



Biplots for Sparse Partial Least Squares

Opeoluwa Oyedele*

University of Cape Town, Cape Town, South Africa – OpeoluwaOyedele@gmail.com

At the core of multivariate statistics lies the investigation of the relationships between different sets of variables. More often, the number of these variables is very large, making it difficult to describe their structure and relationships. Solutions such as Partial Least Squares (PLS) and the biplot can be used as tools in this situation. In this paper, the PLS biplot for a sparse version of PLS is proposed as a visual solution. An illustration of the resulting biplot is provided, using a toxicity of carboxylic acids data.

Keywords: PLS biplot; PLS regression; SPLS algorithm; SPLS biplot.