

Maximal Non-Exchangeability: Consequences and Tests

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Studying the dependence structure in the distribution function H of a d -dimensional continuous random vector \mathbf{X} , the so called copula is crucial. Without being independent, \mathbf{X} (i.e. its components) might still be exchangeable. Exchangeability is a property of the copula. When choosing a family of copulas in order to model a given situation, it is important to know whether an exchangeable copula fits the data.

In this talk, a measure for the absence of exchangeability is presented. At first, explicit bounds for this measure will be given, generalizing a result for dimension two by Nelsen (2007), and Klement and Mesiar (2006). Second, two-dimensional testing procedures by Genest et al. (2012) will be generalized to arbitrary dimension.

References

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