**PARTICLE SWARM OPTIMIZATION METHOD FOR CONSTRAINED OPTIMIZATION PROBLEM**

**Introduction:**

* Particle Swarm Optimization (PSO) is a computational method that optimizes a problem by iteratively trying to improve a candidate solution with regard to a given measure of quality.
* Constrained optimization problems are problems for which a function is to be minimized or maximized subject to constraints. Here is called the objective function and is a Boolean-valued formula.
* Constrained optimization methods use mathematical techniques to help efficiently and systematically identify the best (optimal) of all possible solutions to a problem while considering the relevant constraints, such as budget limits or staffing capacity.
* Constrained Optimization Problem (COP) are encountered in numerous applications. Structural optimization, engineering design, VLSI design, economics, allocation and location problems