Swarm Intelligence and Bio-Inspired Computation: 11. A Review of the Development and Applications of the Cuckoo Search Algorithm

Sean Walton, Oubay Hassan, Kenneth Morgan, M. Rowan Brown

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The cuckoo search is a relatively new gradient free optimization algorithm, which has been growing in popularity. The algorithm aims to replicate the particularly aggressive breeding behavior of cuckoos and it makes use of the Lévy flight, which is an efficient search pattern. In this chapter, the original development of the cuckoo search is discussed and a number of modifications that have been made to the basic procedure are compared. A number of applications of the cuckoo search are described and some possible future developments of the cuckoo search algorithm are summarized.

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