Dynamic

Yes

No

Abandon a fraction pa of worst nests and build new nests based on, Eq. (5)

Save the current best solution, iter=iter+1

iter<= max\_iter

Obtain the best solution

Calculate the fitness of new nests using Levy flight using Eqs. (3) and (4)



Replace,and update 

**Initialize:**Random population of host nests (NP),max\_iter (maximum no. of iterations), iter=1, Create a noise pool using individual\_motors\_recording dataset.

Calculate fitnessfor all host nests and find 

Perform sound source localization using GCC-PHAT

Using obtain the noise model from the noise pool and subtract it from the noisy input signal using temporal subtraction

Obtain azimuth and elevation angle

Static or dynamic task?

Divide into 15 time stamps and average over 500 ms windows centered on time stamps











Yes

Static

No