

November 14 - 16, 2017, Montreal, Canada

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Symposium on Signal and Information Processing for Healthcare Engineering

Call for Papers

General Co-Chairs:

Martin J. McKeown, University of British Columbia
Xun Chen, Hefei University of Technology

Technical Co-Chairs:

Xiaohui Chen, University of Illinois at Urbana-Champaign
Peng Xu, University of Electronic Sci. & Tech. of China

Technical Program Committee: Daniel McDuff, Massachusetts Institute of Technology; Guolan Lv, Stanford University; Chang-Hwan Im, Hanyang University; Aiping Liu, Hefei University of Technology; Xu Zhang, University of Science and Technology of China.

This Symposium will focus on advances in various dimensional information analytics in various healthcare systems. Today, healthcare engineering promises to bring tremendous benefits and opportunities to the diagnosis, prognosis, treatment, and prevention of human diseases for a better quality of life. In the meantime, healthcare engineering also presents unprecedented performance and challenges in the entire process of data collection, processing, analysis, synthesis, and visualization. The wide deployments of various healthcare systems have also raised a critical issue to health informatics caused by the sheer volume and high complexity of health data collected anywhere and anytime. Novel signal and information processing algorithms, models, systems, and platforms are needed to support the analysis, use, interpretation, and integration of diverse health data. This symposium is aimed at addressing various data analytics issues in this area. The emphasis of this symposium will be developing new signal and information processing methods and tools for emerging healthcare applications.

Topics of interest include but are not limited to:

- Physiological data analysis (EEG, EMG, PPG, etc.)
- Pattern recognition & computer vision for healthcare
- Visualization for healthcare big data
- Biometrics for healthcare
- Body sensor networks
- Medical image analysis for healthcare
- Multimodal integration for healthcare
- Rehabilitation engineering
- Action/emotion/behavior analysis for healthcare
- Human-computer interface
- Smart homes for aged care
- Emerging healthcare applications

Paper Submission: Prospective authors are invited to submit full-length papers (up to 4 pages for technical content including figures and possible references, and with one additional optional 5th page containing only references) or extended abstracts (up to 2 pages), for paper-less industry presentations and Ongoing Work presentations) via the GlobalSIP 2017 conference website. Manuscripts should be original (not submitted/published anywhere else) and written in accordance with the standard IEEE double-column paper template. Accepted full-length papers will be indexed on IEEE Xplore. Accepted abstracts will not be indexed in IEEE Xplore, however the abstracts and/or the presentations will be included in the IEEE SPS SigPort. Accepted papers and abstracts will be scheduled in lecture and poster sessions.

Important Dates:

- ❖ **May 15, 2017:** Paper submission due
- ❖ **June 30, 2017:** Notification of Acceptance
- ❖ **July 22, 2017:** Camera-ready papers due

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