

CALL FOR PAPERS

ICDCS
2020

Workshop on Computing and Scheduling in Wireless Power and Communication Networks (CSWPCN 2020)

July 8-10, 2020, Singapore

<http://intelligentoffloading.com/cswpcn/>

(In conjunction with [ICDCS 2020](https://icdcs2020.sg/index.html), July 8-10, 2020, Singapore, <https://icdcs2020.sg/index.html>)

Scope:

Energy supply to mobile devices has always been a crucial issue faced by the development of wireless communication technologies. Recently, wireless power transfer (WPT) enables transfer of electrical energy from a power source to an electrical load without interconnecting wires, which gains increasingly popularity in many applications, such as home appliances, medical implants, consumer electronics, and space robots. With WPT technologies, wireless devices are able to harvest energy from dedicated wireless transmitters to support their operation and information transmission. Thus, It is also a new promising solution to extend the lifetime of energy-constrained wireless networks and has been regarded as a key enabling technology for truly perpetual communications (e.g., RFID, body area networks, wireless sensor networks, Machine-to-Machine communications, the Internet of things).

This workshop is expected to bring together academic and industrial researchers in an effort to discuss the major technical challenges and contribute recent state-of-art technologies related to the computing technologies in wireless power and communication networks (WPCNs). And we also attempts to investigate the advanced scheduling methods for WPCNs. Topics of interest include but are not limited to the following:

- **Simultaneous wireless information and power transfer**
- **The associated network protocol design in WPCNs**
- **Spectrum sensing, sharing, interference exploitation and management in WPCNs**
- **Physical layer security of WPCNs**
- **Waveform design in WPCNs**
- **WPT systems for special applications**
- **Radiation analysis, shielding, minimizing leakage, and safety design**
- **mmWave and related technologies for WPCNs**
- **Network economics and energy trading of WPCNs**
- **Machine learning and distributed computing for WPCNs**
- **Resource Scheduling for WPCNs and related applications**
- **Localization methods based on WPCNs**

Instructions for Authors:

- Papers should neither have been published elsewhere nor being currently under review by another conference or journal. All paper submissions should follow **the IEEE 8.5" x 11" Two-Column Format**. Papers are limited to **6 pages** (and up to 2 over length pages may be purchased for the final camera-ready version).
- Electronic submission site:
<https://easychair.org/my/conference?conf=cswpcn2020>
- Each accepted paper must have at least one author registered for the conference. There is no workshop-only registration. For authors with multiple papers accepted by workshops or the main conference, a separate author registration is required for each paper.

Important Dates:

Papers submission: **March 3, 2020**
Notification of acceptance: **April 3, 2020**
Camera-ready paper due: **April 17, 2020**
Workshop date: **August 6, 2020**

Please refer to "**Author Information**" posted at the conference website for more info on paper submission and related rules/policies.

General Chairs:

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