

# ENSsys 2018

in conjunction with ACM SenSys

## 6<sup>th</sup> Int'l Workshop on Energy Harvesting & Energy-Neutral Sensing Systems

November 4, 2018  
Shenzhen, China

### CALL FOR PAPERS

Complementing the topics of SenSys 2018, 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 an enabling technology 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 and 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.

#### IMPORTANT DATES

Submission: August 3, 2018 (23:59 AOE)  
Notification: September 13, 2018  
Camera Ready: September 20, 2018  
Workshop: November 4, 2018

#### ORGANIZING COMMITTEE

General Chairs: Christian Renner, TUHH, Germany  
Jacob Sorber, Clemson University, USA  
Program Chair: Przemyslaw Pawelczak, TU Delft, The Netherlands  
Poster/Demo Chair: Chun Jason Xue, City University of Hong Kong  
Website Chair: Geoff Merrett, University of Southampton, UK  
Publicity Chairs: Josiah Hester, Northwestern University, USA  
Alex Weddell, University of Southampton, UK  
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Geoff Merrett, University of Southampton, UK  
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Jacob Sorber, Clemson University, USA

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Shijia Pan, Carnegie Mellon University, USA  
Olivier Sentieys, University of Rennes, France  
Vamsi Talla, University of Washington, USA  
Lars Wolf, TU Braunschweig, Germany  
Chenren Xu, Beijing University, China

#### 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 for intermittent computing
- Middleware support and services which support 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 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.

<http://www.enssys.org>