P(2/4)=P(4/2)-P(0) P(21/21:4, U1:t) = P(2/24, U1:t721:t1) P(2/U1:t,21:t-1) = Likelihood of Observation. Prior Belief

Normalization Factor N Consider 1 = 1(2/1 U1:t, 71:t-1) P(9t | 21:6, 41:6) = n P(2t | 2t, 41:6-21:61) - P(2t | 41:6, 21:61) Sensor Model

Sensor Model

The Likelihood of Observation given State & Ornhol is Sensor Model

Tonsidering the Sensor Model is a Markor Process

Observation of the Sensor Model is a Markor Process

P(ZEIXE, U1:E Zi:E-1) = P(ZEIXE) only depends on current state. P(2+121+141=+) = M P(2+12+). P(2+12+121=+) Applying Magnalization here P(at | u1: t, 21: t1) =) P(at | at 1, 21: t1, 4t). P(at 1 | Zi: t) = SP (2+12+1, 4+) . Betz(P(2+1)z1:1-1, Unit)da, 2 Steps Bel (24) = SP(2+12+1, 4) dat Bel (2+1) dat Correction Bel (xt) = NP(2t/21) Bel(xt)
Observation model