



# Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization

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## Special issue: 'CMBBE2018 – 15th international symposium on computer methods in biomechanics and biomedical engineering & 3rd conference on imaging and visualization'

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EDITORIAL

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Imaging and Visualization tools are essential in Biomedical and Biomechanics towards the development of new diagnosis methodologies and medical devices. The research on this area, involving the development and improvement of visualization technics applied to medicine, has been increasing and it is reflected in the number of conferences and meetings focused on this area.

The International Symposium on Computer Methods in Biomechanics and Biomedical Engineering (CMBBE), following this trend, encompasses the Conference on Imaging and Visualization giving the deserved highlight to the applications of imaging on biomechanical and biomedical engineering. The 15th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering and the 3rd Conference on Imaging and Visualization (CMBBE2018) were run together at Instituto Superior Técnico (IST), Technical University of Lisbon, Portugal, from 26th to 29th of March 2018. We believe that it had a strong impact on the development of computational biomechanics and biomedical imaging and visualization; particularly, by identifying emerging areas of research and promoting the collaboration and networking between participants.

This current issue of the 8th volume of the journal *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization* (CMBBE: Imaging & Visualization) contains the extended and revised versions of seven articles presented at CMBBE2018, which were reviewed according to the CMBBE: Imaging & Visualization policy. The included works present and discuss new trends in those fields using several novel methods and techniques, including three-dimensional anatomic structures reconstruction; biomechanical modelling; 3D ultrasound-imaging; image interpolation methods; resting-state fMRI analysis.

The Guest-Editors wish to thank all the CMBBE2018 authors and members of the Program Committee for sharing their expertise, particularly to the authors of the selected articles and to the editors and reviewers of CMBBE: Imaging & Visualization for helping improving the accepted articles.

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