Implementing a multi-purpose optimization code: Heuristika

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Abstract

Heuristika is a Java-based system aimed to solve highly complex, non-linear problems of any sort, sustained in evolutionary algorithms assumptions. It introduces different aspects and functionalities caught in the specialized literature. It is intended to integrate heuristic methods to solve complex numerical and ODE problems, optimization, classification and control processes and all problems which involve impractical exhausting solutions. In the course of its development, the author made use of analogies and metaphors found in ordinary life concepts.

Keywords: Heuristic Methods, Applied Mathematics, Genetic Algorithms

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