



IEEE ICPS 2020 - <http://icps2020.fi>

3rd IEEE International Conference on Industrial Cyber-Physical Systems (ICPS)

Special Session on

“Human Factors in Automation based on CPS/IoT Technologies”

organized by

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Call for Papers

Scope of the Special Session

This special session invites people working on the modeling, analysis, and design of industrial and social cyber-physical systems that relate to human factors, such as usability, human-in-the-loop, collaboration. Nowadays, automation technology is becoming more and more widely used in industries and our society. How do humans fit in with the automation distributed by means of CPS/IoT? This SS tries to provide a place for researchers and engineers to present their state-of-the-art results and to discuss the related topics with broad interest. Contributors are encouraged to submit their papers to this special session including modeling and methods from mechanical, electrical, environmental, biomedical, chemical and physical aspects with a special focus on the effect of human factors.

Topics of interest for this special session include

- Advances in human factors in energy and power distribution
- Human factors in AI
- Human interactions with the environment
- Human-Robot cooperation
- Modeling and control of Human-in-the-loop cyber-physical systems
- Usability of human factors in cyber-physical systems

Submissions Procedure: All the instructions for paper submission are included in the conference website <https://events.tuni.fi/icps2020/authors/>

Deadlines: The same as the general [conference deadlines](#)

CVs of the proposers

[Jinhua She](#) received his Ph.D. from Tokyo Institute of Technology, Japan in 1993. He is the Delegate of Cluster 4 and the Chair of TC of Human Factors, IES, IEEE.

[Yicheng Zhou](#) received his Ph.D. from Tokyo Metropolitan University, Japan in 1995. He is currently a senior manager at Business Creation Division, Fujitsu Limited, Japan. His research interests include smart grid, energy generation and distribution, and analysis of electricity markets.

[Xin Chen](#) received his Ph.D. from the University of Macau, China in 2007. He is currently a professor and vice dean of the School of Automation, China University of Geosciences, Wuhan, China. His research interests include swarm intelligence and distributed cooperative control of multi-agent systems.

[Chengduo Wu](#) received his Ph.D. from Northeastern University, China in 1994. He is currently a professor and dean of the Institute of Industrial Artificial Intelligence and Optimization, Northeastern University. His research interests include intelligent control, virtual reality, and applications, and robot intelligent navigation.

[Yosuke Nakanishi](#) received his Ph.D. from Tokyo Metropolitan University, Japan in 1996. He is currently a professor at Waseda University, Japan. His research interests include planning, operation, control, and monitoring technology and simulation technology with energy storage, and control technology using the power electronics system equipment toward the sophistication of the distribution system.