



Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization

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Editorial message from the Editor-in-Chief

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EDITORIAL

Editorial message from the Editor-in-Chief

I am delighted to welcome you to Volume IV of our journal *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*.

The journal has pursued its goal to seek and present innovative methods and applications related to imaging and visualisation of biomedical data and to support links among researchers, technology developers and end users.

In 2015, the journal received 112 articles from 28 countries: Algeria, Australia, Austria, Brazil, Canada, Chile, China, France, Germany, India, Indonesia, Israel, Italy, Libya, Malaysia, the Netherlands, Pakistan, Poland, Portugal, Russian Federation, Singapore, Spain, Sweden, Taiwan, the Islamic Republic of Iran, the Republic of Korea, the United Kingdom of Great Britain and Northern Ireland and the United States of America, which confirms once more the excellent worldwide recognition of the journal. Maintaining the outstanding quality of the works published in the journal, the Editorial Board accepted 22 articles and rejected 43, and 20 articles were published in the four issues of Volume III:

In the first issue of Volume III, four articles were published: (1) Li and co-workers presented the development of an architecturally comprehensive database of forearm flexors and extensors from a single cadaveric specimen, (2) the problem of image improvement in digital cytology was addressed by Giansanti et al., (3) a histopathological tool for quantification of biomarkers with sub-cellular resolution was proposed by Kårsnäs and collaborators and (4) Woo et al. presented a high-resolution atlas and statistical model of the vocal tract from structural MRI.

The following issue had six articles of the special issue *Computational Modeling of Objects Presented in Images: Fundamentals, Methods and Applications*, which was organised by Paolo Di Giamberardino (Università di Roma), Daniela Iacoviello (Università di Roma), R.M. Natal Jorge (Universidade do Porto) and João Manuel R.S. Tavares (Universidade do Porto). The works included in this second issue were: (1) an image-based appearance model for hand tracking proposed by Petersen and Stricker, (2) Avola et al. presented the design of a framework for personalised 3D modelling from medical images, (3) a finite element analysis of altered load distribution within the femoral head in osteoarthritis described by Marinozzi and collaborators, (4) a protocol of acquisition and post-processing procedures to assess coronary artery disease by computed tomography suggested by Ribeiro et al., (5) Varga and co-workers proposed a new method for multivalued discrete tomography and, in the last article, (6) Boschetto et al. addressed the focus emulation and image enhancement in digital cytology.

In the third issue, the following five studies were included: (1) a method for constructing teeth and a maxillary bone parametric model from clinical CT scans proposed by Vasco and co-workers, (2) Moore and Mignot presented a software toolbox for large scale analysis and visualisation of polysomnography data, (3) a protocol for the creation of patient-specific finite element models of the musculoskeletal system from medical imaging data proposed by Dao and collaborators, (4) the problem of robust initialisation for single-plane 3D CT to 2D fluoroscopy image registration tackled by Akter et al. and (5) the influence of the specimen scan condition on the finite element voxel model of human vertebral cancellous bone investigated by Lu.

The fourth and last issue of Volume III also had five papers of the special issue for the *1st MICCAI Workshop on Bio-imaging and Visualization for Patient-Customized Simulations*, which was organised by João Manuel R. S. Tavares (Universidade do Porto), Xiongbiao Luo (Nagoya University) and Shuo Li (University of Western Ontario). The works presented included: (1) the 3D segmentation of the tongue in MRI tackled by Harandi et al., (2) the simulation of the critical steps of the Nuss procedure by Rechowicz and collaborators, (3) a solution to estimating pedicle screw fastening strength via a virtual templating platform for spine surgery planning proposed by Linde and co-workers, (4) a novel colon wall flattening model for computed tomographic colonography suggested by Wang et al. and (5) the biomechanical model-based 4DCT simulation proposed by Li and Porikli in the last article.

It should be noted that with the goal of gathering contributions on fresh topics, solutions and applications related to bio-imaging and visualisation, the journal always welcomes proposals for special issues.

In 2015, the journal achieved two important recognitions: (1) it began to be indexed in Scopus (Sciverse), which confirms recognition of the standards of the Editorial Board and the high quality of the articles that have been published, and (2) the page budget was increased by 50%, meaning that, as of this year, the journal has six issues per volume, which is a result of the large number of articles that have been submitted to the journal.

In order to recognise the outstanding quality of the articles published, the journal Editorial Board established the *Best Paper Award* for the best paper published in the journal each biennium. The best paper is selected from the manuscripts published each biennium by the Editor-in-Chief, Associated Editors and members of the Advisory Board of the journal, based on the originality of the contribution and readability of the manuscript. For the 2012–2014 biennium, I am pleased to announce that the winner is the article *Global Minimum for a Variant Mumford–Shah Model with Application to Medical Image Segmentation* by Da Chen,

Mingqiang Yang and Laurent D. Cohen, which I acknowledge for choosing our journal to publish their work and congratulate them for the high quality and relevance of their article.

Again, I would like to thank the members of the Advisory and Editorial Boards whose excellence and international recognition have been crucial for the credibility and distinction of the journal. Also, a special appreciation to the Associated Editors for continuing their role in helping me manage the journal so efficiently; I feel privileged to have such supportive colleagues working with me. My thanks also go to the very professional Taylor & Francis group that works with me, and whose continuous support has been vital for the correct managing and dissemination of the journal.

Computer Methods in Biomechanics and Biomedical Engineering: Imaging Visualization has been able to attract remarkable authors and readers. In order to interest other outstanding authors and readers, we will focus our efforts on the dissemination of the journal and on its inclusion in other journal indexing databases.

As I stated in the inaugural issue of the journal, two groups are essential for the success of any journal: the authors and the readers. Hence, I am sure that you all have had a central role in the success of our journal, which is deeply appreciated.

João Manuel R. S. Tavares