

Parallel Session on Biomedical Data Science

(to be held jointly with Data2018 Conference, Madrid, Spain)

Biomedical Informatics can be defined as the science of information applied to or studied in the context of biomedicine. Furthermore, Data Science is a discipline that studies the application of methods, processes, algorithms and systems to extract knowledge from data. Many efforts have been made in last decades to extract knowledge from biomedical data. For this reason, both disciplines cannot be seen as separated fields. In fact, Biomedical Informatics community usually view biomedical data science as just another methodological topic within Biomedical Informatics. Biomedical Informatics researchers have been carrying out data science work for decades, albeit often using different terminology. Despite the efforts carried out, there are still a number of open problems in this area. Precisely, the aim of this session is to disseminate the latest advances in Biomedical Data Science.

The suggested list of topics includes (but it is not restricted to):

- Biomedical Data Mining and Big Data
- Biomedical Data Fusion
- Biomedical Machine Learning
- Biomedical Data preprocessing
- Data management in wearable sensors
- Deep Learning for Biomedical Informatics
- Medical Image Analysis
- Biomedical Data Visualization

Authors intending to take part in this parallel session should send an abstract of their contribution for review. A number of invited speakers will also take part in this session.

Abstract Submission Guidelines

Authors are encouraged to prepare their submissions containing the title, authors (affiliations and contact), abstract (max. 500 words) and keywords (5-6). The abstract should describe the context of the research, the objectives, a short description of the proposal, a summary of results and major conclusions. There are not strict format requirements. Abstract should be sent to luis.igarcia@secardiologia.es.

We will especially welcome contributions of new data science methodologies and techniques that have general applicability and that form the basis for the evolving science of biomedical informatics. We will consider contributions that emphasize the information management and knowledge representation/modeling issues that arise in the storage and use of biological signals and images. Accepted abstract will be published in the conference proceedings. Accepted abstracts' authors must register to Data'18 conference (<http://www.iares.net/Conference/Data2018>) and give a presentation explaining the contribution during the conference dates. Presentation certificates will be handed in.

Authors of the best selected contributions from this session will be invited to write extended papers to be considered for publication in a supplement of a high impact journal. For further information contact juanalfonso.lara@udima.es.

Important Dates

Abstract Submission Deadline: 1st June 2018

Acceptance Notification: 10th June 2018

(Early) Conference Registration Deadline: 15th June 2018

Conference Dates: 1st-2nd October 2018

Session organizers:

- Luis A. Iñigo-García, Head of Interventional Cardiology, Hospital Costa del Sol, Marbella, Spain, email: luis.igarcia@secardiologia.es

- Juan Alfonso Lara Torralbo, Head of Computer Science Department, Madrid Open University (MOU), Madrid, Spain, email: juanalfonso.lara@udima.es

- María Aurora Martínez Rey, Associate Professor of Computer Science Department, Madrid Open University (MOU), Madrid, Spain, email: mariaaurora.martinez@udima.es

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