

The International Conference on Cyber-Physical Systems and Control (CPS&C-2019)

June 10-12, 2019, St. Petersburg, Russia

Conference Scope

The CPS&C - Cyber-Physical Systems and Control serves as an important forum for scientists and engineers to exchange the latest advantages, developments and achievements in new theories, algorithms, models, and applications of new perspectives of CPS problems with accent on control theory and related application areas. It aims to join a latest research and practitioners in perspective CPS and control science and its application in industry, information and telecommunication areas, engineering and social problems.

The CPS&C focuses on the CPS as a new generation of control systems techniques and techniques which activate perspective exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging problems. Now the CPS is a scientific and engineering discipline that should advance the conceptualization and realization of future industrial and societal-scale systems characterized by deep integration and pervasiveness of real-time processing, sensing, and actuation across logical and physical heterogeneous domains; systematic analysis of the interactions between engineering structures, information processing, humans and the physical world.

The CPS&C-conference aims to reveal cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors. Prospective authors are invited to submit manuscripts written in English.

We invite you to join the CPS&C and be a part of our international community sharing ideas in inspiring talks and discussions. All submissions will be peer-reviewed by experts in the field based on originality, significance, quality and clarity. Authors should submit PDF files of their manuscripts via the online submission system. Submissions imply that the papers have not been submitted elsewhere and will not be submitted elsewhere for publications before the review decisions of this conference.

Conference Topics:

The authors are invited to submit the papers in two sub-directions: theoretical backgrounds of CPS and its applications.

Theoretical Background of CPS

- *Control theory and CPS-Paradigm*
- *System Analysis of CPS*
- *Methods, Models and Architecture*
- *Algorithms and Tools*
- *Components, Elements, Structures*
- *Real-time CPS*

CPS Technologies

- *Engineering of CPS*
- *Industrial CPS*
- *Internet of Things and CPS*
- *Artificial intelligence and Machine Learning of CPS*
- *Cognitive technology for CPS*
- *Software-defined CPS*

Applications of CPS:

- *Industry Manufacturing*
- *Mechatronics and Robotics*
- *Networking and Telecommunication*
- *Transport and Logistics*

- *Energy and Smart Grid*
- *Multimodal human-machine interfaces for CPS*

Paper Submission:

- Submission Deadline: 15 March 2019,
- Review Decision Notification: 15 April 2019,
- Author Registration and Final Paper Submission: 10 May 2019