

Classification using function scraps

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Abstract

Function scraps are fragments of ‘whole’ curves that are, at least conceptually, conventional random functions defined over a common domain. In particular, a function scrap is observed only over a subinterval of the common domain, and the subintervals are generally different for different scraps. Functional data of this type are increasingly common. We shall suggest new methods for reconstructing the whole functions, and for classifying function scraps.