عنوان مقاله:

A Cooperative Artificial Bee Colony Optimizer

محل انتشار:

هفتمین کنفرانس بین المللی مهندسی صنایع (سال: 1389)

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خلاصه مقاله:

The Artificial Bee Colony algorithm is an optimization algorithm than can be applied on the wide range of engineering problems. In this work, the standard ABC algorithm is extended by incorporating a cooperation approach and an algorithm called Split ABC (S-ABC) is developed. S-ABC aims at improving the performance of the standard ABC algorithm using benefits of cooperation as a social behaviour. S-ABC works by spliting the solution vector into the components and employing multiple population to optimize these components cooperatively. The proposed algorithm was tested on a set of well known test functions. The results showed that the proposed algorithm is efficient, robust, produce good results, and outperforms other algorithms investigated in this paper

کلمات کلیدی:

Artificial Bee Colony, Numerical Functions, Cooperative Artificial Bee Colony

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