



FUSION | 2020

23rd International Conference on Information Fusion

Sun City | North-West Province | South Africa
July 6 - 9, 2020

www.fusion2020.org



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CALL FOR PAPERS - FUSION 2020

23rd International Conference on Information Fusion

The International Conference on Information Fusion has long been recognised 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 papers describing advances in the theory and applications of information fusion. The 23rd International Conference on Information Fusion (FUSION 2020) will be held on African soil for the first time. The conference will take place at the scenic Sun City Convention Centre, nestled against the foothills of the Pilanesberg National Park in South Africa. The park hosts the big 5 (elephant, rhino, lion, leopard, buffalo) and is situated in the remnants of an extinct volcanic crater. This conference will offer a unique opportunity to the Fusion community to expand its horizons, seek out new collaborative efforts, and apply information fusion to problems faced by the African continent and the global community alike.

theory, rough sets, logic fusion, preference aggregation, decision theory, random sets, finite point processes and others.

Algorithms: cognitive methods, signal processing and localisation, recognition, classification, identification, nonlinear filtering, data association, tracking, prediction, situation/impact assessment, alignment and registration, pattern/behavioural analysis, image fusion, fusion architectures, resource management, machine learning and artificial intelligence, topic modelling, natural language processing, contextual adaptation, anomaly/change detection.

Applications: soft-hard fusion, autonomous systems, defence/security, robotics, intelligent transportation, mining/manufacturing, wireless sensor networks, economics, finance, fintech, environmental monitoring, medical care/e-health, bioinformatics, radio astronomy, critical infrastructure protection, condition monitoring, precision agriculture, video streaming and other emerging applications.

Methods/tools: sequential inference, data mining, graph analysis, ontologies/semantics, modelling/realisation/evaluation, target/sensor modelling, benchmarks/testbeds, computational methods, cloud/edge computing/fusion, fusion performance.

Visit the Conference Website:

<http://fusion2020.org/>

Submission Guidelines

All papers must be original and not simultaneously submitted to another journal or conference. The following submission categories are welcome:

- **Full papers** (between 5 and 8 pages) in one or more of the following topics, typically involving some aspect of information, data or sensor fusion.
- **Tutorials** (See dedicated Call for Tutorials on the www.fusion2020.org website)
- **Special sessions, panels** (See dedicated Call for Special Sessions and panels on the www.fusion2020.org website)

Topics of Interest

Theory and representation: probability theory, Bayesian inference, argumentation, Dempster-Shafer theory, possibility and fuzzy set

Important Deadlines

- **Proposals for special sessions, tutorials, panels:** 25 February 2020
- **Full paper submission:** 15 March 2020
- **Notification of acceptance (tutorials, special sessions and panels):** 1 April 2020
- **Notification of acceptance (full papers):** 1 May 2020
- **Camera ready paper submission:** 1 June 2020

Publication

FUSION2020 proceedings will be published by the IEEE in IEEEXplore.

Contact

- **Paper submissions:** submissions@fusion2020.org
- **Tutorial submissions:** tutorials@fusion2020.org
- **Special sessions:** specialsessions@fusion2020.org
- **Panel submissions:** panels@fusion2020.org