



# 3rd Workshop on Ultra-Low Power Sensor Networks (WUPS 2013)

## Call for Papers

The workshop will be held in conjunction with ARCS (Architecture of Computing Systems) [2] on Wednesday, 20 February, 2013 at Hotel DAP, Vítězné nám. 684/4, 160 00 Prague, Czech Republic.

Ultra-low power sensor networks have gained importance these last few years due to a vast set of applications e.g. in automotive systems, in smart buildings and health-care monitoring.

Sensor networks often need to operate autonomously without wired connection for long periods of time. To allow long maintenance cycles, two main strategies are common: Firstly, they should be able to operate on a long-lived battery or other means of energy sources, e.g. energy harvesting strategies. Secondly, ultra-low power approaches are used to consume as little energy as possible.

The workshop is intended to give a good overview of current work in this area and problems and solutions in specific industry use cases.

**Topics of interest** include, but are not limited to:

- Design methodologies for ultra-low power embedded systems
- Power consumption estimation techniques
- Energy harvesting: technologies and models
- Simulation frameworks for wireless sensor networks
- Power manager
- Wake-up radio technologies
- Low-power radio front ends
- Energy-efficient communication protocols
- Cross layer techniques
- Applications of ultra-low power sensor networks: building automation, smart homes, smart cities, etc.

Industry submissions showing current state of the art are especially welcome.

Paper length should be between 4 and 6 pages. Layout instructions for authors can be found at [3]. Papers must be submitted using the upload system at <https://www.easychair.org/conferences/?conf=wups2013> For ARCS 2013 participants the workshop is included in the conference fee; for participation in the workshop alone, there will be a reduced fee.

### Important dates:

Paper submission deadline: 10.12.2012

Acceptance notification: 11.01.2013

Camera-ready deadline: 18.01.2013

### Program Chair:

- *Olivier Berder, Université de Rennes 1, IRISA, France*

### Program Committee:

- *Karim Benchehida, CEA-LIST, France*
- *Carolynn Bernier, CEA-LETI, France*
- *Florian Broekaert, Thales, France*
- *Jean-Dominique Decottignie, CSEM, Switzerland*
- *Jan Haase, Vienna University of Technology, Austria*
- *Alain Pégatoquet, LEAT, Université de Nice, France*
- *Emanuel Popovici, University College of Cork, Ireland*
- *Olivier Sentieys, INRIA/IRISA, France*
- *Marian Verhelst, KU Leuven, Belgium*

[1] WUPS 2013 Homepage: <http://wups2013.irisa.fr/>

[2] ARCS 2013 Homepage: <http://arcs2013.irisa.fr/>

[3] VDE: Author's guide: <http://www.vde-verlag.de/proceedings-en/type-instructions.html>