Computational vision and image processing applied to Dental Medicine

Thematic Session within ViplIMAGE 2017
VI ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing
Porto, Portugal, 18-20 October 2017
www.fe.up.pt/vipimage
web.fe.up.pt/~vipimage/nav/conference/sessions.htm

Description
Evolution of dental imaging and computerized technologies (based on Digital Images Processing, Pattern Recognition and Artificial Intelligence techniques) applied to Dentistry has increased over the last years. Many companies have developed hardware and software based on new imaging hardware and processing techniques, that can be applied in any field of Dentistry.

As a biological flow, saliva is one of the main research areas in Dentistry nowadays, allowing research on Omics sciences, and even the identification of diseases-related biomarkers.

However, research on these technologies applied to Dentistry are still needed. More studies are necessary concerning the evaluation of its usability, integration, functionality and optimization in the clinical dental practice, in order to evaluate and optimize clinical diagnosis and treatments.

In this thematic session, we would like to receive communications based on the theme of this Event and in the Topics indicated below applied to Dental Medicine.

Topics of interest include (but are not restricted to):
- Dental Radiology
- Intra-oral scanning techniques
- Extra-oral scanning techniques
- CAD-CAM applied to Dentistry
- Image processing techniques related to evaluation of oral structures
- Dental radiology
- Dental clinical decision support systems
- Stress analysis techniques and optimization of oral rehabilitations

Publications
The proceedings book will be published by Springer under the book series "Lecture Notes in Computational Vision and Biomechanics" and indexed by Elsevier Scopus.
A special issue of the Taylor & Francis international journal “Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization”, indexed in ISI Thomson Reuters, Elsevier Scopus and dblp, will be published. All authors of works presented in ViplIMAGE 2017 will be invited to submit an extended version to the special issue.
Important dates

• Submission of extended abstracts: April 21, 2017 (FINAL deadline)
• Authors Notification: May 10, 2017
• Final Papers (not compulsive): June 15, 2017

Organizers

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