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Object Oriented Data Analysis: HDLSS Asymptotics

Object Oriented Data Analysis is the statistical analysis of populations of complex objects. In the special case of Functional Data Analysis, these data objects are curves, where standard Euclidean approaches, such as principal components analysis, have been very successful. An overview of insightful mathematical statistics for object data is given, based on High Dimension Low Sample Size asymptotics, where the dimension grows, but the sample size is fixed.