
# 14th 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:** Towards Using Large-Scale Sequential Monte Carlo to Get Big Information out of Small Data by Simon Maskell.

## Key Aspects

- Distributed sensor fusion in complex scenarios
- Fusion of heterogeneous sensor information
- Exploitation of non-sensor context knowledge
- Artificial Intelligence of autonomous systems
- Risk analysis / data driven sensor management

## Fees

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| € 199.- | Students |
| € 399.- | ISIF or AESS Members |
| € 449.- | IEEE 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 (4-6 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. For details contact `www.fkie.fraunhofer.de/sdf2022`.

## Important Dates

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| 31.08.2022 | Submission of full draft papers |
| ~~15.09.2022~~ | ~~Notification of acceptance~~ |
| 26.09.2022 | Notification of acceptance |
| ~~29.09.2022~~ | ~~Submission of the final version~~ |
| 07.10.2022 | Submission of the final version |
| 12.10.2022 | Start of SDF Symposium |

## Organisation

Executive Chairs: **Wolfgang Koch**, Fraunhofer FKIE and University of Bonn, w.koch@ieee.org; **Peter Willett**, University of Connecticut, USA, p.willett@ieee.org.
Technical Program Chair: **Felix Govaers**, Fraunhofer FKIE, Germany.

## Technical Program Committee

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