

CEOP- \mathcal{N}

RSZD

SZ layout

PSO

Evaluate fitness of particles

LDIW

Update velocity list

Limit max velocity
based on SZ

Update position list

Limit waypoint
position within SZ

IACS to Solve OP

Re-
initialization

Drop
Operator

Add
Operator

Feasible ?

2-opt

Solution construction

Inheritance

Final
path

Linear decreasing
inertia weight to limit
the motion of waypoints

Any infeasible waypoint
to fixed to the
boundary of SZ

Inherit information of
global-best ant from
previous iteration

