

CEOP

Generate a SZ layout
with minimum SZs

RSZD

SZ layout

ACS to Solve SOP

Solution construction

Feasible ?

Yes

No

Drop
Operator

Add
Operator

Re-
initialization

State transition
rule

Attempt to drop some
waypoints in the path
to make the path
feasible

Attempt to insert
more candidates

Local updating rule
Global updating rule
Re-initialize ants

Iteratively
continuous
optimization for
waypoint positions

Arc Search

Add Operator

Final
path

