## ANCOVA for interval data: a bootstrap approach

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A bootstrap testing procedure for the analysis of covariance when interval-data are available is established on the basis of some asymptotic results. Specifically, the procedure allows us to analyze the effect of a factor on a interval-valued random set response which is related (by means of a given linear model based on the usual arithmetic between intervals) to an explanatory interval-valued random element, or covariate variable.