Spain)

Chapter 25
A Simple Web-Based Image Database System for Facilitating Medical Care in Dermatological Clinics
Toda Takeshi (Nihon University, Japan)
Chen PaoMin (Nihon University, Japan)
Ozaki Shinya (Nihon University, Japan)
Fujita Kazunobu (Fujita Parkside Clinic, Japan)
Ideguchi Naoko (Teikyo Heisei University, Japan)

Chapter 26
Grid for Post Operative Care through Wireless Sensor Networks
Chowdhry N.P (Mehran University of Engineering and Technology, Pakistan)
Ashraf Adnan (Mehran University of Engineering and Technology, Pakistan)
Chowdhry B.S (Mehran University of Engineering and Technology, Pakistan)
Baloch A.K (Mehran University of Engineering and Technology, Pakistan)
Ansari A.W (University of Sindh, Pakistan)
De Meer H. (University of Passau, Germany)

Chapter 29
"Developed in the South":
Shaw Vincent (University of Oslo, Norway & Health Information Systems Program, South Africa)
Braa Jorn (University of Oslo, Norway)

Section 3: Frameworks and Methodologies

Chapter 27
Identifying the Essential Design Requirements for Usable E-Health Communities in Mobile Devices
Mendoza-González Ricardo (Instituto Tecnológico de Aguascalientes, Mexico)
Martin Miguel Vargas (University of Ontario Institute of Technology, Canada)
Rodríguez-Martínez Laura C. (Instituto Tecnológico de Aguascalientes, Mexico)

Chapter 28
User Diversity as a Challenge for the Integration of Medical Technology into Future Smart Home Environments
Wilkowska Wiktoria (RWTH Aachen University, Germany)
Ziefle Martina (RWTH Aachen University, Germany)

Chapter 30
End-User Participation in Health IT Development:
Høstgaard Anna Marie Balling (Aalborg University, Denmark)

Chapter 31
Resolving and Mediating Ambiguous Contexts in Pervasive Environments
Roy Nirmalya (Institute for Infocomm Research, Singapore)
Das Sajal K. (University of Texas at Arlington, USA)
Julien Christine (University of Texas at Austin, USA)

Chapter 32
Developing Community Ontologies in User Driven Healthcare
Fitzpatrick Jane (University of the West of England, UK)
Ako Willie (University of Bristol, UK)

Chapter 33
Ubiquitous Information Therapy Service through Social Networking Libraries:
Gavgani Vahideh Zarea (Tabriz University of Medical Sciences, Iran)

Chapter 34
Design and Implementation of Mobile-Based Technology in Strengthening Health Information System:
Purkayastha Saptarshi (Norwegian University of Science & Technology, Norway)

Chapter 35
Health Information Exchange for Improving the Efficiency and Quality of Healthcare Delivery
Shi Jing (North Dakota State University, USA)
Upadhyaya Sudhindra (North Dakota State University, USA)
Erdem Ergin (North Dakota State University, USA)

Chapter 36
The Protocols of Privileged Information Handling in an E-Health Context:
Fernando Juanita (Monash University, Australia)

Chapter 37
European E-Health Framework:
Karamagkioli Korinna Zoi (Alexandra University Hospital, Greece)
Karamagioli Evika (Gov2u, Greece)

Chapter 38
E-Health Business Models Prototyping by Incremental Design
Monguet Josep Ma. (Universitat Politècnica de Catalunya, Spain)
Huerta Eduardo (Universitat Politècnica de Catalunya, Spain)
Fernández Joaquín (Universitat Politècnica de Catalunya, Spain)
Ferruzca Marco (Metropolitan Autonomus University, Mexico)
Badillo Susana (Metropolitan Autonomus University, Mexico)

Chapter 39
A Strategic Approach to e-Health Interoperability Using e-Government Frameworks
Papadopoulos Thanos (University of Southampton, UK)
Angelopoulos Spyros (The University of Warwick, UK)
Kitsios Fotis (University of Macedonia, Greece)

Chapter 40
Developing a Competitive City through Healthy Decision-Making
Gudes Ori (Queensland University of Technology, Australia & Griffith University, Australia)
Kendall Elizabeth (Griffith University, Australia)
Yigitcanlar Tan (Queensland University of Technology, Australia)
Han Jung Hoon (The University of New South Wales, Australia)
Pathak Virendra (Queensland University of Technology, Australia)

Section 4: Cases and Applications

Chapter 41
Key Health Information Systems Outsourcing Issues from Six Hospital Cases
Lin Chad (Curtin University, Australia)
Huang Yu-An (National Chi Nan University, Taiwan)
Li Chien-Fa (Puli Veterans Hospital, Taiwan)
Jalleh Geoffrey (Curtin University, Australia)

