

GlobalSIP 2013

IEEE Global Conference on Signal and Information Processing

Energy Harvesting and Green Wireless Communications

www.ieeeglobalsip.org/sym/13/EHGWC

December 3-5, 2013 • Austin, Texas, U.S.A.

Call for Papers

Wireless communication networks composed of devices that can harvest energy from nature represent the green future of wireless. Utilizing harvested ambient energy for operation of wireless networks improves the environmental impact of wireless devices in the global scale, while extending the network lifetime indefinitely and making the devices truly mobile in the network. Energy harvesting brings new dimensions to system design in the form of randomness and intermittency of available energy, as well as additional system issues to be concerned about such as energy storage capacity and processing complexity, all of which call for novel signal and information processing techniques. Additionally, deployment of energy harvesting wireless communication networks and their integration to the wireless broadband access structure will require effective resource and interference management, cooperation and collaboration between energy harvesting nodes and battery powered devices/access points/small cell base stations, making signal processing algorithms to accomplish these goals invaluable.

The goal of this proposed workshop will be to bring together researchers in energy harvesting and wireless communications, and provide a forum for dissemination of novel research results.

Topics of interest include:

- Physical layer design for energy harvesting communications
- Signal processing for energy harvesting communication
- Information theory of energy harvesting communications
- Network theoretic approaches for energy harvesting communications
- Energy and message cooperation
- Energy efficient MIMO
- Design of green wireless communication systems with hybrid energy sources
- Heterogeneous green wireless communications systems
- Small cell networks and green communications

Paper Submission

Paper submission will be online only through the GlobalSIP 2013 website. Papers should be in IEEE two-column format and no longer than 4 pages.

Symposia Website

Full details, new updates, and submission instructions can be found on the symposia website, <http://www.ieeeglobalsip.org/sym/13/EHGWC>

Important Dates

Paper Submission Deadline	June 15, 2013
Review Results Announce	July 30, 2013
Camera-Ready Papers Due	September 7, 2013



Organizing Committee

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