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particle swarm optimization is a meta heuristic that belongs to the category of swarm intelligence algorithms it was first proposed by james kennedy and russell eberhart in 1995 and is applied to various search and optimization problems let s start by defining the three keywords in the definition what is an optimization problem

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particle swarm optimization is a population based stochastic optimization technique developed by dr eberhart and dr kennedy in 1995 2 inspired by the social behavior of birds or schools of fish bedtime story a group of birds is looking for food in a vast valley there is food in only one place in this valley

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the particle swarm is a population based stochastic algorithm for optimization which is based on social psychological principles unlike evolutionary algorithms the particle swarm does not use selection typically all population members survive from the beginning of a trial until the end

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the standard particle swarm optimization uses both the current global best and the individual best at iteration t one of the reasons of using the individual best is probably to increase the diversity in the quality solutions however this diversity can be simulated using some randomness

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