



OVERVIEW

As digital computing and communication become faster, cheaper, and available in packages that are smaller and use less power, these capabilities are increasingly embedded in many objects and structures in the physical environment. Cyber-physical systems (CPS) are physical and engineered systems whose operations are monitored, coordinated, controlled, and integrated by computing and communication. Broad CPS deployment is transforming how we interact with the physical world as profoundly as the world wide web transformed how we interact with one another, and further harnessing their capabilities holds the possibility of enormous societal and economic impact.

ACM/IEEE ICCPS is the premier single-track conference for reporting advances in all CPS aspects, including theory, tools, applications, systems, test-beds and field deployments. The conference focuses on the core science to develop fundamental principles that underpin the integration of cyber and physical elements, as well as on the development of technologies, tools, architectures and infrastructure for building CPS systems, highlighting the design, implementation, and investigation of CPS applications. Application domains include (but are not limited to): transportation, energy, water, agriculture, medical and assistive technology, sensor and social networks, robotics, smart cities, ecology, and supply-chains. Among the relevant research areas are security, control, optimization, machine learning, game theory, mechanism design, mobile and cloud computing, model-based design, verification, data mining / analytics, signal processing, and human-in-the-loop shared or supervisory control.

SUBMISSIONS

All submissions must be in English. Only original papers that are not submitted or published in other conferences or journals will be considered. Manuscripts should have a main body with no more than 10 pages. Up to 2 additional pages of appendices may follow the main body of the paper, within the same submitted .pdf file. The submissions must be in the ACM two-column conference style, US Letter (8.5 inch x 11 inch) paper size, and 10pt text font size.

IMPORTANT DATES

- Full paper submission deadline: October 17, AoE, 2018 (**FIRM deadline**, per CPS Week deadline policy),
- Author notification: December 28, 2018,
- Camera-ready paper due: February 15, 2019.

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