

# Call for Contributions

## Submission:

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

2. **Submission URL:**

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

Please select Track Preference as **PHOSE**

Special track

## **PHOSE: Photonic Sensing**

### **Chair and Coordinator**

Vittorio M.N. Passaro, PhD, Associate Professor, Politecnico di Bari, Italy [vittorio.passaro@poliba.it](mailto:vittorio.passaro@poliba.it)

along with

**SENSORDEVICES 2018**, The Ninth International Conference on Sensor Device Technologies and Applications

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

<http://www.iaria.org/conferences2018/SENSORDEVICES18.html>

Nowadays, photonic sensors are becoming more and more pervasive and used in an increasing, huge field of applications, going from physical to chemical to biochemical analytes. In particular, the development of Silicon Photonics involves a number of crucial areas of investigation as light selectively guiding and transporting, light encoding, detecting, amplification and generation, as well as device packaging. Among a number of integrated photonic devices in silicon, micro and nanophotonic sensors are knowing a strong development at laboratory and industrial levels, with the aim to go towards truly portable Lab-on-chip systems. Integrated optical architectures are developed for a number of optical sensing applications for detection of physical, chemical or biological analytes, including liquids, gases, viruses, bacteria, toxins, proteins, DNA, RNA, among others. In addition, fiber optic architectures are largely investigated and applied for several sensing purposes, including biomedical applications.

Prospective authors are invited to submit original papers on various aspects of photonic sensing in silicon as well as in fiber optics, including theory, experiments, integration and applications.

**Authors are invited to submit** complete unpublished papers, which are not under review in any other conference or journal in the following, but not limited to:

- Theory and modeling of integrated optical sensors
- Fabrication of nanophotonic sensors in silicon and related materials
- Recent advances in optical sensing in silicon
- New aspects or principles of optical sensing
- Point-of-care and lab-on-chip integration of silicon sensors
- New strategies of surface (bio)functionalization for silicon sensors
- Photonic architectures for gas sensing
- Optomechanical devices for sensing
- Fiber optic sensing
- Integrated photonic sensing in other Group IV material platforms

### **Important Datelines**

- Inform the Chair (see Contact below): As soon as you decided to contribute

- Submission: ~~June 4~~ **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.aria.org](http://www.aria.org)]
- Presentations: slide only [slide-deck posted on [www.aria.org](http://www.aria.org)]
- Demos: two pages [posted on [www.aria.org](http://www.aria.org)]

### **Paper Format**

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

### **Publications**

- Extended versions of selected papers will be published in IARIA Journals: <http://www.ariajournals.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.ariasubmit.org/conferences/submit/newcontribution.php?event=SENSORDEVICES+2018+Special>

Please select Track Preference as **PHOSE**

### **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.aria.org/registration.html>

### **Contacts**

Chair: Vittorio Passaro, [vittorio.passaro@poliba.it](mailto:vittorio.passaro@poliba.it)

SENSORDEVICES logistics: [steve@aria.org](mailto:steve@aria.org)