



UNIVERSITY OF PADOVA

Beyond $p < .05$
Modern statistical approaches
in psychological science

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Perspectives on data mining

Data Mining methods, often referred to as machine learning and statistical learning, are a collection of statistical techniques capable of finding complex signals in large amounts of data. Given that much of these data are behavioral (e.g. cell phones applications, biosensors and social media), psychologists should have a major role in the analysis of these data.

In this talk I will review the principles and the risks of the data mining methods, with special attentions to small — but not too small — samples and complex data structures. The opportunities and the perspectives offered by these methods will be presented starting from some application to real data.