CSMC5707 Equations v250427d (KH Wong)

1. Relation of MEL scale (*m*) and signal frequency (*f) is* .
2. S=[],
3. ,

Information gain (IG)=Entropy(parent)-weight\*entropy(child)

1. , where
2. ,
3. Neural networks: Weight ( update : ,

Case1 (hidden to output layers),

Case 2 (hidden to hidden), , input = .

SoftMax : Convert *z* to SoftMax output *y*: .

xn, -xn, xn =input, T=target

1. Reinforcement learning (Q-Learning algorithm)

* = reward, α =learning rate, =discount rate,