



## Call for Contributions

### 1. Inform the Chair

### 2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ALLSENSORS+2024+Special>

Please select Track Preference as **POROUSens**

**3. Note:** For 2024, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.

Special track

## **POROUSens: Current Trends and Future Directions on Porous Composites for Sensing Devices**

### Chair

Assoc. Prof. Dr. Sandrine Bernardini  
Aix-Marseille University  
email: [sandrine.bernardini@univ-amu.fr](mailto:sandrine.bernardini@univ-amu.fr)

along with

## **ALLSENSORS 2024: The Ninth International Conference on Advances in Sensors, Actuators, Metering and Sensing**

<https://www.iaria.org/conferences2024/ALLSENSORS24.html>

May 26 - 30, 2024 - Barcelona, Spain

The design of porous composite sensors requires a multidisciplinary approach that considers the material's structural, electrical, and mechanical properties to meet the specific requirements of the sensing application. The diverse applications of porous composite sensors in various sensing devices, include pressure, organic vapor, gas and tension sensors.

This special track will focus on the design and use of porous composites in sensor technology, as well as their potential applications in creating advanced sensing devices.

### Topics include, but not limited to :

- What are the benefits of using soft-porous materials for sensing devices?
- Challenges in designing porous composite sensors
- Novel design strategy to fabricate porous composite sensors for specific applications
- Compatible detection methods for sensing devices using porous composite materials
- Characterization of the porous composites (structure, porosity, stability, mechanical properties)

- Response time of the porous composite sensors
- Methods for preparing nanoporous composites
- Surface functionalization
- Heterojunction
- Metrology and calibration for porous composite sensors
  - Conduction model of porous composite sensors
  - Applications (health, environment, agriculture, manufacturing, safety, etc.)

### 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](http://www.iaia.org)]
- Presentations: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Demos: two pages [posted on [www.iaia.org](http://www.iaia.org)]

### Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: April 10  
 Notification: April 28  
 Registration: May 8  
 Camera-ready: May 8

*Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.*

### 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=ALLSENSORS+2024+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>

### Contact

Chair: Sandrine Bernardini; [sandrine.bernardini@univ-amu.fr](mailto:sandrine.bernardini@univ-amu.fr)

Logistics (Steve McGuire): [steve@iaia.org](mailto:steve@iaia.org)