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Computational Anatomical Animal Models

Methodological developments and research applications

Edited by Habib Zaidi

Geneva University Hospital

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About the book

Computational Anatomical Animal Models: Methodological developments and research applications provides a comprehensive review of the history and technologies used for the development of computational small animal models with a focus on their application in preclinical imaging and experimental radiation therapy, as well as non-ionizing and ionizing radiation dosimetry calculations. It also provides an overview of the overall process involved in the design of these models, including the fundamental elements used for the construction of different types of computational models, the identification of original anatomical data, the simulation tools used for solving various computational problems and the applications of computational animal models in preclinical research.

About the editor

Habib Zaidi is chief physicist and head of the PET Instrumentation and Neuroimaging Laboratory at Geneva University Hospital and a faculty member at the medical school of Geneva University. He is also a professor of medical physics at the University of Groningen, an adjunct professor of medical physics and molecular imaging at the University of Southern Denmark and a visiting professor at the Université de Cergy-Pontoise.

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