

论文

LOCAL INFLUENCE IN DISCRIMINANT ANALYSIS

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摘要 In this paper, we use the generalized influence function and generalized Cook statistic to study the local influence of small perturbation in discriminant analysis. We give the perturbation theory about Mahalanobis Δ^2 , discriminant means and discriminant function coefficients, and derive the local influence measures for various aspects in discriminant analysis. Finally, an example is used for illustration.

关键词 [Discriminant analysis](#), [generalized cook](#)

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Abstract In this paper, we use the generalized influence function and generalized Cook statistic to study the local influence of small perturbation in discriminant analysis. We give the perturbation theory about Mahalanobis Δ^2 , discriminant means and discriminant function coefficients, and derive the local influence measures for various aspects in discriminant analysis. Finally, an example is used for illustration.

Key words [Discriminant analysis](#) [generalized cook statistic](#) [perturbation scheme](#) [local influence](#)

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