



## Call for Papers

### Journal of Advances in Information Fusion (JAIF)

#### *Special Issue on Multiple Hypothesis Tracking*

*Multiple-hypothesis tracking* (MHT) is a leading paradigm for addressing difficult data association problems in *multi-target tracking* (MTT). It has received sustained interest starting with the seminal work of Donald Reid, first published at the IEEE Conference on Decision and Control in 1978 and, more prominently, in the IEEE *Transactions on Automatic Control* (T-AC) in December 1979. In the past 40 years, significant progress has been achieved including the track-oriented formulation, relaxation solution approaches, distributed MHT, generalizations for merged and repeated measurement models, and graph-based extensions. Additionally, recent years have seen great interest in establishing connections between MHT and alternative approaches to the MTT problem.

In this Special Issue of JAIF, we seek submissions on recent advances in MHT and related methodologies for MTT. The issue is tentatively scheduled for December 2019, forty years after the celebrated Reid T-AC paper. This issue follows the successful Special Session (Forty Years of Multiple Hypothesis Tracking) at the 21<sup>st</sup> *International Conference on Information Fusion* (FUSION 2018), which received great interest and featured ten papers from established researchers in the target tracking community. We encourage expanded versions of these papers, as well as new contributions from others.

#### Guest Editors

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#### Timeline

1 Feb 2019 – submission deadline  
1 Apr 2019 – 1<sup>st</sup> decision sent to authors  
1 Jun 2019 – 1<sup>st</sup> revision deadline  
1 Aug 2019 – 2<sup>nd</sup> decision sent to authors  
1 Oct 2019 – 2<sup>nd</sup> revision deadline  
1 Nov 2019 – final decision sent to authors  
1 Dec 2019 – final manuscript deadline  
**Dec 2019 – publication JAIF Vol. 14(2)**

#### Submissions

Visit <http://isif.org/journals/all> for general information on JAIF and <https://jaif.msubmit.net> for manuscript submission.