

The crisis of statistical inference: time has come for an epistemological reflection

Bruno Falissard

Université Paris-Sud 11, INSERM U669, bruno.falissard@gmail.com

Palavras-chave: statistical test, inference, epistemology, history of statistics

Resumo: For a decade, many papers are regularly published in famous scientific journals about the pitfalls of statistical inference and its impact on the advancement of science and even on scientific integrity. In fact there is a misunderstanding about what is scientific inference. This misunderstanding can be clarified looking closely at the 40 years of controversies that followed the seminal paper of R. Fisher in 1922. The way we teach statistics should take in consideration this epistemological and historical reflections.