Call for Papers and OPEN special issue
For *Microelectronic Engineering*

Micro- and Nanotechnology/Engineering for Biology and Life Sciences
Short title: MicroNanoForLifeBio 2017

including selected papers from the
43rd Micro- and Nano-Engineering conference MNE 2017

The aim of this special issue is to bring together recent advances in Micro- and nanotechnology/engineering for life sciences and biology. This issue is 'open call'. This means that, while mainly including selected papers presented at MNE 2017, it is also open to other authors.

The MNE conference series focuses on micro- & nanofabrication and manufacturing using lithography and other approaches related to micro- and nanopatterning, as well as the application of micro- and nanostructures and devices in electronics, photonics, electromechanics, environment, and life sciences.

The areas of particular interest for this special issue are:

Micro- and nanotechnology/engineering for life sciences and biology

- **Micro/nanofluidic devices and systems:** fluidic components, fluidic devices, system design and modelling, integration, fabrication
- **Applications of micro/nanofluidic devices and systems:** Biochips, Lab-on-a-Chip, µTAS, BioMEMS, micro/nano fluidic devices for chemical analysis, sorting devices, cell-micro/nanostructure interactions, neuronal devices, micro/nano devices for cell, organ and tissue studies, Organ-on-a-Chip
- **Micro/nanofabricated devices:** Biosensors, artificial cells, components for minimal invasive instruments, wearable and implantable micro/nano devices
- **Bio-inspired technologies:** Bio-nanomachines, bioassembly of micro/nanomaterials, biomimetic micro/nanotechnology

Manuscript submission deadline: 13 October 2017

Manuscripts of the special issues will be submitted and reviewed via the online Elsevier Editorial System (EES). Articles will be processed and published with the standard Elsevier publishing timeline for each individual manuscript following acceptance. Please submit papers directly using the MEE journal submission web page and *select the appropriate special issue*. The submission opens on 6 September 2017.

Guest Editors
Xavier Muñoz (Institute of Microelectronics Barcelona IMB-CNM, Spain)
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Instructions for authors
- The standard submitted manuscripts are regular MEE publications (4-6 pages).
- Review papers (7-10 pages) are encouraged from invited/plenary speakers and leading members of the community. If you are not an MNE invited speaker and you wish to submit a review, please contact Evangelos Gogolides (Editor-in-Chief, Microelectronic Engineering) or one of the Guest Editors with a proposal and outline.
- Highly novel work can be submitted as an *accelerated* publication (up to 4 pages) and will be given high priority.
- For all publications, we encourage you to include supplementary data and audio/video abstracts.
- For general enquiries, please contact the MNE Program Chair.
- Please select the correct file type (regular paper, review paper, etc.) and choose the correct name of the special issue **MicroNanoForLifeBio 2017**.

Your paper and associated supplementary information should comprise a complete, novel and full description of your work. Please make sure that your paper is well-written, and supply additional information, videos, audios, etc. as on-line supplementary material to appear on the web, but not in the printed version (see instructions for authors). Your supplementary material will be available directly from ScienceDirect or Scopus.

Please note that the special issue papers undergo the same high-standard review process as any other MEE paper. At least two reviews need to be in agreement per paper before decision, and the typical rejection rate is 50-60%. Therefore, please make sure that both the technical content of your paper, and your presentation style and language, is of high quality, novel, unpublished, and not being submitted elsewhere. Please check the author guidelines.