

## Statisztikai következtetés és kísérleti kutatás a pszichológiában: a statisztikai következtetési eljárások hatása a kísérleti eredményekre és a tudományos elméletek fejlődésére

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**Abstract:** The last decades were characterized by tremendous technological development, based on theoretical and applied research. The increased demand for new technology and extensive research, imply standardized and simplified research methodology. The present study analyses the impact of technologization on behavioral research methodology, especially on hypothesis-testing. First, we will outline the main criteria, which needs to be considered in the validation of scientific theories. Second we will present the rational of statistical analysis, pointing to the major deficits of current theory construction and validation methods. Third we will discuss the implications of current hypothesis-testing methodology on the interpretation of experimental results. We will argue that inappropriate utilization of statistical inference conducted to the acknowledgment of research methods, which allow the testing of scientific theories through statistical inference, but holds back the development of scientific theories.

**Keywords:** hypothesis testing, theory construction, statistical inference.