



UNIVERSITÀ
degli STUDI
di CATANIA

DIPARTIMENTO
di ECONOMIA
e IMPRESA

SEMINARIO

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Mixture models for circular data

Abstract: Circular data arise when statistical measurements take the form of angles. These data do not only appear in environmental and medical studies, but also in the social sciences. The unconventional support of circular data, the circle, requires specific statistical methods which belong to a rapidly growing discipline: directional statistics. In the applications, the distribution of circular data is often multimodal, because the data are typically observed under heterogeneous conditions. Under this setting, mixture models for circular data provide a natural strategy. This talk will show that directional statistics can be usefully integrated within the framework of mixture models. After a brief introduction to directional statistics and mixture models, the talk will focus on practical estimation issues and show some examples with real-world data.

Lunedì 28 Ottobre 2019, ore 17.00

Aula 13 - Palazzo delle Scienze, Corso Italia n°55, Catania
