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**Abstract**

Numerous quality rules have been proposed in the literature. These rules define the "best practices" for designing and to implementing flaw-free object-oriented program. Unfortunately, due to the particular nature of these rules, there are no existent tools that can really take advantage of them to improve the quality in object-oriented development. In this paper, we propose an approach for detecting violations of quality rules in object-oriented programs. We suggest modeling these rules using fuzzy rule-based systems and apply them on source code.

**Keywords:** Quality assessment, static analysis, software metrics