



Biomechatronics in Medicine and Healthcare

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This book presents experts' insights into the emerging technologies and developments that are being or will be utilized in the medical profession to meet a variety of clinical challenges. It demonstrates the application of biomechatronics to provide better care and service. It also incorporates new and exciting multidisciplinary areas of research across the medical and engineering fields, such as robotic therapeutic training system for stroke rehabilitation, exoskeletons for daily activities on persons with disability, functional electrical stimulation, and wireless active capsule endoscopy. Each chapter provides substantial background material relevant to the particular subject.

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Editorial Review

Review

"This book introduces the biomechatronics in rehabilitation engineering. It covers from the basic principles to various applications which is very helpful for students and people working in this area."

?Prof. Shangkai Guo, Tsinghua University

About the Author

Dr. Raymond Tong Kaiyu received his PhD in bioengineering from the University of Strathclyde, Glasgow, UK, in 1998. He joined the Hong Kong Polytechnic University in 1999 and the Department of Health Technology and Informatics as an associate professor in 2008. His research interests include rehabilitation robot and functional electrical stimulation system for persons who have suffered stroke. His research and innovation have received Faculty Award on Research and Scholarly Activities(FHSS, PolyU) in 2009; Grand Award from HKIE innovation awards for young members(The Hong Kong Institute of Engineers) in 2008; Gold award from Brussels Eureka 2007 (also known as the 56th World Exhibition of Innovation, Research and Industrial Innovation); Gold award from the 5th China International Invention Exhibition 2004; and Certificate of Merit in Consumer Product Design from the Hong Kong Award for Industry 2003. He teaches subjects related to bioinstrumentation, medical devices, clinical electrophysiology, medical device regulatory (FDA, ISO, MDD), and intellectual property (Patent).

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