

Preface

This concise book provides a candid assessment and practical knowledge about the current technological advancements of the wireless healthcare system. The text presents the competencies of modeling e-health framework, medical wireless body sensor networks, communication technologies for mobile health, nanotechnology innovations in medicine, security issues for medical records, personalized services in healthcare applications, and Big Data for wireless health.

This book covers multiple research perspectives in order to address the strong need for interdisciplinary research in the area of wireless health, such as the interactive research among biomedical sensor technology, intelligent textiles and advanced wireless network technology. The interactions involve experts from multidisciplinary fields including medical, information technology and computing fields. Designed as a study tool for graduate students, researchers, and medical professionals, this book is also valuable for business managers, entrepreneurs, and investors within the medical and healthcare industries. It is useful for anyone who cares about the future opportunities in healthcare systems.

We are deeply indebted to colleagues and students who have read this material and given us valuable suggestions for improving the presentation. Especially, there are many suggestions from researchers who participate in IEEE/ACM conference on connected health: Applications, Systems and Engineering Technologies (CHASE) co-founded by Weisong Shi and one of authors Honggang Wang. We owe a special debt of gratitude to Sherman Shen from University of Waterloo who initiated this book opportunity, read the original manuscript in detail and gave us valuable advices. We also want to thank Susan Lagerstrom-Fife and Jennifer Malat from Springer for their great support.

We present this book with a hope that more and more readers could follow up the direction of wireless health in the future.

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Wireless Health

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