

## Call for Contributions

### Note: Onsite and Online Options

In order to accommodate a large number of situations, we are offering the option for either physical presence or virtual participation. We would be delighted if all authors manage to attend in person, but are aware that special circumstances are best handled by having flexible options.

### Submission:

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

**2. Submission URL:**

<https://www.iasubmit.org/conferences/submit/newcontribution.php?event=SENSORDEVICES+2020+Special>

Please select Track Preference as **TGS**

Special track

## TGS: Trends in Geomatic Sensors

### Chairs and Coordinator

Prof. Valerio Baiocchi, PhD., Sapienza University of Rome – Rome, Italy  
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Prof. Francesca Giannone, PhD., Niccolò Cusano University – Rome, Italy  
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along with

**SENSORDEVICES 2020**, The Eleventh International Conference on Sensor Device Technologies and Applications

November 21, 2020 to November 25, 2020 - Valencia, Spain

<http://www.iaia.org/conferences2020/SENSORDEVICES20.html>

The exponential diffusion of new and low-cost sensors for geomatic applications has become a fundamental aspect for the development of new applications that are fast, efficient, flexible and accurate.

The miniaturization of some geomatic sensors and a simultaneous diffusion of sensors with adequate performance and reduced costs has allowed the great spread of new applications in the field of metric surveying, an obvious example is miniaturization of navigation systems that has allowed the great diffusion of UAVs - Unmanned Aerial Vehicles with photogrammetric capabilities.

The main objective of this track is to explore the landscape of this new and/or low-cost sensors and to validate new procedure and application in term of performance and accuracy; the topics mainly investigated will involve photogrammetric and positioning sensors, such as smartphones with built-in geomatic sensors, new sensors for UAV platforms, new high resolution camera, dual-frequency GNSS receiver (GPS, Galileo, Glonass, Beidu), 3D laser scanner, and the new-generation of Lidar scanners.

The application fields, such as 3D modeling for archaeological or architectural point of view, mobile mapping, and so on are increasingly developing.

**Authors are invited to submit** complete unpublished papers, which are not under review in any other conference or journal on the following topics, but not limited to:

- New and/or low-cost sensors on mobile device;
- High resolution camera;

- GNSS receiver (GPS, Galileo, Glonass, Beidu);
- 3D laser scanner;
- New-generation of Lidar scanner;
- Smartphones with built-in geomatic sensors;
- Accuracy assessment of new geomatic sensors;
- 3D reconstruction from images and laser sensors;
- Integration of different sensors;
- Real-time processing;
- Mobile mapping.

### **Important Datelines**

- Inform the Chair (see Contact below): As soon as you decided to contribute
- Submission: Sep 21, 2020
- Notification: Oct 11, 2020
- Registration: October 21, 2020
- Camera-ready: October 21, 2020

### **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)]

### **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=SENSORDEVICES+2020+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**

Chairs

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