



IEEE

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Microelectromechanical Systems

J-MEMS Special Topical Focus

Design, Fabrication, Test and Applications of MEMS Inertia Sensors and Resonators

Call for Papers

MEMS Inertia Sensors and Resonators are the core of the MEMS success story during the last two decades. The success has been driven by the automotive industry and is now carried by consumer products. Research in this field is now dominated by challenges arising from further miniaturization and ultra-low power while maintaining high performance, negligible cross-talk and reliability.

J-MEMS is soliciting papers with a focus on new concepts for inertia sensors and resonators, system integration including circuits and applications.

J-MEMS invites manuscripts of original research and state-of-the-art reviews for a series on “Design, Fabrication, Test and Applications of MEMS Inertia Sensors and Resonators”.

Submitted papers must be original, enhancing the state-of-the-art, and not be published earlier or under consideration for publication in other journals or conferences. Papers from industry are in particular encouraged. The topics of interests include but are not limited to:

- Innovative fabrication and integration technologies for inertia sensors and resonators
- New design paradigms, materials and integration for inertia sensors and resonators, also in harsh environments, for (bio)medical applications, on skin-like flexible substrates, consumer electronics, and autonomous systems
- Non-linear mechanics and its exploitation in inertia sensors and resonators
- Further reduction of form factors and solutions for noise, crosstalk, bias and scale factor stability, multi-axes detection, ultra-low power, and packaging
- 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 “**Design, Fabrication, Test and Applications of MEMS Inertia Sensors and Resonators**” 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, highlighted as paper of the JMEMS special topical focus.**

IEEE Tools for Authors are available online at:

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Inquiries can be directed to Lisa Jess, IEEE Publishing Operations, Peer Review Support, l.jess@ieee.org (phone +1-732-465-6617).

Christofer Hierold
Editor-in-Chief of J-MEMS

Andrei Shkel
Subject Editor of J-MEMS