



Principal components analysis

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Dunteman, George H. (George Henry),) (1935-)

<https://id.oclc.org/worldcat/entity/E39PCjyTQj3F9C6F8qRvTFcMfq>

Sage Publications,
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Monografía

Principal components analysis offers researchers a 'feel' for analysing particular sets of multidimensional data. It is particularly useful in coping with multicollinearity in regression analysis, a persistent problem in behavioral and social science data sets

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Contenido: 1. Introduction -- Example -- 2. Basic concepts of principal components analysis -- 3. geometrical properties of principal components -- Example -- 4. Decomposition properties of principal components -- Decomposition of the variables -- Spectral decomposition of the correlation or covariance matrix -- 5. Principal components of patterned correlation matrices -- Example -- 6. Rotation of principal components -- Example -- 7. Using principal components to select a subset of variables -- Example -- 8. Principal components versus factor analysis -- Example -- Factor rotation -- 9. Uses of principal components in regression analysis -- Regression on principal components -- Principal components regression -- Example -- 10. Using principal components to detect outlying and influential observations -- 11. Use of principal components in cluster analysis -- 12. Use of principal components analysis in conjunction with other multivariate analysis procedures -- Use of principal components in discriminant analysis -- Example -- Use of principal components in canonical correlation analysis -- 13. Other techniques related to principal components -- Principal coordinate analysis -- Correspondence analysis

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