



# Technology in Healthcare

## A Collection of 19 Scholarly Titles

Healthcare is significantly affected by technological advancements, as technology both shapes and changes health information systems. However, it is important to consider the ethical, societal, and cultural implications that technology in healthcare may impose.

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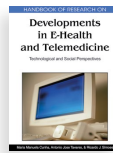
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### Human-Centered Design of E-Health Technologies: Concepts, Methods and Applications

Martina Ziefle (RWTH Aachen University, Germany), et al.  
ISBN: 978-1-60960-177-5; © 2011; 339 pp.

A holistic introduction into the area of human-centered design for e-health applications.



### Handbook of Research on Developments in E-Health and Telemedicine: Technological and Social Perspectives

Maria Manuela Cunha (Polytechnic Institute of Cavado and Ave, Portugal), et al.  
ISBN: 978-1-61520-670-4; © 2010; 888 pp.

Addresses the main issues, challenges, opportunities, and trends related to the fields of online health and medical study.



### Smart Healthcare Applications and Services: Developments and Practices

Carsten Röcker (RWTH Aachen University, Germany), et al.  
ISBN: 978-1-60960-180-5; © 2011; 316 pp.

Provides an in-depth introduction into medical, social, psychological, and technical aspects of smart healthcare applications.



### Text Mining Techniques for Healthcare Provider Quality Determination: Methods for Rank Comparisons

Patricia Cerrito (University of Louisville, USA)  
ISBN: 978-1-60566-752-2; © 2010; 410 pp.

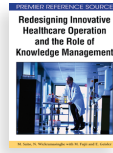
Defines patient severity indices for risk adjustments and comparison of patient outcomes to assess quality factors.



### Healthcare Delivery Reform and New Technologies: Organizational Initiatives

Matthew Guah (Claflin University, USA).  
ISBN: 978-1-60960-183-6; © 2011; 371 pp.

Contains cross-disciplinary research on strategic initiatives for healthcare reform that impacts not only patients, but also organizations.



### Redesigning Innovative Healthcare Operation and the Role of Knowledge Management

M. Saito (Waseda University, Japan), et al.  
ISBN: 978-1-60566-284-8; © 2010; 322 pp.

Provides comprehensive frameworks, constraints, and performances analyzed by experts within the healthcare sector.



### Wireless Technologies for Ambient Assisted Living and Healthcare: Systems and Applications

Athina Lazakidou (University of Peloponnese, Greece), et al.  
ISBN: 978-1-61520-805-0; © 2011; 258 pp.

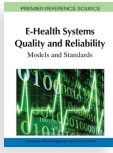
Provides a compendium of terms, definitions, and explanations of concepts and processes within the area of AAL.



### Handbook of Research on Advances in Health Informatics and Electronic Healthcare Applications: Global Adoption and Impact of Information Communication Technologies

Khalil Khoubati (University of Sindh, Pakistan), et al.  
ISBN: 978-1-60566-030-1; © 2010; 628 pp.

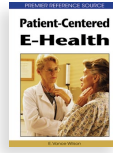
Sheds light on the adoption and usage of health informatics.



### E-Health Systems Quality and Reliability: Models and Standards

Anastasios Mourtzoglou (European Society for Quality in Healthcare, Greece), et al.  
ISBN: 978-1-61692-843-8; © 2011; 376 pp.

Addresses healthcare systems and presents a novel framework for revealing, understanding, and implementing appropriate management interventions leading to qualitative improvement.



### Patient-Centered E-Health

E. Vance Wilson (Arizona State University, USA)  
ISBN: 978-1-60566-016-5; © 2009; 300 pp.

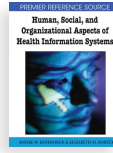
Provides the reader with information on current technological integrations, potential uses for technology in healthcare, and the implications both positive and negative of health informatics for one's health.



### Developments in Healthcare Information Systems and Technologies: Models and Methods

Joseph Tan (McMaster University, Canada)  
ISBN: 978-1-61692-002-9; © 2011; 311 pp.

Presents the latest research in healthcare information systems design, development, and deployment.



### Human, Social, and Organizational Aspects of Health Information Systems

A.W. Kushniruk (University of Victoria, Canada), et al.  
ISBN: 978-1-59904-792-8; © 2008; 422 pp.

Offers an evidence-based management approach to issues associated with the human and social aspects of health information systems.



### Handbook of Research on Human Cognition and Assistive Technology: Design, Accessibility and Transdisciplinary Perspectives

Soonhwa Seok (University of Wisconsin-Whitewater, USA), et al.  
ISBN: 978-1-61520-817-3; © 2010; 621 pp.

Marks a critical milestone in the history of implementation and practice of assistive technology.



### Information Systems and Healthcare Enterprises

Roy Rada (University of Maryland Baltimore County, USA)  
ISBN: 978-1-59904-651-8; © 2008; 380 pp.

Provides insight on the challenges arising from the adaptation of information systems to the healthcare industry.



### Healthcare and the Effect of Technology: Developments, Challenges and Advancements

Stefane M. Kabene (Ecole des Hautes Etudes en Santé Publique, France)  
ISBN: 978-1-61520-733-6; © 2010; 400 pp.

Presents the perspective of a distinct form of e-health that is patient-focused, patient-aware, and patient-active.



### Web Mobile-Based Applications for Healthcare Management

Latif Al-Hakim (University of Southern Queensland, Australia)  
ISBN: 978-1-59140-658-7; © 2007; 450 pp.

Addresses the difficult task of managing admissions and waiting lists while ensuring a quick and convincing response to unanticipated changes of clinical needs.



### Pervasive and Smart Technologies for Healthcare: Ubiquitous Methodologies and Tools

Antonio Coronato (CNR, Italy), et al.  
ISBN: 978-1-61520-765-7; © 2010; 360 pp.

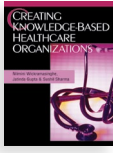
Offers solutions for the pressures within today's healthcare systems.



### E-Health Systems Diffusion and Use: The Innovation, the User and the UseIT Model

Ton A. M. Spil (University of Twente, The Netherlands), et al.  
ISBN: 978-1-59140-423-1; © 2006; 342 pp.

Offers an overview of the use and diffusion of information systems in the healthcare sector with particular attention to the role of the user.



### Creating Knowledge-Based Healthcare Organizations

Nilmini Wickramasinghe (Cleveland State University, USA), et al.  
ISBN: 978-1-59140-459-0; © 2005; 388 pp.

Includes the methodologies, systems, and approaches needed to create and manage knowledge in various types of healthcare organizations.