10th Workshop 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.

Tutorial and Plenary Talk

Tutorial: A tutorial introduction to advanced methods and applications in sensor data fusion. By Wolfgang Koch.

Plenary Talk: Recent Advances in Bayesian Methods for Tracking Groups, Extended Objects and Challenges with Big Data. By Lyudmila Mihaylova.

Key Aspects

- Distributed sensor fusion in complex scenarios
- Fusion of heterogeneous sensor information
- Exploitation of non-sensor context knowledge
- Detection & analysis of large scale phenomena
- Risk analysis / data driven sensor management

Fees

€ 99.- Students and public agencies
€ 249.- Regular

For the student registration a proof of the student status is required.

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 papers will be published at the IEEE Xplore data base. At least one of the authors of each accepted contribution is expected to register for the Workshop, which will be held in Bonn, Germany, and to present the paper. For details contact www.fkie.fraunhofer.de/sdf2015.

Important Dates

- 27.07.2015 Submission of full draft papers
- 31.08.2015 Notification of acceptance
- 18.09.2015 Submission of the final version
- 06.10.2015 Start of SDF Workshop

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

Publicity Chair: Stefano Coraluppi, Systems and Technology Research (STR), USA, stefano.coraluppi@ieee.org.

Technical Program Committee

Christoph ARNDT, Ford Research Center Aachen, GER; Jürgen BEYERER, Fraunhofer IOSB, GER; Chee CHONG, Consultant, CA, USA; Daniel CREMERS, Technical University Munich, GER; Darin DUNHAM, Vectraxx, VA, USA; Frank EHLERS, FVG, GER; Herve FARGETON, DGA Tn, FR; Dietrich FRANKEN, Cassidian Electronics, GER; Jesus GARCIA, University Carlos III, Madrid, ES; Fredrik GUSTAFSSON, Linköping University, SW; Uwe D. HANEBECK, Karlsruhe Institute of Technology, GER; Michael KIEFNER, Cassidian Optronics, GER; Reinhard KLEIN, University of Bonn, GER; Dirk KOLB, MEDAV, GER; Wolfgang KONLE, Cassidian Systems, GER; Dann LANEUILLE, DCNS, FR; Simon MASKELL, University of Liverpool, UK; Lyudmila MIHAYLOVA, University of Sheffield, UK; Shozo MORI, ST Research, CA, USA; Gee Wah NG, DSO, SGP; Vincent NIMIER, ONERA, FR; Felix OPTIZ, Cassidian Systems, GER; Umut ORGUNER, University of Ankara, TR; 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; Abdelhak ZOUBIR, Technische Universität Darmstadt, GER.