Over the last two decades, much effort has been devoted to promoting the integration and interaction between the cyber and physical parts of our world. This motivates the proposal of the concept of Cyber-Physical Systems (CPS), which has already attracted much attention from the government, academia and industry. CPS presents a higher combination and coordination between the physical world and our information world. CPS can be, and actually has already been, applied in a variety of domains such as industry, agriculture, transportation, electricity system (e.g., smart grid), and imposing huge potential in promoting the life quality of human-beings.

On the other hand, the newly emerging concept edge computing, or fog computing, as “cloud” at the network edge (e.g., base stations), emerges as a promising alternative of traditional cloud, especially to applications featured by geo-distribution, latency-sensitivity and high-resilience. Fog computing can provide an ideal platform for CPS services and applications owing to its characteristics of wide-spread geographical distribution.

Therefore, it is natural to jointly discuss CPS with edge computing. The purpose of the special session on Cyber-Physical Systems and Edge Computing is to provide a forum for practitioners and researchers from diverse backgrounds to exchange and discuss their recent ideas, research achievements, design and implementation experiences in CPS and edge computing.

This is a special session of the 11th IEEE International Conference on Cyber, Physical and Social Computing (http://cse.stfx.ca/~CPSCom2018/). Please submit your paper via the submission site (https://edas.info/newPaper.php?c=24611) and select the special session of “Cyber Physical Systems and Edge Computing” marked with “CPSComEC”.

Accepted conference papers will be published by IEEE (IEEE-DL and EI indexed). Selected papers, after further extensions and revisions, will be recommended to journal special issues. More details at the conference website: http://cse.stfx.ca/~CPSCom2018/si.php

**Topics include but are not limited to:**

- CPS and edge computing architecture
- Cross-layer resource management and optimization
- Computation and communication offloading in edge computing
- CPS service composition in edge computing
- Security and privacy challenges in edge computing
- Service placement, replication and migration models in edge computing
- Application- and service-aware resource management
- QoS/QoE in CPS and edge computing
- Inter-service communications in mobile edge networks
- Software-defined networking in edge computing
- Traffic orchestration in edge computing
- Theoretical models on CPS and edge computing
- Prototype design, implementation and deployment experience
- Experimental evaluations on CPS and edge computing
- Intelligence in CPS and edge computing

**Session Chairs:**
Deze Zeng, China University of Geosciences, Wuhan, China  
Peng Li, University of Aizu, Japan

**Important Dates:**
Paper Submission Due: April 15, 2018  
Acceptance Notification Due: May 31, 2018  
Paper Registration Due: May 8, 2018  
Camera-ready Manuscript Due: June 15, 2018