

26th International Conference on Information Fusion

June 27-30, 2023
Charleston, South Carolina, USA

Call for Papers

The **International Conference on Information Fusion** has long been recognized as a premier forum for researchers and practitioners to exchange ideas in the field of information fusion and its impacts on our society. Authors (researchers, students, and practitioners) are invited to submit original papers (between 5-8 pages) describing advances in the theory and applications of information fusion. Topics related to information, sensor, or data fusion in an array of areas including theory and representation, algorithms, applications, methods/tools, modeling/evaluation, and artificial intelligence, are welcome.

Submission Guidelines:

Submit full papers (between 5-8 pages) in one or more of the following topics, typically involving some aspect of information, data or sensor fusion. All papers must be original and not simultaneously submitted to another journal or conference. Tutorials and Special Sessions will also be accepted - monitor "Call for Tutorials and Special Sessions" on the fusion2023.org website.

Topics of Interest:

The topics listed below indicate current interests in information, sensor, and data fusion, but the list is not exhaustive.

- **Bayesian Fusion Theory:** Bayesian inference and decision theory; Stochastic processes; Nonlinear filtering and Monte Carlo methods; Random sets, point processes, and finite sets statistics; Multiple hypothesis methods; Factor graphs; Drone and swarm tracking
- **Non-Bayesian Fusion Theory:** Argumentation; Belief functions theory (Dempster-Shafer, Transferable Belief Model); Imprecise probabilities; Credal sets; Possibility and fuzzy set theory; Rough sets; Logical reasoning; Ontologies and semantics; Graphical approaches
- **AI for Fusion:** Artificial Intelligence; Decision making using machine learning; Machine, deep, and transfer learning; One & few-shot learning; Data Mining; Natural language processing; Streaming; Cognitive computing; Computer vision; Database technologies; Quantum computing
- **Low-level Fusion:** Classification and identification; Detection and localization; Automatic Target Recognition; Navigation; Multi-sensor & multi-target tracking; Resource & sensor management;
- **High-Level Fusion:** Situation awareness; Situation assessment; Intent and threat assessment; Swarm intelligence; Decentralized and distributed fusion; Modeling & Simulation; Soft and human data fusion; Internet of Things; AI Safety; Topic modeling; Explainability & interpretability
- **Applications:** Environmental monitoring, precision agriculture; Biomedical engineering; Manufacturing, robotics, and automation; Defense, security, critical infrastructures, surveillance, reconnaissance, search & rescue; Transportation, logistics, operations research, smart cities; Economics, finance; and other applications of interest to the field of information fusion

FUSION 2023 proceedings will be published by the IEEE in IEEEXplore and is Scopus indexed.

Important Deadlines:

- February 1, 2023: Proposals for special sessions/demos
- February 15, 2023: Full paper submission
- March 1, 2023: Proposals for tutorials
- June 1, 2023: Final paper submission

For more info <https://fusion2023.org>

