

November 14 - 16, 2017, Montreal, Canada

<http://www.ieeeglobalsip.org/>

Call for Papers Symposium on Big Data Analytics for IoT Healthcare

(Visit: <http://www.ele.uri.edu/faculty/kunalm/Big4IOTHealth.xhtml>)

General Co-Chairs:

Kunal Mankodiya, University of Rhode Island
Yan Lindsay Sun, University of Rhode Island

Technical Committee Chair

Geng Yang, Zhejiang University, China

Publication Chair

Amir Amiri, PhD, Temple University, USA

The rapid growth of Internet of Things (IoT) and Big Data, as well as the public embracement of miniature wearable biosensors have generated new opportunities for personalized eHealth and mHealth services. The advantages of these services include the availability and accessibility, ability to personalize and tailor content, and cost-effective delivery. Still, many challenges need to be addressed in order to develop consistent, suitable, safe, flexible and power-efficient systems fit for medical needs. To enable this transformation, it requires multidisciplinary research, as well as close collaboration between academia and industries. This symposium aims to bring researchers and industrial partners in the area of signal, data, and information processing to address all important aspects of novel IoT technologies for smart healthcare-wearable sensors, body area sensors, advanced pervasive healthcare systems, and Big Data analytics that are aimed at providing tele-health interventions to individuals for healthier lifestyles. The symposium invite authors to submit high quality papers containing original work from both academia and industry reporting novel advances in (but not limited to) the following topics:

- Internet of things for medical and healthcare applications
- Novel signal processing methods for wearable and implantable biosensors
- Big-data analytics for healthcare
- Machine learning, scalable machine learning and deep learning algorithms for medical IoT
- Novel devices and circuits, and architectural support for healthcare-aware IoT
- Cloud-enabled eHealth solutions
- Fog computing/Edge clouds for healthcare cloud resource allocation and monitoring
- Privacy preserving and security approaches for large scale analytics
- Case studies of smart eHealth architectures (telemedicine applications, health management applications, etc.)

KEYNOTE SPEAKER: Wendy Nilsen, PhD, Program Director for the Smart and Connected Health (SCH) and Smart and Connect Community (S&CC) at National Science Foundation (NSF), USA.

Paper Submission: Prospective authors are invited to submit full-length papers (with up to six pages) for technical content including figures and references. Manuscripts should be original (not submitted/published anywhere else) and written in accordance with the standard IEEE double-column paper template. Papers will be accepted only by electronic submission via the GlobalSIP 2017 conference website. 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:

| | |
|--------------------------------|----------------------|
| Paper submission deadline | May 15, 2017 |
| Announcement of review results | June 30, 2017 |
| Due date for camera | July 22, 2017 |

Technical Committee:

Amir Rahmani, UC Irvine (USA) & TU Wien (Austria)
Benny Lo, Imperial College London, UK
Bin Li, University of Rhode Island, USA
Farshad Firouzi, Karlsruhe Institute of Technology, Germany
Hassan Ghasemzadeh, Washington State University, USA

Krishna Kumar Venkatasubramanian, Worcester Polytechnic Institute, USA
Rolando Martins, University of Porto, Portugal
Shivayogi Hiremath, Temple University, USA
Nitul Dutta, Marwadi University, India

IEEE GlobalSIP

5th IEEE Global Conference on Signal and Information Processing

November 14 - 16, 2017, Montreal, Canada



<http://2017.ieeeglobalsip.org>

