

## Special Issue

# MEMS/NEMS Sensors and Actuators for Biomedical Applications

### Message from the Guest Editors

MEMS and NEMS are at the forefront of technological innovation, offering unparalleled opportunities to revolutionize healthcare applications. These miniature devices enable precise sensing, actuation, and energy conversion, making them integral to modern biomedical systems. Recent advancements in MEMS/NEMS technologies have significantly enhanced their capabilities, paving the way for groundbreaking applications in diagnostics, therapy, and patient monitoring. Inertial sensors, with their compact size and high sensitivity, are transforming motion tracking for wearable health devices and implantable systems, aiding in rehabilitation and real-time patient monitoring. RF-MEMS are pushing the boundaries of wireless communication in healthcare, enabling seamless data transmission for smart implants and telemedicine platforms. Tactile sensors inspired by human skin are playing a pivotal role in prosthetics, robotics-assisted surgery, and haptic feedback systems, offering unprecedented sensitivity and adaptability. This Special Issue explores the latest trends and innovations in MEMS/NEMS technologies, emphasizing their transformative impact on healthcare.

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### Deadline for manuscript submissions

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