

## IEEE International “Sensors and Measurement” Student Contest

### IEEE IS&M-SC



### Announcement and Call for participation

Welcome to the **second edition** of the **IEEE International Sensors and Measurement Systems Student Contest!**

This international competition addresses teams of advanced undergraduates (particularly those in fast-track, dual BS/MS, Master programs), Master and Ph.D. students and aims to stimulate innovative ideas for applications in the area of sensors and measurement systems.

The IEEE International Contest of Sensors and Measurement Systems is jointly promoted and organized by **IEEE Instrumentation and Measurement Society (IMS)** and **IEEE Sensors Council (SC)** and is sponsored by **STMicroelectronics** that will provide the SensorTile® kit ([www.st.com/sensortile](http://www.st.com/sensortile)) that will be the common technology platform of the contest.

Those willing to participate will have to submit a proposal, will have to develop their application at their University laboratories and attend one of the scheduled live demonstration sessions co-located with international conferences in the areas of sensors and instrumentation and measurement. For each demonstration event, two awards will be assigned (1<sup>st</sup> and 2<sup>nd</sup> place) for the best “Sensors and Measurement Systems” application.

The IEEE IS&M-SC participants will have to autonomously secure funding for travel and living expenses to attend the demo session. Students participating in the live demonstration session of the IEEE IS&M-SC will receive a free one-day pass for the conference while for those interested in attending the whole conference student registration rate applies.

#### Venues for Live Demo Sessions

- **IEEE SENSORS Conference**, Oct. 28 –31 2018, New Delhi, India
- **IEEE Sensor Application Symposium**, March 11-13 2019,

Nice, France

- **IEEE INERTIAL 2019**, April 1-4 2019, Naples, FL, USA
- **IEEE International Instrumentation and Measurement Technology Conference (I<sup>2</sup>MTC)**, May 20-23 2019, Auckland, New Zealand

#### Preparation and submission of proposals

Technical proposal (maximum three pages) must include:

- the technical description of the project
- the significance of the application proposed
- the measurement methodology that will be implemented
- the planned use of the STMicroelectronics Sensor Tile® ([www.st.com/sensortile](http://www.st.com/sensortile)) platform and how the proposal exploits its potentials
- the demo planned with a detailed list of goals

Participating teams will include a maximum of four members and must identify a faculty member at their University who will act as mentor and point of contact with respect to the organizing committee.

In addition to the three-pages of technical proposal, the submission package must include:

- one-page short resume of the team members (one page for the whole team)
- one-page presentation letter, signed by the mentor, to confirm that the University laboratories will be available for the development of the project (including the address and contact info of the mentor, this is the address where the SensorTile® platform will be shipped if the team is selected)
- the commitment of the team members to attend the live demo session at the chosen venue on their own funds.

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## How to submit

Submission package, one single pdf file including:

- technical project proposal (max three pages)
- names, short CVs and affiliation of the team members (one page in total)
- signed letter of commitment to attend the live demo session at the selected venue
- letter of endorsement for the project signed by one Faculty member acting as mentor, which must include a statement that the team will have access to the University laboratory facilities to develop the project and the address to where the Sensor Tile platform must be shipped.

The submission package should be addressed to Ms Brooke Johnson ([bjohnson@conferencecatalysts.com](mailto:bjohnson@conferencecatalysts.com)).

## Proposals selection criteria

The organizing committee will evaluate the proposal submitted based on the following criteria:

- scientific excellence
- novelty
- potential impact
- quality of the planned demo

Teams will be notified about the evaluation outcome shortly after the proposal submission deadline.

## Demonstration evaluation criteria

An ad-hoc commission will review the demos and will provide evaluation based on:

- Adherence to the proposal submitted
- Technical excellence of demo
- Quality of demo presentation

Only those demos that will successfully demonstrate at least a large part of the goals stated in the proposal will be eligible for the award.

**Two IEEE Awards** will be given to the two best **Sensor and Measurement Systems** applications at each one of the planned Demo Sessions.

**1st Prize: 2,000.00 USD      2nd Prize: 1,000.00 USD**

## Organizing IEEE Bodies

- IEEE Instrumentation and Measurement Society
- IEEE Sensors Council

## Industry Sponsor

- STMicroelectronics

## Organizing and Proposal Selection Committee

### General co-chairs

Prof. Salvatore Baglio, University of Catania, Catania, Italy,  
([salvatore.baglio@unict.it](mailto:salvatore.baglio@unict.it))

Prof. Mike McShane, Texas A&M University, College Station, TX, USA, ([mcs Shane@tamu.edu](mailto:mcs Shane@tamu.edu))

### Co-chairs IEEE Sensor Council

Prof. Deepak Uttamchandani, University of Strathclyde, Glasgow, UK, ([d.uttamchandani@strath.ac.uk](mailto:d.uttamchandani@strath.ac.uk))

Prof. Yu-Cheng Lin, National Cheng Kung University, Tainan City, Taiwan, ([yuclin@mail.ncku.edu.tw](mailto:yuclin@mail.ncku.edu.tw))

### Co-chairs IEEE Instrumentation and Measurement Society

Prof. Sergio Rapuano, Università del Sannio, Benevento, Italy, ([rapuano@unisannio.it](mailto:rapuano@unisannio.it))

Dr. Chi Hung Hwang, NARLabs, Hsinchu, Taiwan, ([chhwang@itrc.narl.org.tw](mailto:chhwang@itrc.narl.org.tw))

## When to submit: Deadlines

### June 15<sup>th</sup> 2018

For live demonstration session at IEEE SENSORS Conference, Oct. 28 –31 2018, New Delhi, India.

### October 15<sup>th</sup> 2018

For live demonstration session at IEEE Sensor Application Symposium, March 11-13 2019, Nice, France.

### November 15<sup>th</sup> 2018

For live demonstration session at IEEE INERTIAL 2019, April 1-4 2019, Naples, FL, USA.

### December 15<sup>th</sup> 2017

For live demonstration session at IEEE International Instrumentation and Measurement Technology Conference (I2MTC), May 20-23 2019, Auckland, New Zealand

