

Lecture 7.3: (10:20-10:35)

Classification using Global and Local Mahalanobis distances

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A novel semi-parametric classifier based on Mahalanobis distance from the elliptical competing classes, is proposed. We use a generalized additive model that uses these distances as features to estimate the posterior probabilities of different classes. To deal with non elliptical situations localized version of Mahalanobis distance is introduced.