



IEEE

Journal of
Microelectromechanical Systems

J-MEMS Special Topical Focus

MEMS Technologies for the Internet of Things (IoT)

Call for Papers

The Internet of Things is a synonym for networked devices which are connected on a global scale and which may interact and communicate autonomously. MEMS are key elements of IoT, as they are sensors and actuators connecting the IoT to the physical world and enabling context awareness through the measurement of multiple physical, chemical and optical inputs. IoT is a key part of the initiatives for Advanced Manufacturing or Industry 4.0; for example, distributed sensing in machines allows for more reliable and customizable fabrication processes. IoT technology also supports the emerging concepts of personalized health, predictive prevention, and the internet of humans, when physiological data of humans are combined with environmental data yielding feedback to enable individuals to live a healthier life.

J-MEMS invites manuscripts of original research and state-of-the-art reviews for a series on “MEMS Technologies for the Internet of Things (IoT)”. Submitted papers must be original, enhancing the state-of-the-art, and not be published earlier or under consideration for publication in other journals or conferences. In JMEMS, new concepts and technologies require experimental verification. Papers from industry are in particular encouraged. The topics of interest include, but are not limited to:

- Environmental and body area sensor systems (including integrated interface analog circuits and ADC), including wearable MEMS, and flexible MEMS
- Low power / zero power sensor systems and “wake-up” triggers,
- Energy harvesting for autonomous sensor systems; RF MEMS for IoT
- Sensor fusion and data analysis algorithms and energy-efficient signal processing for MEMS in the IoT context
- State-of-the-art surveys and reviews related to these topics

Submitted manuscripts will go through the regular peer review process. Full manuscripts should be submitted electronically through IEEE’s ScholarOne: <https://mc.manuscriptcentral.com/jmems>

Be sure to select “**MEMS Technologies for the Internet of Things (IoT)**” as the Manuscript Type, rather than “Original Paper.” This will ensure that your paper is directed to the appropriate editors. **Accepted papers will be published online and printed in the next regular issue without a waiting period, and will be highlighted for its JMEMS special topical focus.**

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