



Special Session on
**Representing and Managing Vagueness:
different scenarios, different tools**

D. Ciucci, J. Medina, L. Sosnowski



The notion of vagueness has been extensively analysed in the last decades by philosophers, logicians and computer scientists. Here we are interested in the vagueness originated by different characteristics and flaws in information: incompleteness, imprecision, graduality, granularity, contradiction between agents, etc. For each of these aspects one (or more) specific tool has been introduced in literature: fuzzy sets, rough sets, possibility theory, Dempster-Shafer theory, interval analysis, compound objects comparators, etc. Further, when more than one form of vagueness are present at the same time, it seems natural to fuse such tools, as in the fuzzy rough set case. The special session is devoted to collect all contributions that deal with scenarios leading to a form of vagueness and tools to represent and manage it. In particular, all critical discussions, comparisons among two or more forms of vagueness and/or comparisons and fusion of two or more tools are welcome.

The not exhaustive list of topics includes:

- rough sets (classical, probabilistic, game-theoretic, etc...)
- fuzzy rough sets
- interval-valued fuzzy sets
- possibility theory
- supervaluations
- paraconsistent logics
- near sets
- interval analysis
- grey sets
- non-classical logics (many valued, paraconsistent, epistemic,...)
- similarity Based Reasoning
- networks of comparators

Important Dates

- March 31th, 2017: Full Papers Submission
- April 23th, 2017: Notification of Acceptance
- May 13th, 2017: Submission of Final Papers

Organizers

Davide Ciucci, University of Milano-Bicocca, Italy, ciucci@disco.unimib.it

Jesús Medina, University of Cádiz, Spain, jesus.medina@uca.es

Lukasz Sosnowski, Systems Research Institute. Polish Academy of Sciences, Poland, sosnowsl@ibspan.waw.pl

You are kindly invited to express your interest in the special session by contacting one of the organizers, specifying a tentative title and authors.

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