

I²FH 2017

Special Session on Intelligent Information Fusion for Healthcare

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

Intelligent information fusion on intelligent digital healthcare services and technologies is vital to improve patient centric decision outcomes, greater access and availability of secure personalized data and the reduction of rising healthcare cost. In recent years, advanced digital technologies such as non-invasive intelli-smart cards, motion capture/tracking systems, Wearables and mobile devices are seamlessly integrated to support care givers and care takers at each step of their health journey. The complexity of big data analytics, health informatics and knowledge discovery of patients leads reactive care, clinic centric and episodic response based on patient information fusion challenging and time consuming. Thus, intelligent algorithms have found promising for data integration and fusion of the formation of patient knowledge base during pro-active & preventive, patient centric & point of care and periodic monitoring and biofeedback control of patients using healthcare decision support systems, tools and devices. The I²FS 2017 Special Session at the 9th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2016) is devoted to smart healthcare systems, devices and tools based on pre-clinical pattern knowledge bases, secure personalized recover analysis & classification, real time biofeedback control, secure personalized wrist band data center, wearable wireless sensor suit, etc. We want to offer an opportunity for researchers and practitioners to identify novel promising research directions as well as to publish recent advances in this area. The scope of the I²FS 2017 includes, but is not limited to the following topics:

- Intelligent healthcare transducers and sensors
- Intelligent implantable devices
- Infrared imaging for healthcare services.
- Knowledge based systems using information fusion
- Feature Extraction and feature selection using intelligent information fusion
- Real time pattern recognition during periodic monitoring & biofeedback control
- Pattern clustering for reactive care, clinic centric & episodic response on healthcare
- Incremental and evolving learning of pre-clinical, injury and post-clinical patterns
- Intelligent healthcare assistive tools and devices
- Medical control and biofeedback control technologies
- Case based reasoning for personalized recovery analysis and classification
- Secure personalized data center for patients
- Wearable wireless sensor suits for healthcare services & technologies

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)

Tadashi Ishihara, Fukushima University, Japan
Tsuyoshi Takagi, Kyushu University, Japan
Andrew J. Haig, USA
Toshiyo Tamura, Osaka Electro-Communication University, Japan
Aaron Leung, The Hong Kong Polytechnic University, Hong Kong
Michael Yu Wang, Hong Kong University of Science & Technology, Hong Kong
Datin Professor SLJ Uta Meyding Lamade, Brunei
Eran Edirisinghe, Loughborough University, UK
Chu Kiong Loo, University of Malaya, Malaysia
Ajith Abraham, MIR Labs, USA
James F. Peters, University of Manitoba, Canada
Sergio Velastin, Kingston University, UK
T. Nandha Kumar, University of Nottingham, Malaysia
James Goh Cho Hong, National University Singapore, Singapore

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: ***EAML 2017: Special Session on Ensemble Approach to Machine Learning.***

<https://easychair.org/conferences/?conf=acids2017>

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 EAML 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.).