

Bonn, October 9 – 11, 2018



12th 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: Integrating learning and knowledge for robust sensor data fusion
By Chee-Yee Chong.

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

€ 149.-	Students and public agencies
€ 299.-	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/sdf2018.

Important Dates

- 08.07.2018 Submission of full draft papers
- 07.09.2018 Notification of acceptance
- 21.09.2018 Submission of the final version
- 09.10.2018 Start of SDF 2018

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

Marcus BAUM, University of Göttingen, GER; Jürgen BEYERER, Fraunhofer IOSB, GER; Dale BLAIR, GTRI, USA; Alexander CHARLISH, Fraunhofer FKIE, GER; Chee CHONG, Consultant, CA, USA; Stefano CORALUPPI, STO, MA, USA; Daniel CREMERS, Technical University Munich, GER; Klaus DIETMAYER, University of Ulm, GER; Darin DUNHAM, Lockheed Martin, USA; Bharanidhar DURAISAMY, Daimler, GER; Murat EFE, Ankara University, TK; Frank EHLERS, FWG, GER; Herve FARGETON, DGA Tn, FR; Dietrich FRÄNKEN, Airbus Defence and Space, GER; Jesus GARCIA, University Carlos III, Madrid, ES; Fredrik GUSTAFSSON, Linköping University, SW; Uwe D. HANEBECK, Karlsruhe Institute of Technology, GER; Reinhard KLEIN, University of Bonn, GER; Dirk KOLB, MEDAV, GER; Wolfgang KONLE, Airbus Defence and Space, GER; Tim KREUTZMANN, Continental, GER; Joerg KUSHAUER, Diehl BGT, GER; Dann LANEUVILLE, DCNS, FR; Henry LEUNG, University of Calgary, CA; Simon MASKELL, University of Liverpool, UK; Lyudmila MIHAYLOVA, University of Sheffield, UK; Shozo MORI, ST Research, CA, USA; Gee Wah NG, DSO, SGP; Felix OPTIZ, Airbus Defence and Space, GER; Umut ORGUNER, University of Ankara, TR; Stefan REUTER, University of Ulm, GER; Eicke RUTHOTTO, Atlas, GER; Ulrich SCHEUNERT, FusionSystems, GER; Lauro SNIDARO, University of Udine, IT; Roy L. STREIT, Metron Inc., USA; Jörn THIELECKE, Universität Erlangen, GER; Reiner THOMÄ, Technical University Ilmenau, GER; Martin ULMKE, Fraunhofer FKIE, GER; Anthony WEISS, Tel Aviv University, IS; Bin YANG, University of Stuttgart, GER; Alexander YAROVY, TU Delft, NL