

**THE 4TH IEEE INTERNATIONAL
CONFERENCE ON INDUSTRIAL CYBER-
PHYSICAL SYSTEMS
ICPS 2021
MAY 10-13, 2021, VICTORIA, CANADA**

**Special Session on
“Distributed Cyber-Physical Systems and Application”**

Organized by

Principal Organizer 1: Fang Fang
Affiliation: North China Electric Power University, Beijing, China
Institutional Email: ffang@ncepu.edu.cn

Organizer 2: Ju H. Park
Affiliation: Yeungnam University, Kyongsan, Korea
Institutional Email: jessie@ynu.ac.kr

Organizer 3: Feng Xiao
Affiliation: North China Electric Power University, Beijing, China
Institutional Email: fengxiao@ncepu.edu.cn

Organizer 4: Yuanye Chen
Affiliation: North China Electric Power University, Beijing, China
Institutional Email: yuanyechen@ncepu.edu.cn

Call for Papers

Theme: A key feature of Cyber-Physical System (CPS) is the strong interactions among cyber components and dynamic physical components. Hence, CPS is commonly implemented in a distributed way by nature. Due to the complex integration of different components, there exist fundamental challenges in distributed CPS, such as cooperative control, distributed computing and task scheduling. Furthermore, innovative technologies of distributed CPS, like large-scale power systems, smart grids and smart buildings, together with related safety, reliability and security issues, are also to be explored. This special session aims to provide a

platform for a diverse group of researchers and practitioners from different areas to report their recent research and application progress on distributed CPS.

Topics of interest include, but are not limited to:

- Distributed power management of large-scale CPS
- Cooperative control of autonomous agents
- Smart energy systems and interactions with grid
- Safety, security and privacy issues of distributed CPS
- Machine learning for distributed CPS
- Task optimization and scheduling of distributed CPS