

COMPSAC 2018

Tokyo, Japan

July 23-27

Staying Smarter in a Smartening World

Call for Papers



COMPSAC is the IEEE Computer Society Signature Conference on Computers, Software and Applications. It is a major international forum for academia, industry, and government to discuss research results and advancements, emerging challenges, and future trends in computer and software technologies and applications. The theme of COMPSAC 2018 is *Staying Smarter in a Smartening World*.

Computer technologies are producing profound changes in society. Emerging developments in areas such as Deep Learning, supported by increasingly powerful and increasingly miniaturized hardware, are beginning to be deployed in architectures, systems, and applications that are redefining the relationships between humans and technology. As this happens, humans are relinquishing their roles as masters of technology to partnerships wherein autonomous, computer-driven devices become our assistants. What are the technologies enabling these changes? How far can these partnerships go? What will be our future as we deploy more and more “things” on the Internet of Things - to create smart cities, smart vehicles, smart hospitals, smart homes, smart clothes, etc.? Will humans simply become IoT devices in these scenarios and if so, what will be the social, cultural, and economic challenges arising from these developments? What are the technical challenges to making this all happen - for example, in terms of technologies such as Big Data, Cloud, Fog, Edge Computing, mobile computing, and pervasive computing in general? What will be the role of the ‘user’ as the 21st Century moves along?

COMPSAC 2018 is organized as a tightly integrated union of symposia, each of which will focus on technical aspects related to the “smart” theme of the conference. The technical program will include keynote addresses, research papers, industrial case studies, fast abstracts, a doctoral symposium, poster sessions, and workshops and tutorials on emerging and important topics related to the conference theme. A highlight of the conference will be plenary and specialized panels that will address the technical challenges facing technologists who are developing and deploying these smart systems and applications. Panels will also address cultural and societal challenges for a society whose members must continue to learn to live, work, and play in the environments the technologies produce. Authors are invited to submit original, unpublished research work, as well as industrial practice reports. Simultaneous submission to other publication venues is not permitted. All submissions must adhere to IEEE Publishing Policies, and all will be vetted through the IEEE CrossCheck Portal. Papers relevant to COMPSAC topics published in IEEE journals in the last three years or accepted for publication can as well be proposed for live presentation. Further info is available at www.compsac.org.

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Important Dates

Main Conference papers

Due date: 15 January 2018

Notification: 31 March 2018

Workshop papers

Due date: 10 April 2018

Notification: 1 May 2018

Camera Ready and Registration

Due date: May 15, 2018