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Efficient Validation of Self-adaptive Applications by Counterexample Probability Maximization

Wenhua Yang, Chang Xu, Minxue Pan, Chun Cao, Xiaoxing Ma, Jian Lu

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Highlights

- We improve the efficiency of validating self-adaptive applications.
- We propose to find high-probability counterexamples for validation.
- We reduce the problem to a constrained optimization problem.
- We use the genetic algorithm to effectively search for the optimal solution.
- We evaluated our approach's effectiveness on real-world applications.

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