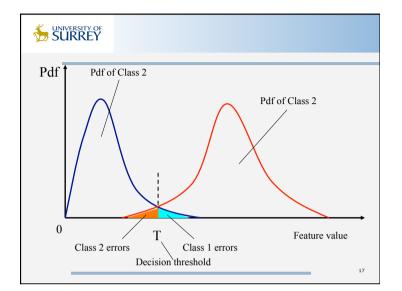
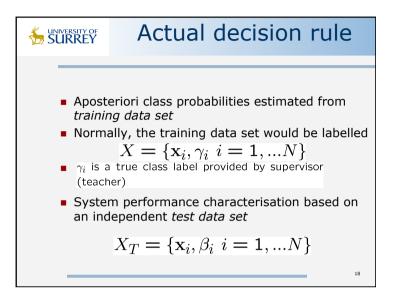
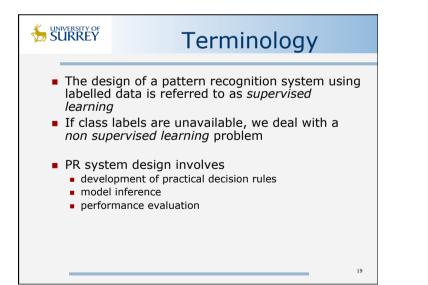


Summer S







SURREY Parametric decision rules

Gaussian classifiers

 $p(\mathbf{x}|\omega_i) = [(2\pi)^n |\Sigma_i|]^{-\frac{1}{2}} \exp\{-\frac{1}{2} (\mathbf{x} - \mu_i)^T \Sigma_i^{-1} (\mathbf{x} - \mu_i)\}$

- μ_i is the mean vector of class i
- Σ_i is the covariance matrix of class ω_i

