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Lagrange, and Cauchy. Since the effort required or the benefit desired in any practical situation can be expressed as a function of certain decision variables, optimization can be defined as the process of finding the conditions that give the maximum or minimum value of a function.

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In engineering optimization, the estimation of a solution is carried out in putting values of decision variables to objective function or fitness function, evaluating the function value with respect to several aspects such as cost, efficiency, and/or error. Fig. 4 shows the structure of

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the harmony memory (HM) that is the core part of the HS.

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