Chapter 42
An E-Health System for Promoting Wellbeing in the Elderly:
Botella Cristina (Universidad Jaume I, Spain & CIBER Fisiopatología Obesidad y Nutrición (CB06/03), Instituto Carlos III, Spain)
Baños Rosa M. (Universidad de Valencia, Spain & CIBER Fisiopatología Obesidad y Nutrición (CB06/03), Instituto Carlos III, Spain)
Etchemendy Ernestina (CIBER Fisiopatología Obesidad y Nutrición (CB06/03), Instituto Carlos III, Spain)
Castilla Diana (Universidad Jaume I, Spain & CIBER Fisiopatología Obesidad y Nutrición (CB06/03), Instituto Carlos III, Spain)
García-Palacios Azucena (Universidad Jaume I, Spain & CIBER Fisiopatología Obesidad y Nutrición (CB06/03), Instituto Carlos III, Spain)
Alcañiz Mariano (CIBER Fisiopatología Obesidad y Nutrición (CB06/03), Instituto Carlos III, Spain & University Research Institute for Bioengineering and Human Centered Technology (UPV), Spain)

Chapter 43
Australian Patient Organizations:
Dugdale Anni (University of Canberra, Australia)

Chapter 44
Rural E-Health Infrastructure Development
Zalzala Ali (Hikma Group Ltd, UAE)
Chia Stanley (Vodafone Group R&D, USA)
Zalzala Laura (Bucharest Academy of Economic Studies, Romania)
Sahu Subrat (Pandit Deendayal Petroleum University, India)
Vaghasiya Suresh (Pandit Deendayal Petroleum University, India)
Karimi Ali (Trans Technology Group, USA)

Chapter 45
An Overview of E-Health Development in Australia
Teoh Say Yen (RMIT University, Australia)
Singh Mohini (RMIT University, Australia)
Chong Josephine (Auckland University of Technology, New Zealand)

Chapter 46
Brazilian Occupational Therapy Perspective about Digital Games as an Inclusive Resource to Disabled People in Schools
Siqueira Suzana Rocha (Special Needs Healthcare Institution (FAENOL) of Nova Lima City, Brazil)
Rocha Eliane Cristina de Freitas (Pontifícia Universidade Católica de Minas Gerais, Brazil)
Nery Marcelo Souza (Pontifícia Universidade Católica de Minas Gerais, Brazil)

Chapter 47
E-Health Knowledge Management by Australian University Students
Usher Wayne (Griffith University, Australia)
San Too Lay (Griffith University, Australia)

Chapter 48
An Exploration of the Experiences of Migrant Women:
Fitzpatrick Jane (Independent Researcher, UK)

Chapter 49
The Development of the English National Health Information Infrastructure
Constantinides Panos (Frederick University, Cyprus)

Chapter 50
The Development of a Regional Health Information Infrastructure in Greece
Constantinides Panos (Frederick University, Cyprus)

Chapter 51
Case Studies in Customization of E-Health Services
Kardaras Dimitris (Athens University of Economics and Business, Greece)
Karakostas Bill (City University, London, UK))

Chapter 52
From Idea to Use:
Enquist Henrik (Independent Scholar, Sweden)

Chapter 53
Patients with a Spinal Cord Injury Inform and Co-Construct Services at a Spinal Cord Rehabilitation Unit
Sliedrecht Susan (Auckland Spinal Rehabilitation Unit, New Zealand)
Kotzé Elmarie (University of Waikato, New Zealand)

Chapter 54
Stomodeum to Proctodeum:
Bhattacharya Paramartha (Consultant Physician, India)
Asanga Amar Puri (Yoga Consultant, Nepal)
Biswas Rakesh (People's College of Medical Sciences, India)

Section 5: Issues and Challenges

Chapter 55
Conceiving Community Knowledge Records as e-Governance Concerns in Wired Healthcare Provision
Kam Hou VAT (University of Macau, Macau)

Chapter 56
Identity Management and Audit Trail Support for Privacy Protection in E-Health Networks
Peyton Liam (University of Ottawa, Canada)
Hu Jun (University of Ottawa, Canada)

Chapter 57
Evaluation Considerations for E-Health Systems
Kastania Anastasia N. (Biomedical Research Foundation of the Academy of Athens, Greece & Athens University of Economics and Business, Greece)

Chapter 58
Privacy and Security in e-Health Applications
Petković Milan (Philips Research Europe and Eindhoven University of Technology, The Netherlands)
Ibraimi Luan (University of Twente, The Netherlands)

Chapter 59
Foundations of Trust for E-Health
Corritore Cynthia L. (Creighton University, USA)
Kracher Beverly (Creighton University, USA)
Wiedenbeck Susan (Drexel University, USA)
Marble Robert (Creighton University, USA)

