

Symbol	Meaning
$\hat{H}$	The random vector representing locations of all objects
$h_i$	The random variable representing the location of $o_i$
$\mathbb{Z}$	Raw data reported by RFID readers
$z_{ij}$	The raw data (0 or 1) reported by the reader in zone $j$ for object $o_i$
$post(\hat{H} \mathbb{Z})$	The posterior probability of the location vector $\hat{H}$ given the raw data $\mathbb{Z}$
$p(z_{ij} h_i)$	The likelihood that the zone $j$ reader reports the value of $z_{ij}$ for object $o_i$ given that object $o_i$ is in the zone $h_i$
$p(h_j)$	The prior probability that object $o_j$ is in the zone $h_j$