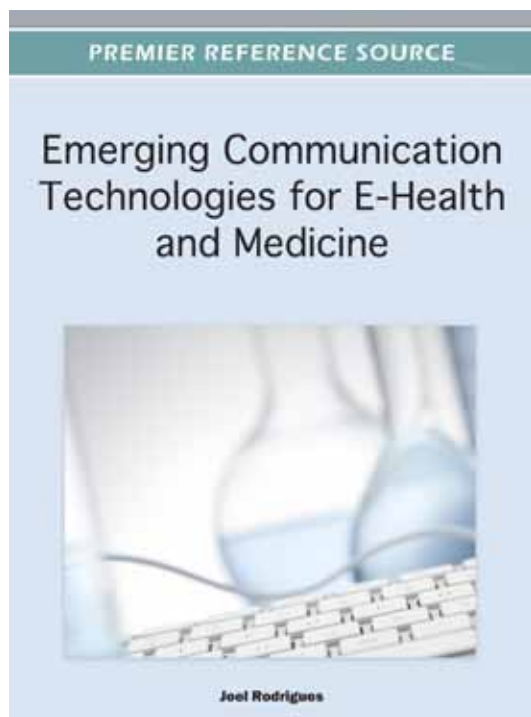


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Released: April 2012

Emerging Communication Technologies for E-Health and Medicine



Joel J.P.C. Rodrigues
(Instituto de Telecomunicações, University of Beira Interior, Portugal)

According to the World Health Organisation (WHO), e-health is the combined use of electronic communication and information technology in the health sector and, moreover, it enables a safer, higher quality, more equitable, and sustainable health system.

Emerging Communication Technologies for E-Health and Medicine is a fundamental source for the advancement of knowledge, application, and practice in the interdisciplinary areas of healthcare, e-health, m-health, u-health, sensors, biomedical engineering, and telemedicine. Due to its grounding in research and theory evidence, this book is designed for use in graduate courses in health management, medicine, nursing, health professionals, and medical informatics. The book can help to e-health contents, applications, and interesting experiences. It is an important way to communicate e-health concepts.

Topics Covered:

- e-health services
- Health Cloud
- Health Grid
- Health informatics
- Health monitoring
- Healthcare management systems
- ICT-enabled personal health system
- m-health
- Telemedicine
- Traffic characterization

ISBN: 9781466609099; © 2012; 378 pp.

Print: US \$245.00 | Perpetual: US \$370.00 | Print + Perpetual: US \$490.00

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Joel J.P.C. Rodrigues is a professor at the University of Beira Interior (Covilhã, Portugal) and researcher at the Instituto de Telecomunicações (Portugal). He is the leader of NetG-NA Research Group (<http://netgna.it.ubi.pt>) and the founder and leader of the IEEE ComSoc CSIM Special Interest Group on modeling and simulation tools (<http://mst.it.ubi.pt>). He is a member of the Steering Committee of IEEE ComSoc Technical Sub-Committee on e-health and the secretary of the IEEE ComSoc Technical Committee on Communications Software. He participates in several European networks of excellence and Portuguese research projects. He is the general chair of the IEEE International Workshop on medical applications networking (MAN). He has chaired several technical program committees from international conferences and participated in tens of TPCs. He has been guest editor of several journal special issues and belongs to numerous editorial review boards of international journals. He is a licensed professional engineer and member of the ACM SIGCOMM, the Internet Society, and a senior member of the IEEE Computer Society, IEEE Communications Society, and IEEE Education Society.



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