

# CFP: Special Issue on random sets and imprecise probabilities

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Special Issue on

RANDOM SETS AND IMPRECISE PROBABILITIES

Random sets, or measurable multi-valued mappings, constitute a powerful generalisation of random variables with applications on areas as diverse as economics, data mining or environmental sciences. On the other hand, imprecise probability models have arisen in the last years as a powerful alternative to classical probability for situations when imprecision or vagueness prevents the use of a precise and unique probability distribution with certain guarantees.

This special issue is meant to cover the several connections existing between random sets and imprecise probabilities. Foundational issues on this topic include, but are not limited to, upper and lower probabilities (capacities) induced by random sets, sets of measurable selections, upper and lower integrals of random sets and coarse data analysis. Applications of random sets and imprecise probabilities in Computer Science, Economics, Social Sciences or Information Technology, are also welcome.

Authors should submit their papers electronically to both special issue editors. The papers must contain original unpublished work that is not being submitted for publication elsewhere. Due to limitations of space, only papers with less than 20 pages will be considered. Manuscripts submitted to this special issue should follow the format guidelines that can be found at <http://www.elsevier.com/locate/ijar>, and will be refereed according to the standard procedures for International Journal of Approximate Reasoning.

The DEADLINE for submissions is May 15, 2006.

The issue is expected to be ready by early 2007. Electronic submission

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