

### Istanbul, Türkiye

Welcome to Istanbul, a city that harmoniously blends its storied past with a burgeoning focus on technology and science. Situated at the crossroads of Europe and Asia, Istanbul's strategic location has facilitated centuries of cultural exchange and trade, making it a melting pot of diverse influences.

While Istanbul is renowned for its historical landmarks, it is also making strides in the world of technology and innovation. The city has witnessed a surge in entrepreneurial activity, with a startup ecosystem and tech-driven initiatives. Homegrown startups and international tech companies have found a fertile ground in Istanbul, with its vibrant market and diverse consumer base.



Beyond its historical allure, Istanbul houses world-class research institutions and universities, making it an appealing destination for scientists and academics. Researchers in various fields find ample opportunities to collaborate and exchange knowledge with their Turkish counterparts. The city regularly hosts international conferences, symposiums, and workshops, where experts convene to explore cutting-edge advancements in

science and technology. reputation as a major hub for international business and collaboration.

In conclusion, Istanbul stands as an ideal destination for the conference "Leverage of IT in Engineering and Science." With a growing emphasis on technology and innovation, the city offers a dynamic and inspiring backdrop for scholars and experts to converge and explore the intersection of IT, engineering, and science. Participants of the conference will have the opportunity to engage with its modern IT and tech-driven initiatives and engineering companies that have established a presence in Turkey, contributing to the city's reputation as a major hub for international business and collaboration.

#### Contact

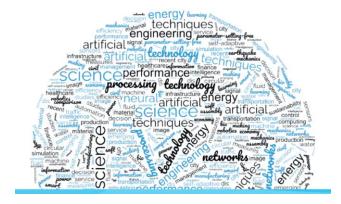
For submissions and further information:

e-mail: lites2025@tau.edu.tr

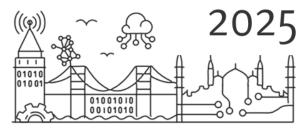
website: lites2025.tau.edu.tr

### Venue

Turkish-German University Şahinkaya Cad. 106 - 34820 Beykoz / İSTANBUL +90 (216) 333 30 00, Deutschsprachige Anrufer/Calls from abroad: +90 (216) 333 30 04







LITES

Leverage of IT for Engineering and Science

Sensors and Actuators Workshop











### Content

The Leverage of IT for Engineering and Science (LITES) Workshop on Sensors and Actuators 2025 will take place on **9–10 October 2025** at the **Turkish-German University** in **Beykoz, Istanbul, Türkiye.** Organized in collaboration with the **Technical University of Berlin** and the **University of Potsdam,** this event builds on the success of the inaugural **LITES 2023** and continues the biennial series.

LITES 2025 will offer a dynamic platform for interdisciplinary exchange, bringing together experts and practitioners to explore the growing role of sensors and actuators in shaping intelligent systems. As digitalization and technological advancement continue to transform both science and industry, the workshop will highlight cutting-edge developments in sensor and actuator technologies, their integration with artificial intelligence, and applications spanning production systems, automotive engineering, and healthcare.

The workshop fosters collaboration between academia and industry, supporting knowledge exchange and the development of technology-driven solutions. Alongside expert presentations, it will host discussions that bridge scientific insights with real-world applications.





## Sessions

- **Session 1:** Advanced Sensing Technologies
- **Session 2:** Actuator Developments
- Session 3: Integration with Intelligent Systems
- **Session 4:** Sensors and Actuators in Robotics
- **Session 5:** Application Domains
- Industry Session: Demonstration of the State-of-the
  Art Systems
- Roundtable Meeting: Open Discussion on Future
  Cooperation



# Registration

Participation in the LITES 2025 Workshop on Sensors and Actuators is **free** of charge for all attendees.

For invited speakers from outside Türkiye, travel expenses and accommodation costs will be covered by the DAAD (German Academic Exchange Service) in accordance with the German Federal Travel Expenses Act (Bundesreisekostengesetz).

The workshop will feature dedicated **poster sessions**, and the participation of **graduate students and postdoctoral researchers is strongly encouraged**.

Please note that the workshop will be held entirely in person, and remote participation will not be possible.

Please confirm your participation and indicate your preferred session (Session 1–5) along with the title of your presentation by August 15, 2025, via email to:

### lites2025@tau.edu.tr

