
Some Issues on Adaptive Genetic Algorithm

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ABSTRACT

One of the important branches of genetic algorithm (GA)—adaptive GA has been discussed. Based on the introduction of adaptation with different level(s) and several kinds of formalized descriptions of adaptive GA, three forms of adaptation have been analyzed. Several mathematical expressions of adaptive operators are discussed and the corresponding schema theorems of adaptive GA with linear and nonlinear expressions are studied.

Keywords: Adaptation, Genetic Algorithms, Adaptive Genetic Operators, Population Scale, Schema Theorem.