



## 9<sup>th</sup> Asian Conference on Intelligent Information and Database Systems

3-5 April 2017, Kanazawa, Japan



## SDABBI 2017

### Special Session on Scalable Data Analysis in Bioinformatics and Biomedical Informatics

at the 9<sup>th</sup> Asian Conference on Intelligent Information and Database Systems (ACIIDS 2017)

Kanazawa, Japan, April 3-5, 2017

Conference website: <http://www.aciids.pwr.edu.pl/>

### Special Session Organizers

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### Objectives and topics

Modern bioinformatics and biomedical informatics produce large volumes and wide spectrum of data that require scalable computer architectures and algorithms to analyse them and obtain answers to key questions about human functioning and health. The rapid growth of data in both areas of biomedical research offers new opportunities and challenges. This special session intends to encompass latest advancements concerning scalable solutions in processing and analysing Big biological and biomedical data. The aim of this special session is to reflect the most recent developments in scalable data analysis used for solving problems in a variety of areas related to bioinformatics and biomedical informatics.

The scope of the special session covers the use of scalable computing architectures and high performance computing systems (e.g., Clouds, supercomputers, clusters, Grids, GPUs) in various areas related to bioinformatics and biomedical informatics, including:

- Next-Generation Sequencing data analysis and interpretation
- DNA, RNA and protein sequence analysis
- Motif and regulatory elements finding
- Protein structure analysis, comparison, identification and similarity searching
- Protein structure prediction
- Mass spectrometry data processing
- Gene expression analysis and modelling
- Comparative genomics and genome evolution
- Theory and applications in phylogeny and population genetics
- Ontology-driven biomedical systems
- Gene network and pathway analysis
- Integration and exploration of biological data
- Large scale classification biological and biomedical data
- Scalable solutions for biomedical and health informatics

### Important dates

Submission of papers: **31 October 2016 (Hard deadline!!!)**

Notification of acceptance: **1 December 2016**

Camera-ready papers: **15 December 2016**

Registration & payment: **15 December 2016**

Conference date: **3-5 April 2017**

## Program Committee

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## Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: ***SDABBI 2017: Special Session on Scalable Data Analysis in Bioinformatics and Biomedical Informatics.***

<https://easychair.org/conferences/?conf=aciids2017>

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the SDABBI 2017 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, DBLP, Google Scholar, Scopus, etc.).