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Summary. The existence of optimization methods can be traced to the days of Newton, 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 the harmony memory (HM) that is the core part of the HS.