

Call for Contributions

Submission:

1. **Inform the Chairs:** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICQNM+2018+Special>

Please select Track Preference as **AIB-IADA**

Special track

AIB-IADA: Advanced Interfaces for Biosensing - Interdisciplinary Aspects of Design and Applications

Chair and Coordinator

Kamen N. Nedev, PhD, Ass. Professor, Sofia University "St Kliment Ohridski", Sofia, Bulgaria
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along with

ICQNM 2018, The Twelfth International Conference on Emerging Security Information, Systems and Technologies

September 16, 2018 to September 20, 2018 - Venice, Italy

<http://www.aria.org/conferences2018/ICQNM18.html>

Biosensors are generally made by surface modification of conventional physical transducers that leads to formation of hybrid interface between the two front constructive and operation parts of the device. These (bio)organic/inorganic interfaces play a key role in biosensors performance. The proper elaboration of hybrid interfaces remains the most critical issue that hinders the buildup of robust and reliable biosensor devices.

The track is going to cover the recent progress in biosensors development, specially focusing on the design, properties and action of micro- and nanostructured biosensing interfaces between (bio)organic materials and other materials (metals, semiconductors, dielectrics). All types of physical transducers and other support substrates, modified for biosensing, could fall under the scope (electrical, electrochemical, optical, piezoelectric MEMS, microelectronic CMOS, micro- and nanofluidic papers, etc.).

Topics include, but not limited to:

- Elaboration and characterization of micro- and nanostructured biosensing interfaces based on organic polymers, membranes and liquid crystals, supramolecular complexes, MOFs, 2D and 3D nanomaterials, biosensing inks, and other smart materials.
- Techniques and approaches for biomodification of physical transducers (surface chemical modification, thin films deposition and printing, nanopatterning, self-assembling, grafting and LbL approaches, micro- and nanofluidics, etc.
- Studies on the properties and physicochemical processes that govern analyst (signal) recognition, detection and transduction in biosensing interfaces.

- Development and applications of new prototypes of biosensor devices in Biomedicine, Environmental Protection, Defense and Security.

Researchers from organic and molecular electronics, physicists, chemists, engineers from academia and industry, engaged in design, development and production of biosensors, are called to present and discuss their results, innovative ideas and outlooks. Preliminary results from ongoing research projects also could be presented.

Important Datelines

- Inform the Chair (see Contacts below): as soon as you decided to contribute
- Submission: ~~June 1~~ **July 10**
- Notification: ~~July 2~~ **July 30**
- Registration: ~~July 16~~ **August 10**
- Camera ready: ~~July 22~~ **August 10**

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=ICQNM+2018+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

Contacts

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ICQNM logistics: steve@iaia.org