Wireless Power Week

2018 IEEE Wireless Power Transfer Conference (WPTC 2018)

Call for Papers

June 3-7, 2018, Montreal, Quebec, CANADA

wptc2018.org

2018 Wireless Power Week (WPW2018) is the inaugural and largest wireless power event in the world, cosponsored by Microwave Theory and Technique Society (MTT-S) and IEEE PELS. For the first time, this event combines three major conferences in the field: IEEE MTT-S Wireless Power Transfer Conference (WPTC), IEEE PELS Workshop on Emerging Technologies: Wireless Power (WoW), and Wireless Power Congress of the Wireless Power Consortium (WPC). They will be held co-locally in Montréal, Canada, allowing interactions between researchers and developers from all disciplines and backgrounds in the field of wireless power.

IEEE MTT-S WPTC paper submission will be open soon. The topics of interest are listed but not limited to the following technical areas. The accepted papers will be submitted for publication in IEEE Xplore, and their authors are invited to submit the extended version of their papers for possible publication in an IEEE T-MTT Mini special issue. Best papers will be selected and recognized by WPTC Prizes. As a part of the Wireless Power Week, the IEEE WPTC is rotating between Europe, Asia, and North America. It is supported by the MTT-S and it is intended to cover a wide range of areas across the electromagnetic spectrum. In addition to high-quality technical sessions, the conference will feature keynote speeches, tutorials, workshops, short courses, student competition, and industry exhibitions.

Important Dates

Submission Deadline: February 18, 2018
Notification of Acceptance: March 12, 2018
Final Paper Submission: April 30, 2018
Contacts: wptc2018@polymtl.ca

WPTC2018 Steering/Organizing Committee

Conference Chair:	Ke Wu
TPC Chair:	Simon Hemour
TPC Co-Chairs:	Zhizhang (David) Chen Naoki Shinohara
Finance/Treasurer:	Serge Tatu
Local Arrangement:	Tarek Djerafi Jean-Jacques Laurin
Publication/Website:	Emilia Moldovan Jean-Sébastien Décarie David Dousset
Publicity:	Ahmed Kishk Yongxin Guo Yutian Shu
Special Sessions/Workshops:	Yongxin Guo
Paper/Design Competition:	Yutian Shu Lei Guo
Industrial Liaison/Exhibition:	Jules Gauthier Zacharia Ouardirhi
Registration/Secretariat:	Emilia Moldovan Lydia Chioukh
Members at large:	Dominique Schreurs Alessandra Costanzo Nuno Borges Carvalho Menno Treffers Lee Chi Kwan Liuchen Chang Don Tan
WPTC ExCom 2018:	Naoki Shinohara Alessandra Costanzo Nuno Carvalho Paul Mitcheson Ke Wu Dominique Schreurs

Technical Areas

1. Technologies for wireless power transfer and energy harvesting
- Near-field (inductive, resonant) power transfer
- Power management and power electronics
- EMC/EMI, shielding, and coexistence of wireless power and signal transfer
- Coils, resonators, and antennas
- Microwave transmission and beaming

2. Power transmitters and receivers for wireless power transfer and energy harvesting
- High-frequency power transmitters and devices
- High-frequency rectifying circuits and devices
- Rectennas and rectenna arrays
- Devices and techniques for energy harvesting and scavenging

3. Integrated circuits and systems for WPT and energy harvesting
- AC-DC rectifier integrated circuits
- Integrated DC-DC converters
- Wireless power transfer systems
- RF energy harvesting, self-powered sensors
- RFID and electronic tags
- Integrated circuits for biomedical or wearable devices

4. Applications of wireless power transfer and energy harvesting
- Mobile and personal devices
- Home/Industrial-appliances
- Electric vehicles
- Medical and biological devices
- Standardization, regulations and biological effects

5. Other devices, system or application topics related to wireless power
- Power conditioning
- Power control methods
- Efficiency improvement techniques
- 5G mobile network
- Internet of things (IoT)

IEEE MTT-S