

Call for Papers

The IEEE 2022 International Conference on Multisensor Fusion and Integration (IEEE MFI 2022) will take place in September at Cranfield University in the UK. Cranfield University is a British postgraduate public research university specialising in science, engineering, design, technology and management. It is considered to be one of the UK's leading engineering universities. Located near Milton Keynes (home of Bletchley Park), Cranfield is a perfect starting point to visit Liverpool and Manchester.

MFI will be an in person event. However, for participants who are either unable to travel, or are uncomfortable travelling, MFI will have a remote/hybrid option.

Topics

Theory: Probability theory, Bayesian inference, nonlinear estimation, Dempster-Shafer, fuzzy sets, logic, machine learning, neural networks, distributed architectures.

Sensors: RGB cameras, depth cameras, radar and sonar devices, laser scanner, infrared sensors, IMU, gyroscopes.

Algorithms for: tracking and localization, recognition, perception, AI in robotics, cognitive systems, sensor registration, big data, sensor management, distributed sensor systems, SLAM, visual servoing, learning by demonstration.

Applications: Sensor networks, multi-robot systems, distributed and cloud robotics, bio-inspired systems, service robots, automation, biomedical applications, autonomous vehicles (land, sea, air), manipulation planning and control, multifinger hands, micro/nano systems, surveillance, multimodal interface and human robot interaction, navigation, Internet-of-Things, smart cities, cyber-physical systems, Industry 4.0, search/rescue/audition, Field robotics, swarm robotics, force and tactile sensing, surgical robotics, humanoids, soft-bodied robots.

Performance Assessment: Evaluating the performance of multi-sensor systems in the presence of noise and uncertain ground truth, uncertainty modelling in ML models.

Paper Submission

Prospective authors are invited to submit papers electronically via the submission system at the conference website www.mfi2022.com. Paper templates and submission instructions will also be provided there. Submitted papers should be no more than six pages in length. There will be a charge for each additional page beyond the six pages. An author of every paper has to register and all papers have to be approved for public release prior to submittal. Papers accepted will be published at IEEExplore.

Important Deadlines

Full paper submission	29 Jun 2022
Notification of acceptance	19 Aug 2022
Final paper submission and early registration	9 Sep 2022

Organizing Committee

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