

ANALYSIS OF THE SPATIAL DEPENDENCE STRUCTURE IN A REAL DATA

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- *ABSTRACT: The analysis of spatial dependence structure in a real data is of utmost importance in many areas of scientific knowledge. The aim of this paper is to present statistical methods to verify both the statistical significance of a correlogram and whether two populations, distributed in the same region, have the same spatial dependence structure. Whenever the method allows analysis of test power and type I error. The proposed methods are also applied on real data related to the coffee leaf miner (*Leucoptera coffeella*) from an organic coffee plantation. The results allow us to affirm that the proposed methods can be useful for achieving the aims for which they were developed.*
- *KEYWORDS: Moran index; autocorrelation; randomization; envelopes simulation; Coffee production.*

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