

In class FastSLAM:

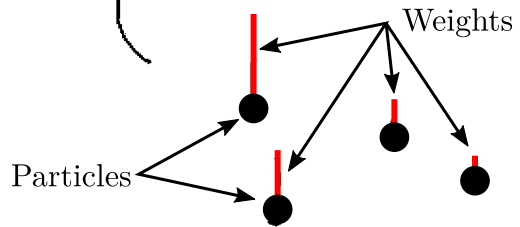
correct (cylinders)

Function in the Fast_SLAM class

weights = update_and_compute_weights(cylinders)

resample(weights)

Function programmed in the Particle Filter lecture



update_and_compute_weights(cylinders)

weights = []

FastSLAM

for p in particles:

weight = 1.0

for m in measurement_list:

Function programmed in the Particle class

w = p.update_particle(m)

weight = weight * w

weights.append(weight)

return weights

Present all the measurements to all the particles

Measurement

$$\vec{z}_t = \begin{pmatrix} D_t \\ \phi_t \end{pmatrix}$$

