CFP -- Smart and Connected Health (SCH) Symposium @ COMPSAC 2019, Milwaukee, USA; Submissions Due 21 January 2019

https://ieeecompsac.computer.org/2019/477-2/

The goal of the Smart and Connected Health (SCH) symposium is to provide an international forum connecting data, people and systems towards the development and integration of innovative computer, software and applications supporting the transformation of health and medicine. Advances in communications, computer, and medical technology have facilitated the practice of personalized health, which utilizes sensory computational communication systems to support improved and more personalized healthcare and healthy lifestyle choices. The proliferation of broadband wireless services, along with more powerful and convenient handheld devices, is helping to introduce real-time monitoring and guidance for a wide array of patients. Research community and industry are now connecting medical care with technology developers, vendors of wireless and sensing hardware systems, network service providers, and data management communities.

The symposium encourages research and breakthrough ideas in areas of smart and connected health such as networking, pervasive computing, analytics, sensor integration, privacy and security, socio-behavioral models, and cognitive processes and system and process modeling. The forum will increase more awareness of the constraints arising from clinical and medical needs, barriers to change, heterogeneity of data, semantic mismatch and limitations of current cyber physical systems and an aging population.

The SCH symposium seeks inter-disciplinary collaborative research that lead to new fundamental insights; and encourages empirical validation of new concepts through research prototypes, ranging from specific components to entire systems. It will open collaborations between academic, industry, and other organizations to establish better linkages between fundamental science, medicine and healthcare practice and technology development, deployment and use.

Submissions could consist of theoretical/applied research in topics including, but not limited to:

- Smart intervention for prevention of diseases
- Smart and Connected Health –Wellness and Prevention to Acute and Chronic Care
- Smart and Connected health for various care such as palliative and cancer
- Security and privacy in Smart and Connected health
- Telemedicine and mobile health for Smart and Connected Health
- Evidence Based Medicine and Clinical Practice Guidelines
- Data Analytics in Smart and Connected Health
- Ethics, privacy, and research regulations in Smart and Connected Health
- Smart and wearable systems to support mobility impaired children
- Non-invasive and wearable diagnosis of health conditions such as sepsis
- Wearable devices for in home monitoring of heart failure
- Smart systems for prediction and assessment of health conditions such as acute respiratory distress symptoms
- Intelligent clinical decision support systems
- Personalize evidence-based medicine
- Smart systems for reducing obesity
- Privacy preserving data analytics
- Smart and connected environmental public health
- Post operative health management
- Trauma treatment
- Patient-centric home
- Cognitive haptic based rehabilitation system
- Privacy preserving computation in genomic data
- Personalized drug delivery
- Monitoring of health conditions such as joint kinematics
- Mining for smart healthcare such as drug-drug interaction from Health Record Databases
- Patient similarity learning from massive clinical database
- Computer guided training systems in healthcare such as laparoscopy

Important Dates:
Deadline for paper submission: January 21, 2019
Notification of acceptance: March 31, 2019
Camera-ready and registration due: April 15, 2019

Paper format and template:
https://ieeecompsac.computer.org/2019/information-for-authors/

Paper submission site:
https://easychair.org/conferences/?conf=compsac2019

SCH Symposium Chairs
Ji-Jiang Yang, Tsinghua University, China
May Wang, Georgia Tech, USA
William Chu, Tunghai University Taiwan

SCH PC Chairs
Sahra Sedighsarvestani, Missouri University of Science & Technology, USA
Hossain Shahriar, Kennesaw State University, USA