

IEEE Wireless Power Transfer Conference 2014 Technologies, Systems and Applications

May 8 - 9, 2014, Jeju Island, Korea

www.wptc2014.org | Submission deadline: January 11, 2014

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CALL FOR PAPERS

Since 2010, after Qi standard of an inductive coupling wireless power transmission was established, Wireless Power Transfer(WPT) related technologies experienced a great growth. Wireless charging products of a mobile phone with Qi standard are manufactured and sold in worldwide and WPT technologies have been widely studied for consumer electronics and automotive applications.

A new technical committee (TC), MTT-26, for the field of wireless energy/power transmission, energy harvesting/conversion to wireless transfer and the related technologies was officially launched in June MTT ADCOM/TCC meeting during Microwave Week 2011 at Baltimore. The second IEEE MTT-S International Microwave Workshop Series (IMWS) on Innovative Wireless Power Transmission: Technologies, Systems, and Applications (IMWS-IWPT2012) was successfully organized at Kyoto, Japan, in May 2012. As a result of this success and interest, IEEE-MTT Society decided to start the first Wireless Power Transfer Conference (IEEE WPTC) 2013 in Perugia, Italy.

In order to continue the success of IEEE WPTC 2013, IEEE WPTC 2014 event, still stimulated and supported by TC-MTT-26 and endorsed by TC-MTT-24 (RFID-Technologies), will be held in Jeju Island, Korea, hosted by Korea Advanced Institute of Science and Technology (KAIST).

Technical areas

The technical areas of the conference are:

1. Basic technologies for wireless power transfer systems
 - 1.1. Magnetic induction
 - 1.2. Resonance coupling
 - 1.3. Microwave transmission
 - 1.4. Coils, resonators, and antennas
 - 1.5. Other theoretical or experimental studies
 - 1.6. EMF/EMI, Shielding
2. Applications of wireless power transfer technologies
 - 2.1. Mobile applications (smart phones, tablet PCs)
 - 2.2. Home/Industrial-appliances
 - 2.3. Electric vehicles
 - 2.4. RF-ID and electronic tags
 - 2.5. SPS and space/aeronautic applications
 - 2.6. Other applications
3. Power sources for wireless power transfer systems
 - 3.1. High-frequency power amplifiers
 - 3.2. High-efficiency rectifying circuits
 - 3.3. Power devices (GaN, silicon, tube, IGBT, etc.)
 - 3.4. High power sources
4. Rectifying devices, circuits, and rectennas
 - 4.1. Rectifying devices
 - 4.2. High-efficiency rectifying circuits
 - 4.3. Rectennas
5. Standardization, regulation, and biological effects
 - 5.1. Standards and regulation
 - 5.2. Biological effects of electromagnetic fields
6. Energy harvesting and scavenging
 - 6.1. Devices and techniques for energy harvesting and scavenging
 - 6.2. Applications of energy harvesting and scavenging
7. Control and communication
 - 7.1. Control methods: open-loop and closed-loop control
 - 7.2. Metal and foreign object detection
 - 7.3. In-band and out-of-band communication
 - 7.4. Control and communication implementation
8. Others

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Venue Ramada Plaza Jeju Hotel, Jeju Island, Korea

Web site www.wptc2014.org

Important dates

Deadline for Submission of Preliminary Paper : **January 11, 2014**
 Notification of Acceptance : **March 1, 2014**
 Deadline for Submission of Final Paper : **April 1, 2014**
 Conference Date : **May 8-9, 2014**

- All prospective authors will be notified as to whether their paper was accepted or rejected for publication by E-mail within March 1, 2014.
- Accepted papers will appear in the WPTC-2014 conference proceedings and will be included in IEEE Xplore.
- Note that at least one of the authors of accepted papers must attend the conference to present the paper. Otherwise, the paper will not be published in IEEE Xplore.
- The WPTC-2014 Prize will be given to the winners selected by the WPTC-2014 Award Committee from all the participants presenting the paper at the conference.
- Authors of accepted papers will be given the opportunity to submit an extended version to be considered for publication in IEEE Transactions on Microwave Theory and Techniques.

PAPER ABSTRACT SUBMISSION MUST BE RECEIVED BY JANUARY 11, 2014

Submission Guidelines: Authors are invited to submit no more than four-page paper in English. The paper should explain clearly the content and relevance of the proposed technical contribution. The paper will be peer-reviewed. On a separate page the following information has to be listed: (1) Title of the paper, (2) Author(s) and affiliation(s), (3) Mailing address of corresponding author, (4) Presenting author, (5) Topic of Session. Please use On-Line-Submission site and follow instructions (easily accessible from the conference web site) to submit your contribution.

Registration Fee

PRESENTING AUTHORS MUST PRE-REGISTER BY April 1, 2014

(Only pre-registered paper will be published in the final technical program and IEEE Xplore)

	IEEE Members	Non IEEE Members	Student
Early Registration (Dec 16, 2013~ Apr 11, 2014)	USD 380	USD 440	USD 100
Registration for Presenters (~ Apr 1, 2014)			
Late Registration (Apr 12~Apr 27, 2014)	USD 440	USD 500	USD 150
On-site Registration			

- Registration fee includes Technical Session, USB Proceeding, Welcome Reception, Banquet, 2-days lunch and 2-days Coffee Break.

Contact:

Secretariat of WPTC 2014 Organizing Committee

Sejong Convention Service Co., Ltd.

Tel: Tel: 82-2-783-3473 / Fax: 82-2-783-3475 / **E-mail: secretariat@wptc2014.org**