International Workshop on Information Fusion

The International Workshop on Information Fusion is a forum for interchange of the latest research in information fusion and discussion of its impacts on our society. It is organized as a dissemination activity within ACOMIN project in order to spread out the project results and the IICT excellence at regional, national and international levels by bringing together researchers from academia and industry to report on the latest scientific and technical advances in the field. Authors are invited to submit papers describing advances and applications in information fusion. The Workshop will be held on 25 September, 2015, in the complex of Bulgarian Academy of Sciences, Institute of Information and Communication Technologies, "Acad. G. Bonchev" str., bl.25A, Sofia, Bulgaria

Topics of interest

1. Theory
Probability theory; Bayesian inference; Dezert-Smarandache Theory; Dempster-Shafer theory; fuzzy sets; fuzzy logic; belief functions; logic based fusion; preference aggregation; neural networks; ontology; graphical representation & graph inference.
2. Algorithms
Sensors'and Data Registration; detection; combined detection and tracking; classification; automatic target recognition; nonlinear filtering; particle filters; Monte Carlo methods; target tracking and localization; feature aided tracking; data association; video tracking; radar tracking; situation assessment; pattern analysis; behavior modelling; process and sensor/resource management; active and passive data fusion; high level fusion; image fusion; database fusion; distributed fusion; data mining; machine learning; vote; data analytics.
3. Modelling, simulation and evaluation
Objects modelling; sensor modelling; simulation tools; benchmarks; testbeds; fusion/tracking performance modelling; fusion/tracking performance evaluation; performance metrics.
4. Applications
Sensor networks; defence and intelligence; aerospace; homeland security; public security; computer security; imaging; robotics; navigation and guidance; intelligent transportation; logistics; manufacturing; economics and finance; environmental monitoring; medical care; big data; business, etc.

Submissions

Prospective authors are invited to contribute by submitting a technical paper (4-8 pages). Papers presented at the workshop will be included in Cybernetics and Information Technologies Journal abstracted/indexed in: EI Compendex, INSPEC (The Database for Physics, Electronics and Computing), AMS Digital Mathematics Registry (American Mathematical Society), Elsevier SCOPUS and other 14 data bases. The journal SJR for 2013 is 0,212 and SNIP = 0,552.

Preparation Instructions

All papers should correspond to the journal template, given in http://www.cit.iit.bas.bg/cit_inst_authors.html

Review Process

The workshop welcomes the submission of papers covering the listed topics. All submitted papers will undergo a thorough review process; each paper will be refereed by at least two experts in the field based on relevance, originality, significance, quality, and clarity.

Important Dates
1st of July, 2015	Full paper submission
1st of August, 2015	Notification of Acceptance
1st of September, 2015	Final Paper (Camera-Ready) submission
25th of September, 2015	Workshop

Organizing Committee
General Chair**:**   Assoc. Prof. Kiril Alexiev, IICT
Program Chairs: Assoc. Prof. Albena Tchamova