



International Virtual Workshop on Business Analytics *Eureka* 2021

which will be held on **May 5 to 7, 2021**, by UACJ

Special Session on Fuzzy Sets and its extensions applied to Decision making under uncertainty

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. Nowadays, the structure of decision making models has grown inevitably and is significantly complex. Additionally unavailability data is compensated by using a number of assumptions as a means of dealing with uncertainty. Often, in such a complex decision situations under uncertain environments dealing with imprecise information, therefore different fuzzy based approaches have been developed and successfully applied to model and manage such uncertainties in decision making problems.

Both Decision Making and fuzzy modelled information have attracted much attention in which, novel mathematical foundations and new decision models raised to be applied in different decision fields such as large-scale group decision making, consensus reaching processes, evaluation processes, etc.

This invited session aims at providing an opportunity for researchers working in both research areas to discuss and to share their new ideas, original research results and practical experiences. More specifically, we expect you to have any contribution with the focus on the use of computing with words in decision making. Potential topics (but not limited) of this special session are as follows:

- Fuzzy modelling to represent preferences
- Fuzzy Multi-criteria decision making
- Fuzzy large-scale group decision making
- Soft consensus reaching models
- Fuzzy Decision Support Systems
- Applications such as, engineering evaluation, sensory evaluation, risk assessment, evaluation and recommendations and so on.

Submission procedure

Authors should submit abstracts with an extension of up to 500 words, and these should be submitted via the EasyChair submission system to the reviewing procedure. Authors must enter to the following EasyChair link according to deadlines:

<https://easychair.org/conferences/?conf=eureka2020>

The extended abstracts should be prepared following the instructions from IEEE (2-column template for transactions), more information available in the attached Microsoft Word template (available at [IEEE](#)) and resubmitted by the EasyChair before the Workshop.

Important dates

Submission of the extended abstracts: **March 31, 2021**

Notification of acceptance and abstract pre-classification to contribute to the special issues: **April 15, 2021**

Submission of the extended abstracts: **May 1, 2021**

Workshop: **May 5-7, 2021**

Contacts:

Luis Martínez (martin@ujaen.es)

Department of Computer Science

University of Jaén, Jaén, Spain

Rosa M^a Rodríguez (rmrodrig@ujaen.es)

Department of Computer Science

University of Jaén, Jaén, Spain

Álvaro Labella (labella@ujaen.es)

Department of Computer Science

University of Jaén, Jaén, Spain