



IEEE APSCON 2023

IEEE Applied Sensing Conference
Bengaluru, India // 23-25 January 2023



IEEE Sensors Council

CALL FOR PAPERS

IMPORTANT DATES

10 September 2022
Paper Submission Deadline
(*Extended*)

31 October 2022
Notification of Acceptance

15 November 2022
Final Submission

Organizing Committee

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Institute of Smart Structures and Systems (ISSS)

Join us for the inaugural Applied Sensing Conference (APSCON) on January 23-25, 2023 in Bengaluru, India! APSCON will be a three-day event with one day of industry engagement and two days of technical sessions.

CONFERENCE TRACKS

APSCON will connect researchers, practitioners and engineers from industry and academia applying the sensing techniques for verticals such as:

- » Sensing for Agriculture
- » Sensing for e-Mobility
- » Joint Sensing, Communications and Localization
- » Sensing for Smart and Connected Healthcare
- » Crowdsensing and Intelligent Sensing
- » Habitat and Environment Monitoring
- » Sensing for Critical Infrastructure
- » Internet of Senses
- » Sensing for Industry 4.0
- » Sensing for Energy
- » Sensing in Security
- » Sensing for Smart City and Village
- » Sensing for Sports and Entertainment
- » Sensing for Education

Publication of Papers in Conference Proceedings and IEEE Sensors Letters

At the time of acceptance to the conference, selected authors will be intimated to consider the submission of their APSCON 2023 paper to IEEE Sensors Letters. Such authors will be required to submit the IEEE Sensors Letters compliant paper by November 30, 2022.

All IEEE APSCON 2023 accepted and presented papers that meet IEEE's quality standards will either be published in the Conference Proceedings or, if accepted to IEEE Sensors Letters through the peer review process, as a regular letter in the IEEE Sensors Letters journal and will be appropriately linked in the conference proceeding.

Industry Day

Full of industry-led activities, thematic round-table meetings, focused sessions, keynote talks, tutorials/workshops. It will also have discussion on sensors standards development (focused session on Sensors Standards Opportunities). This conference encourages industry professionals to present their state-of-the-art work which may not go into the proceedings (if they wish so). Industry engagement is also invited through work-in-progress demos, Breaking News, networking opportunities.

Sensors Startup Summit

The emerging ecosystem of startups will be invited to network and get together to share their success-stories, opportunities, marketplace and technological challenges. Mentor-Mentee session will be planned for the young startups.

Students Research Forum

We invite advanced stage PhD work and completed theses (not older than 6 months), MTech/MS theses and undergrad high level research projects to present and get inputs from the experts. This will give these aspiring students a platform to network, improve their work besides exploring post-doctoral opportunities and/or job offers.

For further information contact **Caroline Kravec**,
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For more information please visit 2023.ieee-apscn.org



Sensing for Agriculture

Sensors and Systems for micro/macro nutrients, water conservation, soil health monitoring, IoT solutions for making agriculture sustainable and profitable

Sensing for e-Mobility

Warnings and assistance to drivers, lane centering, adaptive cruise control, sensors for self-driving at all times, traffic management, improve safety, reduce pollution, infotainment

Joint Sensing, Communications and Localization

Integration of heterogeneous sensing and communication to enhance resilience, reliability and confidence. Approaches for convergence of communication, sensing and localization in one integrated platform.

Sensing for Smart and Connected Healthcare

All types of wearable medical devices and internet of things gadgets to enable continuous patient monitoring and treatment even when patients are at remote locations.

Crowdsensing and Intelligent Sensing

Crowdsensing and participatory sensing systems for applications such as surveillance, security, etc.

Habitat and Environment Monitoring

Cost-effective, networked sensors and systems to monitor air pollution, water quality, soil, sediments etc., bio-diversity. Unusual variation of environmental parameters etc., sensors and systems for addressing climate changes.

Sensing for Critical Infrastructure

Sensors and systems for structural health monitoring, prediction of catastrophic events, prevent un-authorized access to a restricted area, anomalies in the functioning of electrical equipment, Disaster response system.

Internet of Senses

Digital sensory experiences of visual, audio, haptic, and other technologies, sensors to augment our senses etc. Beyond vision and sound, IoS can allow humans to simultaneously sense the world by means of touch, smell, and taste.

Sensing for Industry 4.0

Sensors and systems to monitor different industrial processes for health and safety purposes, data collection, analytics, remote operation, smart manufacturing. Sensors and systems for achieving carbon-neutral in industry practices.

Sensing for Energy

Sensors and systems to enhance the safety, security and environmental sustainability of energy production, distribution, storage and consumption.

Sensing in Security

Sensors and systems for non-intrusive and networked monitoring of critical installations, airports, transport vehicles, homes etc., including homeland and defense security.

Sensing for Smart City and Village

Sensors and systems for optimum utilization of natural resources and energy, transport planning and mobility, environmental sources of pollution, improvement of quality of life and security.

Sensing for Sports and Entertainment

Sensors and systems for monitoring and improving the athletic performance, creating fair judgement, increasing participant interaction for online and off-line sports and gaming for an immersive experience.

Sensing for Education

Sensors and systems for delivery, supervision, assessment and social interaction to measure, monitor and provide real-time learning outcome information with a goal to improve learning outcomes.

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