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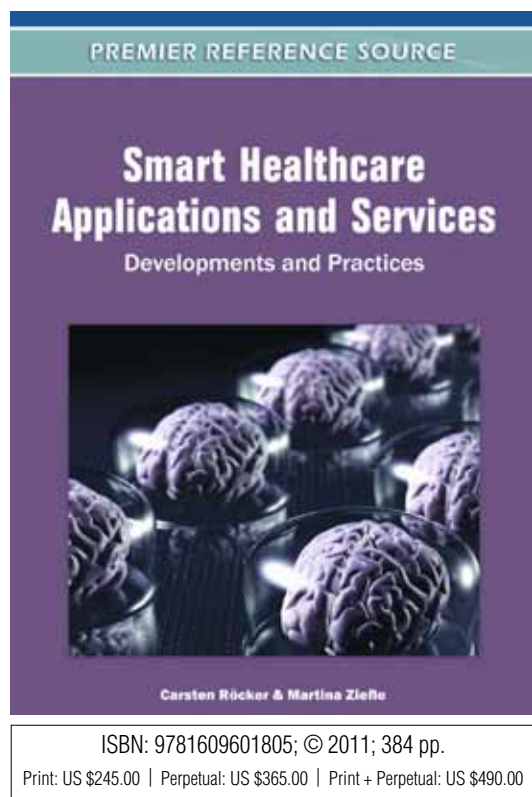
Smart Healthcare Applications and Services: Developments and Practices

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Within the last years a variety of new healthcare concepts for supporting and assisting users in technology-enhanced home environments emerged. These so-called "smart healthcare technologies" are characterized by a combined use of information and communication technologies and health monitoring devices in the home domain.

Smart Healthcare Applications and Services: Developments and Practices provides an in-depth introduction into medical, social, psychological, and technical aspects of smart healthcare applications as well as their consequences for the design, use and acceptance of future systems. The knowledge and insights provided in this book will help students as well as systems designers understand the fundamental social and technical requirements smart healthcare technologies have to meet.

Topics Covered:

- Adaptive and tangible user interfaces for e-health systems
- Ambient assisted living environments
- Handheld devices and mobile computing in e-health systems
- Human aspects of future and emerging healthcare technologies
- Model-based design of e-health systems
- Privacy, security, and trust in e-health applications
- Social and societal implications of e-health applications
- Software infrastructures and architectures for implementing e-health applications
- Technologies and devices for smart healthcare systems
- Usability of healthcare information systems

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Carsten Röcker is a senior researcher at the Human Technology Centre (HumTec) at RWTH Aachen University, working in the research program "eHealth - Enhancing Mobility with Aging." As part of an interdisciplinary team of researchers he is designing healthcare applications for supporting elderly people in ubiquitous computing environments. Previously, Carsten was a visiting PostDoc at the Media Computing Group, focusing on the evaluation of user requirements for smart work environments. Before joining RWTH Aachen University in 2008, he was a PostDoc at the Distributed Cognition and HCI Laboratory at the University of California in San Diego. From 2000 to 2006 he worked as a research associate at the Fraunhofer Integrated Publication and Information Systems Institute (IPSI) in Darmstadt. During this time he was involved in several projects designing novel information and communication technologies for intelligent home and office environments. He has an interdisciplinary background with academic degrees in the areas computer science (PhD), psychology (PhD), electrical engineering (Master) and management (Master).

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