

1st IEEE International Conference on Industrial Cyber-Physical Systems ICPS2018

Special Session on

“APPLICATIONS OF ENERGY HARVESTING TO ICPS”

organized by

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Call for Papers

Scope of the Special Session:

Energy Harvesting (EH) is a technology supposed to guarantee the long-term energy source for the Cyber-Physical Systems (CPS) including low-power embedded systems, sensors and actuators, wireless sensor networks, and wearables. Although there is a plethora of research solutions for individual EH component, e.g. rectifier, DC-DC converters, energy storage, etc., their employment in industry is still limited due to high dependence on the final application. This special session aims at discussing the recent advances in EH research and engineering solutions with a special focus on their applications to industrial CPS.

Topics of interest include, but are not limited to:

- Ambient energy harvesting (solar radiation, acoustic noise, vibrations, flow etc.)
- Thermal energy harvesting
- RF energy harvesting
- Biomechanical energy harvesting
- Wireless power transfer and inductive communications
- Discrete and integrated power management for energy harvesting
- Hardware and software for energy harvesting
- Zero-power solutions
- Energy harvesting on textile
- Energy harvesting for smart-x applications (city, home, transportation, etc.)

- Energy harvesting for industrial applications (Oil and gas, aerospace, manufacturing, structural health monitoring, etc.)

Submissions Procedure: All the instructions for paper submission are included in the conference website <http://icps2018.net/>

Deadlines:

Deadline for submission of papers:	22 Dec 2017	15 Feb 2018
Notification of acceptance of papers:	28 Feb 2018	10 Mar 2018
Final manuscripts due:	31 Mar 2018	

International Program Committee (Reviewers) for the Special Session

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