

Bonn, November 25 – 27, 2024



16th 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.

Keynote



Plenary Talk: Daniel Cremers - 3D Computer Vision for Dynamic Scene Understanding.

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

€ 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 (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. For details contact www.fkie.fraunhofer.de/sdf2024.

Important Dates

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| 12.08.2024 | Submission of full draft papers |
| 30.09.2024 | Notification of acceptance |
| 18.11.2024 | Submission of the final version |
| 25.11.2024 | Start of SDF Symposium |

Organisation

Executive Chairs: **Wolfgang Koch**, Fraunhofer FKIE and University of Bonn, **Felix Govaers**, Fraunhofer FKIE, Germany.

Technical Program Chair: **Martin Herrmann, Hensoldt,**

Technical Program Committee

Allan De Freitas, University of Pretoria, ZAF Anton Kullberg, Linköping University, SWE Benjamin Noack, Otto von Guericke University Magdeburg, GER Bernhard Krach, Airbus, GER Bharanidhar Duraisamy, Daimler Research, GER Chee-Yee Chong, Independent consultant, GER Darin Dunham, Lockheed Martin, GER David Cormack, Leonardo, UK Dietrich Fraenken, Hensoldt Sensors GmbH, GER Florian Pfaff, University of Stuttgart, GER Fred Daum, Raytheon, USA Fredrik Gustafsson, Linköping University, SWE Gokul Nair, Addverb Technologies, Noida, Delhi-NCR, IND Gordon Lee San, Diego State University, USA Gustaf Hendeby, Linköping University, SWE Ivo Punčochář University of West Bohemia, CZE Jan Krejčí, University of West Bohemia, CZE Jesus Garcia, Universidad Carlos III, ESP Jiri Ajgl, University of West Bohemia, CZE Klaus-Dieter Sommer, Technische Universität Ilmenau, GER Lauro Snidaro University of Udine, ITA Lukas Buntkiel, Helmholtz-Dresden Dresden-Rosendorf, GER Lyudmila Mihaylova, University of Sheffield, UK Manon Kok, Delft University of Technology, NED Marcus Baum, University of Goettingen, GER Martin Michaelis, University of the Bundeswehr Munich, GER Martin Ulmke, Fraunhofer FKIE, GER Michalis Vrigkas, University of Western Macedonia, GRE Mohammed Jahangir University of Birmingham, UK Murat Kumru, Volvo, TK Ondrej Straka, University of West Bohemia, CZE Patrick Hoher, HTWG Konstanz, GER Philipp Heidenreich, Opel Automobile GmbH, GER Roy Streit, Metron, USA Stefano Coraluppi, STR, USA Stephan Reuter, Robert Bosch GmbH, GER Thomas Henderson, University of Utah, USA Tim Baur, HTWG Konstanz, GER Umut Orguner, Middle East Technical University, TK