



IEEE PELS Workshop on Emerging Technologies:
Wireless Power 2020

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Welcome Message

Without the burden of physical power cables, wireless power technologies using magnetic coupling transfer power from a few milliwatts to hundreds of kilowatts with transfer distances from a few millimeters to hundreds of millimeters. It makes our lives certainly more convenient, comfortable and productive than any previous generation. In the future, wireless power technologies would be completely integrated into our daily life supplying power to our personal electronic devices, wearable/implantable electronics, home appliances and electric vehicles. Wireless Power Week 2020 (WPW 2020) will have the IEEE PELS Workshop on Emerging Technologies: Wireless Power (WoW) and IEEE MTT-S Wireless Power Transfer Conference (WPTC). They will be co-located in Seoul, Korea on May 5 – 9, 2020, bringing together and allowing interactions of the world's experts in wireless power technologies. As a part of the WPW 2020, the WoW 2020 features keynote speeches and regular technical sessions on the theory, analysis, design, testing and applications of wireless power technologies.

Important Dates

- Deadline for Paper Submission: **December 31, 2019**
- Notification of Acceptance: **February 15, 2020**
- Final Paper Submission Due: **March 15, 2020**

Submission Guideline for Regular Papers

Prospective authors are asked to submit their papers through the workshop website (<http://www.2020wow.org>). An abstract of 50-100 words and a digest of 3-5 pages (including figures and tables) should include stating the objective of the paper, outlining the problem requiring solution or the method of approach to research, being explicit with respect to the type of data and summarizing the conclusions.

Technical papers are sought in the following topics

Track 1: Power Transmitters and Receivers for Wireless Power Systems

- a. Magnetics, coils and resonator designs
- b. Directional and omnidirectional wireless power systems
- c. Power inverters/converters for wireless power systems

Track 2: Applications of Wireless Power Technologies

- a. Mobile and personal devices
- b. Electric vehicles
- c. Biomedical implants
- d. Industry/home appliances

Track 3: Power Control of Wireless Power Systems

- a. Modelling, simulation and optimization
- b. Static and dynamic wireless charging
- c. Control and power management

Track 4: Other Devices, System and Technologies Related to Wireless Power

- a. Environmental impacts and health effects
- b. EMC/EMI standards and regulations
- c. Components and integrated circuit