A LEARNING ALGORITHM COMBINING FUNCTIONAL DISCRIMINANT COORDINATES AND FUNCTIONAL PRINCIPAL COMPONENTS

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Abstract
A new type of discriminant space for functional data is presented, combining the advantages of a functional discriminant coordinate space and a functional principal component space. In order to provide a comprehensive comparison, we conducted a set of experiments, testing effectiveness on 35 functional data sets (time series). Experiments show that constructed combined space provides a higher quality of classification of LDA method compared with component spaces.

Keywords: functional principal components, functional discriminant coordinates.

References


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