

Proof Denote S= [s,,..., s] as a vector of output labels of each classifier. The Bayes optimal decision function is given by $\rho(s_{i,j}s_{e_3...,j}s_{\tau}|\omega_i)$ classes classes j = 1, ..., cm, class = log & P(w;) \(\frac{7}{11}\rho(z; \log \))\\
= \log \&\{\log \partial \text{P(w;)} \} = $\log \{P(\omega_i)\}$ + $\log \{\frac{1}{||p(s_i|\omega_i)||} ||p(s_i|\omega_i)\}$ $i:s_i=\omega_i$ $i:s_i\neq\omega_i$ 10 = T = log {P(w;)} + log { 11 - Pi 17 (1-P;)} = loy { p(w;)} } + \(\sum_{i:\(\sigma_i = \widetilde{w}_i \)} \\ \ \(\sigma_i \sigma_i = \widetilde{w}_i \) \\ \(\sigma_i = \widetilde{w}_i \) \\(\sigma_i = \widetilde{w}_i \) \\ \(\sigma_i = \widetilde{w}_i \) \\\ \(\sigma_i = \widetilde{