IEEE Globecom'16 Workshop on Wireless Energy Harvesting Communication Networks

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Important Dates

Paper Submission: July 1, 2016
Acc. Notification: September 1, 2016
Camera Ready: October 1, 2016
Workshop date: December 8, 2016

Call for Paper

Energy supply to mobile devices has always been a crucial issue faced by the development of wireless communication technologies. Recently, wireless energy harvesting (WEH) technique has emerged as a new viable solution to extend the lifetime of energy-constrained wireless networks, and has been regarded as a key enabling technique for truly perpetual communications. With this WEH technology, wireless devices are enabled to harvest energy from RF signals broadcast by ambient/dedicated wireless transmitters to support their operation and information transmission. The WEH technology has been expected to have a wide range of upcoming applications (e.g., RFID, body area networks, wireless sensor networks, Machine-to-Machine communications, the Internet of things).

This workshop will be held on 8 December and is part of the 2016 IEEE Global Communications Conference (GLOBECOM) in Washington, DC USA. The workshop is expected to bring together academic and industrial researchers in an effort to identify and discuss the major technical challenges and recent breakthroughs related to wireless energy harvesting communication networks (WEHCNs). Topics of interest include but are not limited to the following:

- Joint wireless information and power transfer in WEHCNs
- Energy accumulation modeling and the associated network protocol design in WEHCNs
- Cooperative and relay techniques in WEHCNs
- Spectrum sensing and sharing in WEHCNs
- Physical layer security of WEHCNs
- Waveform design in WEHCNs
- The application of emerging technologies (e.g., Massive MIMO) in WEHCNs
- Interference exploitation and management in WEHCNs
- Network economics (e.g., energy trading) of WEHCNs
- Prototypes and testbeds of WEHCNs.

The workshop will feature a keynote speech as well as a panel discussion given by world leading researchers in the field.

The workshop accepts only novel, previously unpublished papers. All submissions should be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures without incurring additional page charges (maximum 1 additional page with over-length page charge if accepted) .
For more information, please see GLOBECOM official website
http://globecom2016.ieee-globecom.org/authors

Workshop website: http://www.ee.usyd.edu.au/people/he.chen/gc16ws-weh
Paper submission link: http://edas.info/N22571