

**Bosch, Alfonso; Guil, Francisco; Martinez, Carmen; Marin, Roque**

**Series-parallel and tree-decomposition approaches for fuzzy constraint networks.** (English)

Zbl 1036.68579

Garijo, Francisco J. (ed.) et al., Advances in artificial intelligence – IBERAMIA 2002. 8th Ibero-American conference on AI, Seville, Spain, November 12–15, 2002. Proceedings. Berlin: Springer (ISBN 3-540-00131-X/pbk). Lect. Notes Comput. Sci. 2527, 275-284 (2002).

Summary: In this work, we present a disjunctive fuzzy constraint networks model for continuous domains, which generalizes the disjunctive fuzzy temporal constraint networks model for temporal reasoning, and we propose the use of the series-parallel and tree-decomposition approaches for simplifying its processing. After a separate empirical evaluation process of both techniques, a combined evaluation process over the same problem repository has been carried out, finding that series-parallel problems practically subsume tree-decomposable problems.

For the entire collection see [[Zbl 1007.00051](#)].

**MSC:**

**68T37** Reasoning under uncertainty in the context of artificial intelligence

**Full Text:** [Link](#)