MobileSink Particle Initialization

Input:

Env , LB, HB, ParticleDim, covThreshold, sensorsPos

Output:

Particel

Start:

1. Particle.pos=unifrnd(LB,HB,1,ParticleDim)
2. Cov=computeCov(particle.pos,env)
3. Set smallBias, waitingTimeOut
4. C=0
5. while cov<covThreshold

for i=1:ParticleDim

senIndex= select randomSensor Index

particle.pos(i)=unifrnd(sensorsPos(senIndex)-smallBias, sensorsPos(senIndex)+smallBias)

end

c=c+1

if c> waitingTimeOut

ParticleDim=ParticleDim+1, particleDim=checkBoundsDim

Cov=computeCov(particle,env)

End

End while

end