



The 15th International FLINS Conference on Machine learning,
Multi agent and Cyber physical systems

August 26-28, 2022, Tianjin, China



Special Session on Decision making under uncertainty: emerging topics and applications

<https://flins2022.scievent.com/>

FLINS2022 is the fifteenth in a series of conferences on computational intelligence systems with focus on Machine learning, Multi agent and Cyber physical systems. The conference will be held in Tianjin, China.

FLINS 2022 proceedings will be again published as a book by the World Scientific and it will be again included in the ISI proceedings as previous ones, as well as be included in EI Compendex for indexing. Moreover, special issues of SCI indexed journals will be devoted to a strictly refereed selection of extended papers presented at FLINS 2022.

Scope and Motivation

Decision making is a common task related to intelligent and complex activities that take into account various types of risk and uncertainty in which human beings face situations in which a set of alternatives should be sorted, ranked or selected the best one. Nowadays, the structure of decision making models has grown inevitably and is significantly complex driving to decisions made by groups of experts (from few to a large scale). Moreover, unavailability data is compensated by using a number of assumptions as a means of dealing with uncertainty. To deal with uncertainty in decision making problems, different fuzzy methodologies and theories have been proposed in the literature, such as fuzzy sets, fuzzy linguistic approach, intuitionistic fuzzy sets, q-rung orthopair fuzzy sets, hesitant fuzzy sets, hesitant fuzzy linguistic term sets, type 2 fuzzy sets, etc., as well as a wide range of tools, operations and decision models have been proposed to cope with decision problems dealing with uncertainty. Nevertheless, the advances and the appearance of new challenges always imply novel mathematical foundations and new decision models to be applied in different decision fields dealing with uncertainty.

This invited session aims at providing an opportunity for researchers who work in decision making under uncertainty to discuss and to share their new ideas, original research results and practical experiences. Potential topics (but not limited) of this special session are as follows:

- Choice, Ranking and Sorting processes in multi-criteria decision making under uncertainty.
- Consensus reaching processes in group decision making under uncertainty
- Multi-criteria and group decision making, including large-scale decision problems dealing with uncertainty.
- Intelligent Decision Support
- Applications such as, sustainability, engineering evaluation, sensory evaluation, risk and quality assessment, emergency events, recommendations, resource management and transfer, medical diagnosis and so on.

Important Dates

Full paper submission	February 28, 2022
Notification of acceptance	March 31, 2022
Camera-ready paper submission	April 15, 2022
Author registration	April 25, 2022
Conference Date	August 26-28, 2022

Paper Submission

<https://easychair.org/conferences/?conf=flins20220>

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