



www.navneel.com PAGE NO. (首100) DATE: values (ai) = T, F S=[3+,3-] ST = [2+, 1-] SF = [1+, 2-] Gain  $(S,a_1) = Entropy(S) - \frac{1}{2} \frac{|S_V|}{|S_1|} \frac{|S_V|}$ = Entropy(s) - 3 Entropy(st) - 3 Entropy(st)  $\frac{1-3}{6} - \frac{2}{3} + \frac{1}{3} + \frac{$  $-\frac{3}{6} \left[ -\frac{1}{3} \log \frac{1}{3} - \frac{2}{3} \log \frac{2}{3} \right]$  $-\frac{3}{6}\left|\frac{-2}{3}\times -0.585 - \frac{1}{3}\times -1.585\right|$  $\frac{3}{6}$   $\frac{-1}{3}$   $\times -1.585 - \frac{2}{3}$   $\times -0.585$ 1-3 x 0.918-3 x 0.918 = 0.082

