

Bonn, November 23 – 25, 2026



18th Symposium Sensor Data Fusion: Trends, Solutions, and Applications

Call for Papers

Motivation

To a degree never known before, human decision makers or decision making systems have access to a vast amount of data. Therefore, real-time data streams must not overwhelm the actors involved. On the contrary, the data are to be fused to high-quality information to provide a reliable decision support. Being a challenging exploitation technology at the common interface between sensors, command & control systems, data and information fusion has a large potential for future security and ISR systems in defence and civilian applications.

Scope

Sensor Data Fusion techniques provide higher-level information by spatio-temporal data integration, the exploitation of redundant and complementary information, and the available context. Important applications exist in logistics, advanced driver assistance systems, medical care, public security, defence, aerospace, robotics, industrial production, precision agriculture, traffic monitoring, sensor positioning, and resource management.

Plenary Talk



Plenary Talk: Machine Learning Methods for Trustworthy Autonomous Systems with Uncertainty Quantification
by Lyudmila Mihaylova

Key Aspects

- Distributed sensor fusion in complex scenarios
- Fusion of heterogeneous sensor information
- State estimation
- Exploitation of non-sensor context knowledge
- Artificial Intelligence
- Autonomous systems
- Sensor and resources management

Participants

The symposium addresses end users, software developers, research engineers, and scientists working in the area of sensor data fusion. They get insight into current research trends, innovative algorithms/system solutions, and new applications in a prospering evolving branch of applied informatics.

Fees

€ 399.-	Students
€ 449.-	ISIF or AESS Members
€ 499.-	Regular

- For the student registration a proof of the student status is required.
- One registration covers one paper only.

Contributions

Prospective authors are encouraged to submit high-quality full draft papers (6-8 pages, IEEE format). All submissions are subject to a peer-review process by the technical program committee. Accepted and presented papers will be submitted to IEEE for publication. At least one of the authors of each accepted contribution is expected to register for the Symposium, which will be held in Bonn, Germany, and to present the paper. Submissions can be uploaded to the CMT system at <https://cmt3.research.microsoft.com/SDF2026>. For more details contact www.fkie.fraunhofer.de/sdf2026.

Important Dates (new: extended deadlines!)

24.08.2026	Submission of full draft papers
06.10.2026	Notification of acceptance
03.11.2026	Submission of the final version
13.11.2026	Registration closure
23.11.2025	Start of SDF Symposium