عنوان مقاله:

Evolutionary Software Product Lines: A Knapsack Problem Perspective

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خلاصه مقاله:

In this article, we explore a method to create state-of-the-art customized products using agenetic algorithm. We focus on solving a classic optimization problem called the Knapsackproblem, aiming to find the perfect combination of components for our desired product. Byemploying genetic algorithms, which mimic natural selection and genetic variation, wenavigate through different possibilities to discover the ideal product configuration. Ultimately,our goal is to achieve the most efficient and effective product customization process, drivinginnovation and progress in manufacturing and related fields.

کلمات کلیدی:

SPL،Knapsack Problem،Genetic Algorithm،Optimization،Customized Products