

# CALL FOR PAPERS

## Journal of Robotics and Mechatronics

### Special Issue on “Bio-MEMS”

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**Focus:** “Micro Electro-Mechanical System” (MEMS) is a mechatronics device based on semiconductor integrated circuit manufacturing technology. The development of MEMS devices has realized gyro/accelerometer sensors, pressure sensors, and flow sensors that are small enough to be installed in smartphones.

On the other hand, when we look at biological tissues, cells and intracellular microstructures, which are the basic constituent units, are microns or sub microns in size. Therefore MEMS technology is essentially a very powerful tool for researchers who want to manipulate and measure these minute biological components because it matches their scale.

MEMS technologies applied to medicine and life science are called Bio-MEMS, and in recent years, many Bio-MEMS devices and technologies including micro fluidic devices for cell culture, manipulation, and measurement, and lab-on-a-chip devices for chemical reactions and analysis on MEMS devices, have been developed and resulted in very impressive research results.

This Special Issue on “Bio-MEMS” cordially invites you to contribute your papers on a wide range of themes related to Bio-MEMS technology, from fundamental MEMS technology and device development to its applications to experiment and measurement using MEMS devices.

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#### Important Dates:

#### Submission deadline

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#### **Submission/Contact to:**

JRM Editorial Office, Fuji Technology Press, Japan: [robot@fujipress.jp](mailto:robot@fujipress.jp)

- ◆ Papers should be submitted in Microsoft Word or PDF format. Details on submission and the journal are available at the following link: <https://www.fujipress.jp/jrm/rb/>
- ◆ Submissions can be either Japanese or English. Submissions in Japanese will be translated by the publisher and used after being proofread by the author.
- ◆ Papers submitted to this special issue will undergo our usual review process. Paper may be published in general issues based on review results.

**JRM will get Impact Factor (IF) in 2023!**



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