

Subject: Invited Session Proposal for ICSPAC 2021

Proposed Session Name: Integrated computing, control, and communication for 6G-enabled IoT applications

The ongoing deployment of 5G systems is exposing the inherent limitations, compared to its original premise as an enabler for Internet of Things (IoT) applications. The 5G drawbacks are spurring worldwide activities focused on defining the next-generation 6G wireless system that can truly integrate far-reaching IoT applications ranging from autonomous systems to extended reality. It is envisioned that 6G-enabled IoT would be an integration of computing, communication, and control technologies driven by exciting, underlying IoT services.

As a result, we strongly hope to propose an invited session for ICSPAC 2021 entitled '*Integrated computing, control, and communication for 6G-enabled IoT applications*'. This special session is aiming to provide an opportunity for bringing together researchers from diverse fields and specializations, such as communications engineering, computer science, electrical and electronics engineering, transportation engineering, mathematics, and specialists in the areas related to IoT. Topics of interest include, but are not limited to the following:

- System/Network architecture design and simulation for 6G-enabled IoT applications;
- Optimization of integrated computing, control and communication for 6G-enabled IoT applications;
- Resource allocation and energy efficiency in 6G-enabled IoT applications;
- Edge intelligence for 6G-enabled IoT applications;
- Security and privacy-preserving for 6G-enabled IoT applications;
- Spectrum and channel modelling for 6G-enabled IoT applications;
- Advanced sensors, sensing and networking techniques for 6G-enabled IoT applications.

Yours sincerely,

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Xinyu Dou, Dalian Maritime University

Organizers:

Session Chair: Bin Lin, Dalian Maritime University

Session Co-Chair: Cunqian Yu, Xinyu Dou