

Upper contour method in Joint Regression Analysis using R

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The use of the upper contour method in Joint Regression Analysis, on the comparison and selection of genotypes, was introduced by Mexia et al.(1997). The method considers adjusted regressions, one per genotype and a range whose limits are respectively the minimum and maximum adjusted environmental indexes.

Among the adjusted regressions in the considered range we enhance those that correspond to maximum production. The genotypes related to these regressions have a particular interest since when multiple comparisons are made, important conclusions can be drawn about the selection of the best genotypes.

Until now the upper contour method was not treated from a computational point of view. Using the R language we suggest a set of procedures, including graphic visualization, in order to simplify the use of that method.

References

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