

FUSION 2018

Cambridge,
United Kingdom
10-13 July 2018

21st International Conference on Information Fusion

CALL FOR PAPERS

The International Conference on Information Fusion is the premier forum for interchange of the latest research in data and information fusion and its impacts on our society. The conference brings together researchers and practitioners from academia and industry to report on the latest scientific and technical advances. Authors are invited to submit papers describing advances and applications in information fusion.

The 21st FUSION conference will be held in Cambridge, United Kingdom, at the Department of Engineering, University of Cambridge, located near the centre of this historic and ancient university town. The colleges, King's College Chapel, the River Cam and the Grantchester Meadows are all within easy walking distance and a must-see for visitors to Cambridge.

TOPICS OF INTEREST

The conference deals with both high-level and low-level data and information fusion. The four main categories and example subcategories (non-exhaustive) are:

1. Theory and representation: probability theory, Bayesian inference, stochastic processes, fuzzy sets, Dempster-Shafer theory and belief functions.
2. Algorithms for target tracking, localization, situational awareness, intent/behaviour/swarm modeling, decision making, data mining, data analytics, sensor/resource management, compressed sensing, pattern analysis, machine learning, deep learning, artificial intelligence, sonar/radar/video tracking, image fusion, data association, distributed fusion, Markov Chain Monte Carlo, sequential MC and sensor registration.
3. Modeling, simulation and evaluation, considering a wide range from target and sensor modeling to fusion/tracking performance evaluation, and simulation tools.
4. Applications of information fusion such as sensor networks, navigation and guidance, aerospace, robotics, imaging, autonomy, computer and homeland security, defense and intelligence, operations research, business intelligence, environmental monitoring, medical care, intelligent transportation, economics and finance, Internet of Things, smart cities, remote sensing and big data.

PAPER SUBMISSION

Prospective authors are invited to submit papers electronically via the system found at the conference web page. Paper templates and submission instructions will be available at the conference website www.fusion2018.org. Submitted papers should be no more than eight pages in length. All papers must be approved for public release prior to submission.

IMPORTANT DEADLINES

Special Session proposals and Tutorial proposals	1 February 2018
Full paper submission	1 March 2018
Notification of acceptance	1 May 2018
Final paper submission and early registration	1 June 2018

General Co-Chairs:

Professor Simon Godsill,
University of Cambridge UK
Professor Lyudmila Mihaylova,
University of Sheffield, UK
Professor Simon Maskell,
Liverpool University, UK

Finance Chair/Treasurer:

Professor Visakan Kadirkamanathan,
University of Sheffield, UK

Program co-chairs:

Dr Wolfgang Koch, FKIE, Germany
Dr Sumeet Singh,
University of Cambridge, UK

Technical co-chairs:

Professor Uwe Hanebeck, Karlsruhe
Institute of Technology (KIT), Germany
Dr Stefano Coraluppi, Systems &
Technology Research, USA
Dr Roy Streit, Metron, USA
Dr Benjamin Noack, Karlsruhe Institute
of Technology (KIT), Germany

Publication co-chairs:

Professor Peter Willett,
University of Connecticut, USA
Dr Daniel Clark,
Telecom SudParis, France
Dr Roland Hostettler,
Aalto University, Finland

Academic co-chairs:

Professor Murat Efe,
Ankara University, Turkey
Dr Simon Julier, University College
London, UK
Professor Xiao-Rong Li,
University of New Orleans, USA
Professor Jonathon Chambers,
Newcastle University, UK

Tutorials chair:

Professor Simo Särkkä,
Aalto University, Finland

Special Sessions chairs:

Professor Gustaf Hendeby,
Linköping University, Sweden
Professor Thomas Schön, Uppsala
University, Sweden

Awards co-chairs:

Professor Yaakov Bar-Shalom,
University of Connecticut, USA
Professor Fredrik Gustafsson,
Linköping University, Sweden
Dr Alan Steinberg, USA

International Liaison Chair

Dr Le Yang, Jiangnan University, China

