

Call for Papers

Overview

After the success of the 1st DLMIA, held with MICCAI 2015, we present a proposal for the organising the 2nd DLMIA. Deep learning methods have experienced an immense growth in interest from the medical image analysis community, particularly in the last two years. The main reasons behind this interest lie in ability of deep learning algorithms to process very large training sets, to transfer learned features between different databases, and to analyse multimodal data. These advantages are providing important opportunities for the development of medical image analysis methodologies, such as computer-aided diagnosis, image segmentation, image annotation and retrieval, image registration and multimodal image analysis. Deep Learning in Medical Image Analysis (DLMIA) is a workshop dedicated to the presentation of works focused on the design and use of deep learning methods in medical image analysis applications. We expect that this workshop is setting the trends and identifying the challenges of the use of deep learning methods in medical image analysis. Another important objective of the workshop is to continue and increase the connection between software developers, specialist researchers and applied end-users from diverse fields related to Medical Image and Signal Processing, which are the main scopes of MICCAI.

Topics

- Image description by means of deep learning techniques;
- Medical imaging-based diagnosis using deep learning;
- Medical signal-based diagnosis using deep learning;
- Medical image reconstruction using deep learning;
- Deep learning model selection;
- Meta-heuristic techniques for fine-tuning parameter in deep learning-based architectures;
- Deep learning-oriented applications.

Important Dates

- **Full Paper Submission: July 10th, 2016 (11:59pm PST)**
- **Notification of Acceptance: August 9th, 2016**
- **Camera-ready Version: August 15th, 2016**
- **Workshop Date: October 21st, 2016 (Full Day)**

Invited Speakers

- **Dinggang Shen, UNC-Chapel Hill**
- **Nassir Navab, Technical University of Munich**

Website

- **<http://cs.adelaide.edu.au/~dlmia2/>**

Organization

Gustavo Carneiro, University of Adelaide, Australia
João Manuel R. S. Tavares, Universidade do Porto, Portugal
Andrew P. Bradley, University of Queensland, Australia
João Paulo Papa, Universidade Estadual Paulista, Brazil
Jacinto C. Nascimento, Instituto Superior Tecnico, Portugal
Vasileios Belagiannis, University of Oxford, UK
Jaime S. Cardoso, Universidade do Porto, Portugal
Zhi Lu, University of South Australia, Australia