

IVMLS 2017

Special Session on Analysis of Image, Video and Motion Data in Life Sciences

at the 9th 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

Image, video, and motion data acquired from humans and other living organisms contain a wealth of valuable information. However, mining this information requires increasingly more powerful and efficient methods of data analysis and machine learning, to keep up with the super linear data growth rate which is fuelled by advances in sensing and storage technologies and computing speed.

This Special Session will provide a forum for presentation of advances in analysis of visual data from living entities at diverse scales, that may include visual tracking and classification of human activities, segmentation and diagnostic analysis of MRI, PET, CT, ultrasound and other medical images, or modelling and interpretation of changes in microscopic images of subcellular structures. In addition to recently completed research, submissions of work in progress at advanced stages may be accepted to the Special Session, which will provide an opportunity for feedback through discussion with other participants.

Within the scope of this session, areas of interest include, but are not limited to:

- Image, video and motion databases.
- Image, video and motion acquisition.
- Image and video processing, tracking, estimation, reconstruction, denoising, filtering and interpolating.
- Multiresolution analysis.
- Image segmentation, registration and fusion.
- Image, shape and motion representation and models.
- Image, shape and motion matching and recognition.
- Features extraction and selection.
- Dimensionality reduction.
- Machine learning and classification.
- Statistical and mathematical models.
- Industrial applications: biomedical imaging, bioinformatics, cell image analysis, computer-assisted surgery, computer aided diagnosis, functional and molecular imaging, multimedia, surveillance, sports, visualization, video-based human-computer interaction.

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 (to be invited)

Artur Bąk, Polish-Japanese Academy of Information Technology, Poland
Leszek Chmielewski, Warsaw University of Life Sciences, Poland
Aldona Barbara Drabik, Polish-Japanese Academy of Information Technology, Poland
Marcin Fojcik, Sogn og Fjordane University College, Norway
Adam Gudyś, Silesian University of Technology, Poland
Celina Imielińska, Vesalius Technologies LLC, USA
Henryk Josiński, Silesian University of Technology, Poland
Ryszard Klempous, Wrocław University of Science and Technology, Poland
Ryszard Kozera, The University of Life Sciences - SGGW, Poland
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Eric Petajan, LiveClips LLC, USA Andrzej Polański, Silesian University of Technology, Poland
Joanna Rossowska, Polish Academy of Sciences, Institute of Immunology and Experimental Therapy, Poland
Jakub Segen, Gest3D LLC, USA Aleksander Sieroń, Medical University of Silesia, Poland
Michał Staniszewski, Polish-Japanese Academy of Information Technology, Poland
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Kamil Wereszczyński, Polish-Japanese Academy of Information Technology, Poland
Konrad Wojciechowski, Polish-Japanese Academy of Information Technology, Poland
Sławomir Wojciechowski, Polish-Japanese Academy of Information Technology, Poland

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: ***IVMLS 2017: Special Session on Analysis of Image, Video and Motion Data in Life Sciences.***

<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 IVMLS 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.).