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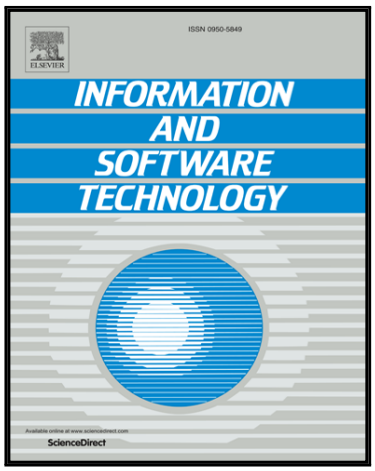

Performance mutation testing: hypothesis and open questions

Ana B. Sánchez, Pedro Delgado-Pérez, Sergio Segura, Inmaculada Medina-Bulo

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Highlights

- Performance bugs in software are frequent and can lead to serious problems.
- There is a lack of mechanisms to evaluate the effectiveness of performance tests.
- Mutation testing can help evaluate and enhance the quality of performance tests.
- Performance mutation operators should not alter the semantics of the program.
- Functionally-equivalent mutants can be useful to search for performance defects.

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