The 15th IEEE Conference on Cyber, Physical and Social Computing (CPSCom-2022)
Aug 22 - 25, 2022, Espoo, Finland

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Cyber-Physical-Social Systems

As an emerging cross-disciplinary research area, the Cyber-Physical System (CPS) is attracting attention worldwide. CPS features a combination of computational and physical elements, all of which are capable of interacting, reflecting and influencing each other. Another emerging cross-disciplinary research area, the Cyber-Social System (CSS) is rapidly evolving along with the popularity of online social networking. With the advent of ubiquitous sensing and networking, future social networks turn into cyber-physical interactions, which are attached with associated social attributes.

The 2022 IEEE International Conference on Cyber Physical and Social Computing (CPSCom-2022) will cover both CPS and CSS as well as their further integration, namely CPSS, the Cyber-Physical-Social System. It will provide a high-profile, leading-edge forum for researchers, engineers, and practitioners to present state-of-art advances and innovations, as well as to identify emerging research topics and define the future. We seek submissions of papers which invent new techniques, introduce innovative methodologies, and propose new research directions in advanced CPS, CSS and CPSS.

IEEE CPSCom-2022 Tracks and Topics

Track 1: System & Design	Track 3: Networks & Communications
◇ Efficient architectures for CPSS	◇ Wireless sensor networks
◇ Low power and energy harvesting	◇ Radio frequency identification
◇ Real-time systems	◇ Sensor network and communications
◇ Wearable devices management	◇ 5G Communications
◇ System-level design methodology	◇ Communications in edge computing
◇ Embedded hardware and software	◇ Machine-to-machine communications
◇ Hyper-connected smart devices	◇ Energy efficient in wireless networks
◇ Embedded middleware design	◇ Green communication

Track 2: Data & Services	Track 4: Technologies & Applications
◇ CPSS data processing and AI	◇ Narrow band Internet-of-Things
◇ Data-driven services in CPSS	◇ E-health in CPSS
◇ Data mining platforms for CPSS	◇ Environment monitoring
◇ Cloud-fog-edge computing	◇ Smart city and smart world
◇ Industrial Internet of Things (IIoT)	◇ Privacy and privacy-preserving systems
◇ Distributed computing of big data	◇ Cyber Physical Systems and their safety
◇ Smart services platform	◇ Adaptive and intelligent systems
◇ Incremental computing of big data	◇ Deep learning in CPSS
◇ Tensor computing in CPSS	◇ Blockchain-based applications in CPSS
◇ Multi-attributes matching in CPSS	◇ Biological information processing

SPECIAL SESSIONS
We invite proposals for special sessions associated with the conference, addressing research areas related to the conference. Accepted special sessions papers will be included in the proceedings published by IEEE. Send your proposals to lianyongqi@qfnu.edu.cn; xkwang@stfx.ca.

PAPER SUBMISSION
Main conference papers are limited to 8 pages (regular paper), or 6 pages (short paper), and 2-4 pages for a poster paper following the IEEE proceedings format, and are to be submitted as PDF via the site: https://edas.info/N29462.

PAPER PUBLICATION
Accepted conference papers will be published by IEEE (IEEE-DL and EI indexed). At least one author of each accepted paper is required to register and present their work at the conference; otherwise the paper will not be included in the proceedings. Selected papers, after further extensions and revisions, will be recommended to special issues. More details at the conference website: http://ieee-cybermatics.org/2022/cpscom/.

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