

# ENSSys 2013

*in conjunction with SenSys 2013*

## 1st International Workshop on Energy-Neutral Sensing Systems

November 14, 2013

Rome, Italy

## Call for Papers

Complementing the topics of SenSys 2013, ENSSys will bring together researchers to systematically explore the challenges, issues and opportunities in the research, design, and engineering of energy-harvesting and energy-neutral sensing systems. These are a technological cornerstone for future applications in smart energy, future transportation, environmental monitoring and smart cities. Innovative solutions in on-board hardware for energy scavenging, energy adaptive algorithms, and power management policies are the ultimate frontiers, opening the door to unlimited and uninterrupted operation.

High quality original technical articles from academia and industry are solicited, describing advances in sensing systems powered by energy harvesting, as well as those which describe practical deployments and implementation experiences. Attendees will benefit from ENSSys' co-location with SenSys 2013, widely regarded as one of the most prestigious conferences on sensor network research.

### IMPORTANT DATES

**Demo Submission:** September 20, 2013

**Technical Submission:** August 30, 2013

**Notification:** October 04, 2013

**Camera Ready:** October 18, 2013

**Workshop:** November 14, 2013

### WORKSHOP CHAIRS

Davide Brunelli, Uni. Trento, Italy

Geoff Merrett, Uni. Southampton, UK

### PROGRAMME COMMITTEE

Davide Brunelli, Uni. Trento, Italy

Geoff Merrett, Uni. Southampton, UK

Pai H. Chou, Uni. California, Irvine, USA

Emanuel Popovici, Uni. Cork, Ireland

Christian Renner, Uni. Lübeck, Germany

Paul Wright, UC Berkeley, USA

Yogesh Ramadass, Texas Instruments, USA

Paul Mitcheson, Imperial College, UK

Aravind Kailas, Uni. NC Charlotte, USA

### WORKSHOP SCOPE

Topics of interest include, but are not limited to, the following:

- Power management concepts, algorithms and circuits for energy harvesting sensing systems
- Middleware support and services which support interoperability between zero-energy networks
- Resource management and operating system support for energy harvesting sensing systems
- Distributed energy management (routing, adaptive duty cycling etc)
- 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 two types of original submission: **regular papers (6 pages)** for oral presentation, and **demo papers (2 pages)** for research that can be practically demonstrated at the workshop. Submissions should be previously unpublished, and not currently under review by another journal or conference. Papers should be submitted for consideration via the workshop website, and must adhere to the formatting guidelines provided on the ENSSys website. As papers will undergo double-blind review, authors are asked to remove their names and other identifying statements from their submissions. Submissions will be reviewed for novelty, relevance and quality. All accepted papers will appear in the conference proceedings, and will also be available on the **ACM Digital Library**.

<http://www.enssys.org/>