Call for Contributions for

Submission:

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

2. Submission URL:

https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SENSORDEVICES+2021+Special

Please select Track Preference as **MLS-RSUAV**

3. Note: *For 2021, 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

MLS-RSUAV: Machine Learning and Classical Signal Processing Algorithms Applied to Robotics and Sensor Data Collected from UAVs Security Solutions for Mission Critical Applications

Chair
Professor Antonio L. L. Ramos, PhD,
University of South-Eastern Norway (USN), Norway
antonior@usn.no

along with

SENSORDEVICES 2021, The Twelfth International Conference on Sensor Device Technologies and Applications https://www.iaria.org/conferences2021/SENSORDEVICES21.html
November 14-18, 2021 - Athens, Greece

Robotics and Unmanned Aerial Vehicles (UAV) related applications are experiencing huge growth in popularity driven by global competition and converging of technologies. Classical Signal Processing Algorithms, and more recently, Machine Learning (ML) are essential for the processing of the great variety of sensor data and, therefore, play a major role in the core of the development of these new technologies and applications.

Typical data range from acoustical, heat, pressure, electromagnetic, to name a few, and can be processed in the form of unidimensional streams or multidimensional data such as images.

Topics include, but are not limited to:

- Search and rescue missions
- Path planning
- Processing of audio and images collected from drones
- U-space related applications
- Predictive maintenance
- Robotics
- Signal processing

Important Datelines

Inform the Chair: As soon as you decide to contribute.
Submission: October 1, 2021
Notification: October 15, 2021
Registration: October 25, 2021
Camera ready: October 25, 2021

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

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.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html [both LaTex and .doc templates]
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html
- More information on camera ready preparations will be posted after the paper notifications are sent out.

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.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.iariasubmit.org/conferences/submit/newcontribution.php?event=SENSORDEVICES+2021+Special
Please select Track Preference as **MLS-RSUAV**

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.iaria.org/registration.html

Contacts
Antonio L. L. Ramos, antonior@usn.no
SENSORDEVICES Logistics: steve@iaria.org