Chapter 60
Legal Issues in E-Healthcare Systems
Sarabdeen Jawahitha (University of Wollongong in Dubai, UAE)

Chapter 61
Representing Organizational Conservation of Information:
Stachura Max E. (Medical College of Georgia, USA)
Wood Joseph (Dwight D. Eisenhower Army Medical Center, USA)
Angjellari-Dajci Fjorentina (Paine College, USA)
Grayson James M. (Augusta State University, USA)
Astapova Elena V. (Medical College of Georgia, USA)
Tung Hui-Lien (Paine College, USA)
Sofge Donald (Naval Research Laboratory, USA)
Lawless W.F. (Paine College, USA)

Chapter 62
Implementation Issues on a National Electronic Health Record Network
McGaha John (Capella University, USA)

Chapter 63
Caught in the Web:
Bauer Keith A. (Jefferson College of Health Sciences, USA)

Chapter 64
Interprofessional Care and Health Care Complexity:
Johnson Kerry (University of Ontario Institute of Technology, Canada)
Tashiro Jayshiro (University of Ontario Institute of Technology, Canada)

Chapter 65
Reframing Dichotomies:
Hoshi Kei (Umeå University, Sweden)

Chapter 66
Ethical Guidelines for the Quality Assessment of Healthcare
Chattopadhyay Amit (National Institutes of Health, USA)
Malhotra Khushdeep (National Institutes of Health, USA)
Chatterjee Sharmila (George Washington University, USA)

Chapter 67
Unlearning and Relearning in Online Health Education
Sarbadhikari Suptendra Nath (CAL2CAL Institute, India)

Chapter 68
The Concept of Interoperability for AAL Systems
Kolovou Lamprini T. (University of Patras, Greece)
Lymberopoulos Dimitrios (University of Patras, Greece)

Section 6: Emerging Trends

Chapter 69
Privacy Considerations for Electronic Health Records
Kuehler Mary (University of Tulsa, USA)
Schimke Nakeisha (University of Tulsa, USA)
Hale John (University of Tulsa, USA)

Chapter 70
Secure Exchange of Electronic Health Records
Flores Alejandro Enrique (University of Wollongong, Australia)
Win Khin Than (University of Wollongong, Australia)
Susilo Willy (University of Wollongong, Australia)

Chapter 71
A Medical Data Trustworthiness Assessment Model
Alhaqbani Bandar (Queensland University of Technology, Australia)
Fidge Colin J. (Queensland University of Technology, Australia)

Chapter 72
Usability Engineering and E-Health
Haniff David (Pervasive Technology Lab (CIC), UK)

Chapter 73
Dynamic Stress Management:
Smedberg Åsa (Stockholm University, Sweden)
Sandmark Hélène (Mälardalen University, Sweden)

Chapter 74
Will Comparative Effectiveness Research Lead to Healthcare Rationing?
Brown Mary (Capella University, USA)

Chapter 75
Health 2.0 and Medicine 2.0:
Moumtzoglou Anastasius (P&A Kyriakou Children's Hospital, Greece)

Chapter 76
Potential of WEB Based Learning in Managing for the Sustained Success of a Healthcare Organization Based on IMPROHEALTH® Project
Zgodavová Kristina (Technical University of Košice, Slovakia)
Bourek Aleš (Masaryk University, Czech Republic)

Chapter 77
The Evolving Role of Pharmacoinformatics in Targeting Drug-Related Problems in Clinical Oncology Practice
Yap Kevin Yi-Lwern (Institute of Digital Healthcare, WMG, University of Warwick, UK)

Chapter 78
Emerging Trends in User-Driven Healthcare:
Victan Handan (University of Eastern Kentucky, USA)

Chapter 79
The Emerging Hispanic Use of Online Health Information in the United States:
Germaine-McDaniel Nicole St. (Angelo State University, USA)

Chapter 80
E-Discovery and Health Care IT:
Vasudevan Vasupradha (Management Sciences and System, USA)
Rao H.R. (Management Sciences and System, USA)

Chapter 81
The Nationwide Health Information Network:
Adeyemo Omotunde (TEKsystems, USA)

Order Your Copy Today!

Name: _____

Organization: _____

Address: _____

City, State, Zip: _____

Country: _____

Tel: _____

Fax: _____

E-mail: _____

☐ Enclosed is check payable to IGI Global in US Dollars, drawn on a US-based bank

☐ Credit Card ☐ Mastercard ☐ Visa ☐ Am. Express

3 or 4 Digit Security Code: _____

Name on Card: _____

Account #: _____

Expiration Date: _____