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Title: A Study on the Global Convergence Time Complexity of Estimation of Distribution Algorithms
Authors: R. Rastegar, M. R. Meybodi
Categories: cs.AI Artificial Intelligence (cs.NE Neural and Evolutionary Computation)

Abstract: The Estimation of Distribution Algorithm is a new class of population based search methods in that a probabilistic model of individuals is estimated based on the high quality individuals and used to generate the new individuals. In this paper we compute 1) some upper bounds on the number of iterations required for global convergence of EDA 2) the exact number of iterations needed for EDA to converge to global optima.

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