

## AGGREGATION OF A COMPARATIVE NON-PARAMETRIC STATISTICS TO DIDACTIC ENGINEERING

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### **Abstract**

This article presents an alternative analysis of data collected through a qualitative research methodology used particularly in investigations of Mathematics Education: Didactic Engineering. This methodology and qualitative methodology rejects all the features of classical statistics such as: parametric analysis, the case control or experimental groups and control groups. It rests on a comparison between two types of analysis affected *a priori* and *a posteriori* another. Its method of validation is internal. We believe that we can discuss about such validation and that the use of an appropriate quantitative method can increase the reliability of the results. In this perspective, we present an alternative to such analysis, the use of formalized tests in the theory of Non-Parametric Statistics for provide the Didactic Engineering with a treatment with features that meet the prerogative of falsifiability of Popper's scientific method. Our justification, for this research, is that this form does not require population model and does not require too many assumptions or accurate.

**Keywords:** Didactic Engineering; Non-parametric Statistics; Wilcoxon test; Falsifiability.