

ISaMiB 2018

Special Session on Intelligent Systems and Methods in Biomedicine

at the 10th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2018)

Dong Hoi City, Vietnam, March 19-21, 2018

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

Special Session Organizers

Jan Kubicek

Department of Cybernetic and Biomedical Engineering
VŠB – Technical University of Ostrava, Czech Republic
E-mail: jan.kubicek@vsb.cz

Prof. Marek Penhaker

Department of Cybernetic and Biomedical Engineering
VŠB – Technical University of Ostrava, Czech Republic
E-mail: marek.penhaker@vsb.cz

Prof. Ondrej Krejcar

Vice-dean for Science and Research, Faculty of Informatics and Management Acting Head of Center of Basic and Applied Research
University of Hradec Kralove, Czech Republic
E-mail: ondrej.krejcar@uhk.cz

Prof. Kamil Kuca

Rector - University of Hradec Kralove
Center for Basic and Applied Research, University of Hradec Kralove, Hradec Kralove, Czech Republic
Biomedical Research Center. Faculty Hospital Hradec Kralove, Hradec Kralove, Czech Republic
E-mail: kamil.kuca@uhk.cz

Objectives and topics

The ISaMiB 2018 brings a great opportunity to disseminate recent research ideas related to intelligent systems and method applied in Biomedicine.

A goal of ISaMiB 2018 is to bring together researchers from different fields participating in an area of Biomedical Engineering. Recently, the SW area of intelligent systems in a context of Biomedical Engineering has rapidly grown. Novel intelligent SW methods allow for a precise diagnosis and effective treatment, therefore, a research in this area is substantially important. This special section offers a unique opportunity to discuss and share novel ideas of medical information processing focused on Biomedical Technologies.

Topics of interest include:

- Medical knowledge representation
- Decision support systems, intelligent and recommendation systems
- Biomedical signal analysis and processing
- Biomedical image processing and machine vision
- Intelligent healthcare systems
- Human-computer interaction (HCI) in healthcare
- Medical robotics, intelligent medical devices and smart technologies
- Bioinformatics and Biosystems
- Computational biology
- Wearable and implantable systems
- Fuzzy and expert systems in biomedicine
- Artificial neural networks in biomedicine

- Biomedical data modeling and classification
- Biomechanics and gait analysis
- 3D print in Biomedicine
- Advanced computing and cloud computing in Biomedicine
- Chemo Informatics and Computational Chemistry
- Use IT for drug discovery

Important dates

Submission of papers: **31 October 2017 (Extended - HARD DEADLINE)**

Notification of acceptance: **1 December 2017**

Camera-ready papers: **15 December 2017**

Registration & payment: **15 December 2017**

Conference date: **19-21 March 2018**

Program Committee (to be invited)

Jan Kubicek, VŠB – Technical University of Ostrava, Czech Republic
 Marek Penhaker, VŠB – Technical University of Ostrava, Czech Republic
 Martin Augustynek, VŠB – Technical University of Ostrava, Czech Republic
 Martin Cerny, VŠB – Technical University of Ostrava, Czech Republic
 Vladimir Kasik, VŠB – Technical University of Ostrava, Czech Republic
 Lukas Peter, VŠB – Technical University of Ostrava, Czech Republic
 Ondrej Krejcar, Center for Basic and Applied Research, University of Hradec Kralove, Czech Republic
 Kamil Kuca, Center for Basic and Applied Research, University of Hradec Kralove, Hradec Kralove, Czech Republic
 Petra Maresova, Faculty of Informatics and Management, University of Hradec Kralove, Hradec Kralove, Czech Republic
 Ali Selamat, Universiti Teknologi Malaysia (UTM), UTM Johor Bahru, Malaysia

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: **ISaMiB 2018: Special Session on Intelligent Systems and Methods in Biomedicine.**

<https://easychair.org/conferences/?conf=aciids2018>

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 ISaMiB 2018 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.).