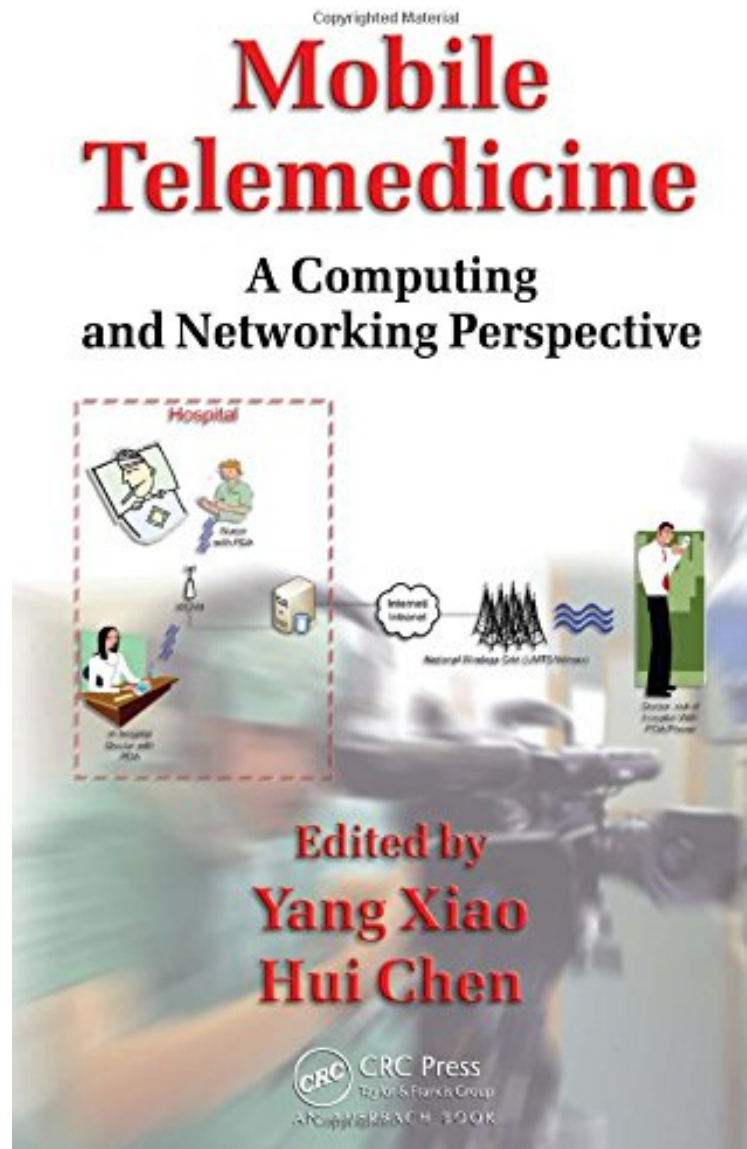


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# Mobile Telemedicine: A Computing and Networking Perspective

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**From Brand: Auerbach Publications : Mobile Telemedicine: A Computing and Networking Perspective** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Mobile Telemedicine: A Computing and Networking Perspective:

3 of 3 people found the following review helpful. exciting advances By W Boudville Here is an upbeat look at future medicine. The ever cheaper cost of computing and communications promises significant improvements in telemedicine. The authors survey the possibilities. Prominent amongst these is safety. Being able to remotely monitor

elderly or others who might need urgent assistance. As the proportion of elderly increases in several countries, this affords lifestyle improvements and productivity gains. In related ways, there are others who need regular monitoring of their health. The example of diabetics keeping an eye on their insulin levels in blood is given. Especially relevant, since diabetes has been increasing worldwide. For cases like this, the monitoring might be automatically done by instruments on the person, and then uploaded to a central location, for future analysis. Another improvement is for a doctor to be able to diagnose a patient remotely. Or even to conduct surgery in this manner. The latter might be still fairly rare, however.

The concept of medical treatment from a distance (in absentia care) is actually quite ancient, dating back to tribal days where smoke signals were used to warn of serious disease in a community. Nowadays, telemedicine is used to facilitate treatment in rural areas, where the nearest doctor is miles away, through various forms of information technology, including videoconferencing and digital imaging. It can also be used to conveniently monitor chronically ill patients through electronic devices so that they can enjoy a better quality of life. But despite the strides that have been made in utilizing the telemedicine technology, there remain a number of limitations and weaknesses that must be overcome before this treatment paradigm can reach its full potential. In *Mobile Telemedicine: A Computing and Network Perspective*, noted computer scientists Yang Xiao and Hui Chen examine those computing and networking dilemmas arising from wireless and mobile telemedicine. Comprised of the contributions of many prominent international researchers, the book discusses the relative merits and limitations of the existing technology and sheds light on future developments. It begins with a discussion of patient care and monitoring through items such as personal alarm systems. It then reviews the current methods available to monitor cardiac and diabetic patients, analyzes the security and privacy considerations that arise with respect to the transmission of sensitive information, and examines issues relating to networking support. Finally, it concludes with a section on the opportunities and challenges faced by those involved at this intersection of healthcare and communications. By bridging the fields of medicine and information technology, this volume serves as a useful springboard for those pioneering IT researchers looking for a comprehensive reference. The book also provides information for those involved with either communications or healthcare who want to learn about the current state and potential use of this technology.