

Advances in statistical modelling and learning

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Statistical data analysis is currently facing major challenges arising from the possibility of new sources of information that has given rise to a wide variety of data types such as temporal data, structured data, biased data,... These types of data need new statistical methods that are adapted to their characteristics and that allow advanced modelling to obtain more reliable and powerful inferences. In this mini-symposium we will discuss some methods for functional data analysis in the context of neuroscience, where a mixture of independent signals such as EEG is available, and for which blind source separation methods will be proposed to isolate artifacts that mix with the original signal in the observed data. Methods for dealing with non-probability survey data affected by representativeness biases will also be considered using various estimation techniques such as multiple frame, machine learning and resampling. Finally, some aspects of fuzzy data estimation will be discussed.

Speakers

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