DESCRIPTION

The topic of this book is the modeling of data uncertainty and knowledge for a health engineering problem such as the biomechanics of the musculoskeletal system. This is the first book on this subject. It begins with the state of the art in related topics such as data uncertainty, knowledge modeling, and the biomechanics of the musculoskeletal system, followed by fundamental and theoretical aspects of this field. Clinically relevant applications of musculoskeletal system modeling are then introduced. The book finishes with a chapter on practical software and tools for knowledge modeling and reasoning purposes.

ABOUT THE AUTHOR

Dr. Tien Tuan DAO received the Engineer Diploma and the Master degree in Computer Science in 2005 at the University of Cantho in Vietnam and in 2006 at the University of Technology of Compiègne (UTC) in France respectively. After receiving the PhD degree in Biomechanics and Bioengineering in 2009 at UTC, he pursued his research activities as a postdoctoral fellow at the same university until 2011. From 2012, he is holding a CNRS research engineer position at the UMR CNRS 7338 Biomechanics and Bioengineering Laboratory at the UTC. His research interest relates to the modeling of human osteo-articular and musculoskeletal systems using biomechanics and knowledge-based engineering approaches.
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