

History of Nonlinear Principal Component Analysis

Jan de Leeuw

UCLA

<http://www.cuddyvalley.org/>

Keywords: Multiple Correspondence Analysis, Nonlinear Principal Component Analysis

Multiple Correspondence Analysis (MCA) is discussed as a form of Nonlinear Principal Component Analysis (NLPCA). It is compared with other forms of NLPCA that have been proposed over the years: Shepard-Kruskal- Breiman-Friedman-Gifi PCA with optimal scaling, aspect analysis of correlations, Guttman's MSA, Logit/Probit PCA of binary data, and Logistic Homogeneity Analysis.