ENSsys 2019

in conjunction with ACM SenSys

7th Int'l Workshop on Energy Harvesting & Energy-Neutral Sensing Systems

November 10, 2019
New York, NY, USA

Call for Papers

ENSsys will be held in New York City, USA, co-located with ACM SenSys. Complementing the topics of SenSys 2019, this workshop will bring researchers together to explore the challenges, issues and opportunities in the research, design, and engineering of energy-harvesting, energy-neutral and intermittent sensing systems. These are enabling technologies for future applications in smart energy, transportation, environmental monitoring and smart cities. Innovative solutions in hardware for energy scavenging, adaptive algorithms, and power management policies are needed to enable either uninterrupted or intermittent operation. High quality technical articles are solicited, describing advances in sensing systems powered by energy harvesting, as well as those which describe practical deployments and implementation experiences. Moreover, ENSsys offers a platform for innovative future directions by soliciting position papers.

Important Dates

Submission:	~~August 2~~ August 16, 2019 (23:59 AOE)
Notification:	September 6, 2019
Camera Ready:	September 20, 2019
Workshop:	November 10, 2019

Organizing Committee

General Chairs:	Christian Renner, TUHH, Germany
	Brandon Lucia, Carnegie Mellon University, USA
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Shijia Pan, Carnegie Mellon University, USA
Joshua San Miguel, University of Wisconsin-Madison, USA
Olivier Sentieys, University of Rennes, France
Lars Wolf, TU Braunschweig, Germany

Workshop Scope

Topics of interest include, but are not limited to:

- Power management concepts, algorithms and circuits for energy-harvesting sensing systems
- Hardware and software concepts, algorithms and circuits for intermittent computing
- Middleware and services supporting interoperability between zero-energy networks
- Resource management and operating system support for energy-harvesting sensing systems
- Network-wide distributed energy management (e.g. routing, adaptive duty cycling, etc.)
- Communication in intermittent-power domain
- Online measurement of energy intake and consumption
- Predicting energy intake and consumption
- Ensuring reliable operation in energy-harvesting sensor systems
- Modelling, simulation and tools for effective design of future energy harvesting sensing systems
- Architectures and standards for energy-neutral, power-neutral or intermittent sensing systems
- Internet of (battery-less) Things
- Experience with real-world deployments and innovative applications

Submission Guidelines

We solicit three types of paper submission: technical papers (up to 6 pages), position papers (up to 3 pages) and demo/poster papers (up to 2 pages). Papers should be submitted for consideration via the workshop website, prior to the submission deadline. Papers should adhere to the formatting guidelines; templates are available from the workshop website. Papers will undergo double-blind review, and will be reviewed for novelty, relevance and quality. Accepted submissions will be available on the ACM digital library at least one week before the conference.

www.enssys.org