

Advances in Lung CT Image Processing

Thematic Session within VipIMAGE 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

Medical image processing is a constantly improving area. New techniques and algorithms for the processing of computed tomography images are developed at an accelerated pace. The use of computed tomography in the diagnosis and monitoring of lung diseases, despite being very well established, still owns significant challenges with regard to the automated processing and analysis of the images produced.

This thematic session aims to show recent advances in the area, presenting new techniques of processing, automated analysis and pattern classification. It also intends to be a forum for sharing experiences between specialists, researchers and beginners in the field, presenting and discussing relevant ideas.

Topics of interest include (but are not restricted to):

- New algorithms for CT image processing
- Automated segmentation
- Software development for CT image processing and analysis
- Improvements of visualization
- Computer aided diagnosis
- Pattern recognition
- Automated pattern classification
- Automated diagnosis of lung diseases
- Automated classification of lung nodules

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 VipIMAGE 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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