

## **A Survey of Hybrid Evolutionary Algorithms**

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**Abstract.** Hybridization is often applied to problems where traditional evolutionary algorithms neither give proper solutions nor are effective enough in terms of calculation speed. The basic hybridization idea is to combine an evolutionary algorithm with a problem-specific algorithm thus finding the optimal solution in a limited neighborhood. However, hybrid methods are numerous and varied and no approach has been made yet to classify these techniques. This survey looks at such hybridization methods to a present complete and unified study.

**Key words:** hybrid evolutionary algorithms, local search, optimization