

WPTCE 2027

2027 IEEE Wireless Power Technology Conference and Expo

July 2-5, 2027 | Chongqing International Expo Center, Chongqing, China

Call For Papers

WPTCE is the largest event in the world for wireless power research and industry engagement, covering a wide range of topics, applications, frequencies, and power levels. The event, formally known as Wireless Power Week, combines wireless power school, workshops, conference technical and panel sessions, and a student design competition.

CHAIRS

General Chairs

- Xin Dai, School of Automation, Chongqing University
- Changjun Liu, School of Electronic Information, Sichuan University

Co-Chairs

- Naoki Shinohara, RISH, Kyoto University
- Duleepa J. Thrimawithana, ECSE, University of Auckland

CONFERENCE COMMITTEES

Steering Committee

- Prof. Grant Covic
- Prof. Chunting Chris Mi
- Prof. Nuno Carvalho
- Prof. Alessandra Costanzo
- Prof. Jiannshan Lin
- Prof. Simon Hemour
- Prof. Paul Mitcheson
- Prof. Naoki Shinohara
- Prof. Don Tan
- Prof. Chun T. Rim

Technical Co-Chairs

- Prof. Zhizhang (David) Chen
- Prof. Patrick Aiguo Hu

SCOPE OF CONTRIBUTIONS

Wireless power technologies

- Near-field inductive/capacitive transfer
- Far-field and radiative WPT
- Acoustic, optical and solar power transfer
- Directional/omni-directional transfer
- Static and dynamic wireless charging
- SWIPT
- Laser WPT

Materials, circuits and methods

- High-frequency transmitters/rectifiers
- Couplers
- Converters
- Power devices
- Antennas, rectennas and arrays
- Energy harvesting
- Compensation
- Materials/metamaterials
- Control
- EMC/EMI
- EMF safety
- Foreign object detection
- Machine learning

Applications

- Automotive and ground transportation
- Consumer electronics
- UAV/UGV/robots
- Mobile devices
- Home appliances
- Wearable and implantable devices
- Aerospace
- Smart environments/buildings/industrial plants
- Marine/underwater systems
- LoT/sensors
- Standards, regulations, policy and system integration

IMPORTANT DATES

Student competition: Nov. 26, 2026

Regular/Special Paper Submission: Jan. 15, 2027

Acceptance Notification: Mar. 15, 2027

Final Paper Submission: Apr. 16, 2027

Conference: Jul. 2-5, 2027

PAPER SUBMISSION

Regular and special-session full papers should follow IEEE conference format. Recent WPTCE guidance uses 4-6 pages for full papers and subject to IEEE rules.

Student competition should include title, description, organizers, and expected topics.

SPONSORS

Sponsors / Industry Supporters

Chongqing Huachuang Intelligent Technology Research Institute.

WEBSITE:

<https://www.wptce2027.org>

CONTACT:

wptce2027@wptce2027.org.cn

