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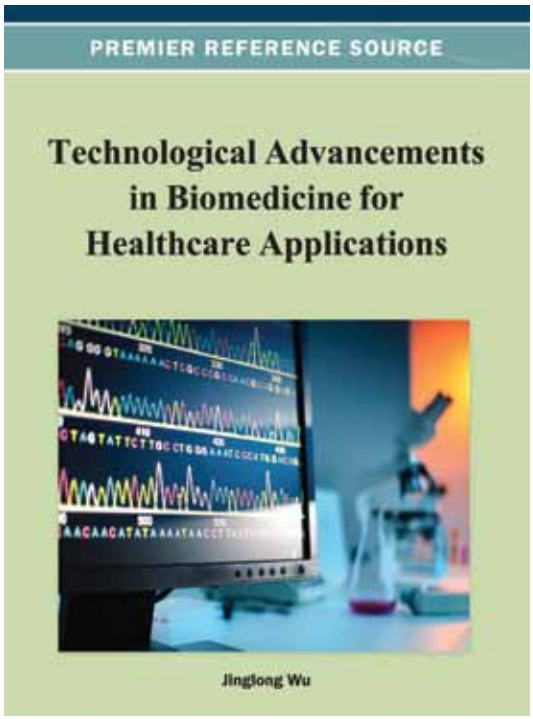
Technological Advancements in Biomedicine for Healthcare Applications



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Jinlong Wu (Okayama University, Japan)

Technology continues to play a major role in all aspects of society, particularly healthcare. Advancements such as biomedical image processing, technology in rehabilitation, and biomedical robotics for healthcare have aided in significant strides in the biomedical engineering research field.

Technological Advancements in Biomedicine for Healthcare Applications presents an overview of biomedical technologies and its relationship with healthcare applications. This reference source is essential for researchers and practitioners aiming to learn more about biomedical engineering and its related fields.

Topics Covered:

- Biomedical Image Processing
- Biomedical Robotics for Healthcare
- Brain-Machine Interference
- Mechatronics
- Neurosurgery
- Technology in Rehabilitation

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Dr. Jin Wu received her medical degree from the Xi'an Medical University (China) and trained at the Second Attached Hospital of Xi'an Medical University as a resident. She received her Ph.D. in Radiology from Institute of Clinical Medicine, University of Tsukuba (Japan) in 1996. She completed her postdoctoral research fellowship (Postgraduate Award from Postdoctoral Fellowship for Foreign Researcher of Japanese Society for the Promotion of Sciences) at the same institute from 1999 to 2001. Dr. Wu served as Assistant Professor in the Graduate School of Comprehensive Human Sciences at the same university from 2004 to 2007, where her research primarily focused on the development and application of molecular and morphological imaging. Dr. Wu joined Chiba University Center for Forensic Mental Health as Research Scientist and Assistant Professor from 2007 to 2010. She was promoted to the rank of Associate Professor in 2010. Recently, Dr. Wu has become interested in neuroscience, including neuropsychiatric disorders; her current research is developing a new imaging ligand for diagnosing and treating neuropsychiatric disorders.

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