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**Improving reliability in classification of microcalcifications in digital mammograms using case-based reasoning.** (English) [Zbl 1028.68638](#)

Escrig, M. Teresa (ed.) et al., Topics in artificial intelligence. 5th Catalanian conference on AI, CCIA 2002, Castellón, Spain, October 24-25, 2002. Proceedings. Berlin: Springer. Lect. Notes Comput. Sci. 2504, 101-112 (2002).

Summary: Case-based classifiers try to solve given cases using the solutions of the most similar cases. In several medical domains, sometimes they do not perform well because of their reliability. In this paper we build a Case-Based Classifier in order to diagnose mammographic images. We explain different methods and behaviours that have been added to a Case-Based Classifier in order to improve its reliability and make it suitable for this complex domain where an error may be fatal.

For the entire collection see [\[Zbl 1001.00045\]](#).

**MSC:**

[68T37](#) Reasoning under uncertainty in the context of artificial intelligence

[92C55](#) Biomedical imaging and signal processing

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