

IEEE International Workshop on CCNCPS 2021

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Montreal, Canada



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Important Dates

❖ Paper submission
deadline:

January 20, 2021

❖ Notification of acceptance:
February 20, 2021

❖ Camera-ready papers:
March 1, 2021

Submission link

<https://edas.info/N27513>

Webpage link

<https://sites.google.com/site/ccncps/>

Scope

The new paradigms and tremendous advances in computing, communications and control have provided and supported wide range of applications in all domains of life, in particular, bridging the physical components and the cyber space leading to the Cyber Physical Systems (CPS). The notion of CPS is to use recent computing, communication, and control methods to design and operate intelligent and autonomous systems using cutting edge technologies. This requires the use of computing resources for sensing, processing, analysis, predicting, understanding of data, and then communication resources for interaction, intervention, and interface management, and finally provide control for systems so that they can inter-operate, evolve, and run in a stable evidence-based environment.

Topics

We seek original completed and unpublished work not currently under review by any other journal/magazine/conference. Topics of interest include, but are not limited to:

- CPS in the design of next-generation communication systems
- Distributed and decentralized systems: Blockchain and smart contracts
- Emerging computations in smart cities: technologies, challenges, and solutions
- Real-time sensing, reasoning and adaptation for CPS
- Cloud-integrated CPS.
- Evolutionary computing for CPS.
- Design theory for CPS
- CPS security and privacy
- Computation models for CPS
- Addresses computation issues in CPS
- Verification and formal methods for CPS
- Mobile sensors in CPS
- Design and performance optimization in CPS
- Adaptive control in CPS
- Distributed computing in CPS.
- Autonomous systems and UAVs.
- Communication and networking for CPS
- Applications of CPS on e-Health.
- Optimizing computing and communication resources for CPS
- Safety-critical, dependable, fault-tolerant of CPS
- Highly networked architectures for interconnected CPS
- Communication and infotainment systems in CPS vehicles networks
- CPS industrial applications
- Networking for intelligent mobility and transport infrastructures
- Sensor networks for CPS
- Intelligent and collaborative methods for CPS
- Sustainability and environmental issues of energy management
- Social computing technologies in CPS
- New testing and validation tools and application for CPS.