

COLOQUIO PROBEMOS



Seminario a cargo de
Jorge Mateu

Analogies of classical statistical and probabilistic concepts when dealing with spatio-temporal data

ABSTRACT: Classical concepts in statistics such as linear models are the backbone of many undergraduate courses. These concepts require additional assumptions and have to be rewritten when coping with data evolving in space and time. We consider extensions of ANOVA and clustering to the new framework. In addition, the basic but also essential Poisson distribution for count data is reconsidered when counts are spatially and temporally distributed. Applications to tornadoes, earthquakes, rat sightings, and crime events are considered.

This talk comes from a set of ongoing research with the following collaborators: C. Ayyad, P. Diggle, M. Ghorbani, J. Gonzalez, B. Graler, U. Hahn, F. Rodriguez-Cortes, I. Tamayo.

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Universitat Jaume I de Castelló.

