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Call for Papers

Special Session SS26: Inter-Relation between Interval and Fuzzy Techniques

The relation between fuzzy and interval techniques is well known due to the fact that a fuzzy number can be represented as a nested family of intervals (alpha-cuts) and the level-by-level interval techniques are often used to process fuzzy data. At present, researchers in fuzzy data processing mainly use interval techniques originally designed for non-fuzzy applications, techniques which are often taken from textbooks and are, therefore, already outperformed by more recent and more efficient methods.

The main objectives of the session are:

1. To make the fuzzy community at-large better acquainted with the latest, most efficient interval techniques; in particular, techniques specifically developed for solving fuzzy-related problems.
2. To combine fuzzy and interval techniques, so that we will be able to use the combined techniques in practical situations where both types of uncertainty are present; for example, when some quantities are known with interval uncertainty (e.g., coming from measurements), while other quantities are known with fuzzy uncertainty (coming from expert estimates).

The authors with an interest on the related fields are invited to submit the papers.

Keywords: interval computations, interval uncertainty, interval-valued fuzzy sets

Dates:

Deadline for Paper Submission: January 15, 2011.

Notification of Acceptance: March 31, 2011.

Final Paper Submission: April 30, 2011.

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