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## CALL FOR PAPERS

Steady advances in controls, communications, and computing are enabling new forms of cyber-physical systems (CPS), and are simultaneously redefining the role and position of humans in broad areas of applications and blurring the traditional boundaries between humans and technology. Therefore, for the most part, human interactions in these technical systems are becoming more complex and raising a range of new technical challenges and broader questions, touching social and even cultural domains. This newfound relationship between humans and technology must be studied from an engineering perspective, a human-factors perspective, and from the perspective of social sciences. This conference series on Cyber-Physical & Human Systems (CPHS) is intended to examine these multidisciplinary dimensions.

The second IFAC conference on CPHS builds on the success of CPHS 2016 and the H-CPS-I meeting in 2014. CPHS 2018 aims to bring together researchers and practitioners from academia and industry to share scientific and technological advances as well as gain a deeper understanding of the interactions between cyber-physical systems and humans. Of particular interest are human-centered technologies in a wide-range of applications including transportation, energy, robotics, manufacturing, and health-care. Examples of topics include human-machine symbiosis, humans as supervisors/operators of complex engineering systems, humans as agents in multi-agent systems, and humans as elements in controlled systems. In addition to the technical and theoretical contributions, CPHS 2018 also invites papers studying the ethical questions, public policies, regulatory issues, and new risks associated with interactions between humans and cyber-physical systems. Towards this end, we invite submissions in the following categories:

- Full conference papers (6-8 pages) addressing relevant CPHS topics, which will be peer-reviewed, and presented at the conference (if accepted). Review, Tutorial and Vision papers are also welcome.
- Extended abstracts (2-4 pages) addressing topics of interest, subject to the same review process as full papers, and invited to present at the conference (if accepted).
- Invited sessions, consisting of six full papers and/or ext. abstracts, to fill a two-hour block.
- Tutorials and/or workshops, a half-day or full-day event either before or after the conference (please contact the organizers for guidance and details)

The conference program will only include papers of the highest standard as selected by the IPC, in accordance with the IFAC guidelines [www.ifac-control.org/publications/Publications-requirements-1.4.pdf](http://www.ifac-control.org/publications/Publications-requirements-1.4.pdf). All papers and abstracts will be accepted with the understanding that the authors will present them at the CPHS Conference. At least one author of every accepted paper will be required to register for the conference before uploading the final version. Accepted papers and abstracts will be presented either in oral or poster format. Accepted papers will be included in the conference "preprints" (USB drive) and published online, whereas accepted abstracts will only be included as preprints and not published on-line. All papers, abstracts, and invited session proposals must be submitted through the conference submission website, [www.cphs2018.org](http://www.cphs2018.org), and conform to the policy found therein.

The IFAC CPHS Young Author Prize will be awarded to the best paper by a student author, and the CPHS Best Poster Prize to the best interactive presentation, please see [www.cphs2018.org](http://www.cphs2018.org) for details on the nomination procedure.

### Important Dates:

**Submission Deadline:** April 15, 2018

**Acceptance/Rejection Notice:** September 1, 2018

**Final Submission Deadline:** October 1, 2018

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