

Genetic algorithm for optimization of software process

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The study conducted in this paper started from a real-life problem encountered by a software test manager. Testing a software consist in passing a set of tests, many of them are interdependent, they have different weights and the software testing team have a limited time resource. It is clear that it takes different times to pass different tests. The goal of the team is to conduct tests in the allowed time interval following a path such that the overall weight of passed tests is maximal. In the present paper we present a mathematical model of the problem and propose a solution to it based on developed evolutionary algorithm.

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