The use of metaheuristics to software project scheduling problem

Crawford B.

Soto R.

Johnson F.

Misra S.

Paredes F.

This paper provides an overview of Software Project Scheduling problem as a combinatorial optimization problem. Since its inception by Alba, there have been multiple models to solve this problem. Metaheuristics provide high-level strategies capable of solving these problems efficiently. A set of metaheuristics used to solve this problem is presented, showing the resolution structure and its application. Among these we can find Simulated Annealing, Variable Neighborhood Search, Genetic Algorithms, and Ant Colony Optimization.

Metaheuristcs

Optimization

Software Project Scheduling

Combinatorial optimization

Genetic algorithms

Heuristic algorithms

Optimization

Scheduling

Simulated annealing

Combinatorial optimization problems

ITS applications

Meta heuristics

Metaheuristcs

Resolution structure

Software Project Scheduling

Variable neighborhood search

Problem solving