

New Developments on Computational Methods and Imaging in Biomechanics and Biomedical Engineering

This book gathers selected, extended and revised contributions to the *15 International Symposium on Computer Methods in Biomechanics and Biomedical Engineering* (CMBBE2018), and the *3 Conference on Imaging and Visualization*, which took place on 26-29 March, 2018, in Lisbon, Portugal. The respective chapters highlight cutting-edge methods, e.g. new algorithms, image analysis techniques, and multibody modeling methods; and new findings obtained by applying them in biological and/or medical contexts. Original numerical studies, Monte Carlo simulations, FEM analyses and reaction-diffusion models are described in detail, together with intriguing new applications.

The book offers a timely source of information for biologists, engineers, applied mathematicians and clinical researchers working on multidisciplinary projects, and is also intended to foster closer collaboration between these groups.

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