

## Call for Contributions

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

**Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SIGNAL+2017+Special>

Please select Track Preference as **SIVPR**

Special track

### **SIVPR: Time-constrained Signal, Image and Video Processing in Robotics**

**Chair and Coordinator:**

Prof. Dr. Antonio J. R. Neves, University of Aveiro, Portugal  
[an@ua.pt](mailto:an@ua.pt)

along with

**SIGNAL 2017, May 21 - 25, 2017 - Barcelona, Spain**

The Second International Conference on Advances in Signal, Image and Video Processing  
- from Sensing to Applications –

<http://www.iaria.org/conferences2017/SIGNAL17.html>

Robots and autonomous systems have been equipped with several different sensors allowing solutions with enhanced features, mostly due to the advances in signal processing, which provides efficient and appropriate analysis of sensor data and enable autonomy. Over the last years, signal processing has witnessed significant changes but there are still several open challenges.

New imaging and communication technologies have improved individual capabilities to interact with the environment in a multi-modal manner. The key to success will be to combine new innovations with strong theoretical foundations and understand the requirements of practical implementations.

This thematic track will provide an opportunity to bring together researchers with interests in signal processing applied to robots and autonomous systems. This special session aims to receive contributions regarding innovative concepts, methodologies and techniques in the field of robotics, computer vision and signal processing, as well applications of these developments to solving practical problems.

**SVIPR solicits submissions from the following areas of interest:**

- Human-robot interaction
- Localization, mapping and navigation
- Vision-based control
- Object detection, segmentation and categorization
- Semantic scene understanding and categorization
- Robustness and generalization of algorithms to conditions and environments
- Multimodal sensor fusion
- Sensor calibration
- Signal processing architectures
- Real-time and efficient solutions for applications

### **Important Datelines**

- Inform the Chair: As soon as you decided to contribute

- Submission: ~~February 3~~ **April 13**
- Notification with comments for camera-ready: ~~March 3~~ **April 20**
- Registration: ~~March 18~~ **April 29**
- Camera ready: ~~April 9~~ **April 29**

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

### **Paper Format**

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

### **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=SIGNAL+2017+Special>

Please select Track Preference as **SIVPR**

### **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>

### **Contact**

Prof. Dr. Antonio J. R. Neves, University of Aveiro, Portugal [an@ua.pt](mailto:an@ua.pt)

Logistics: [steve@iaria.org](mailto:steve@iaria.org)