## Stochastic validation of the zig-zag algorithm in Joint Regression Analysis

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#### Abstract

Joint Regression Analysis (JRA), has been a widely used technique in the evaluation of genotypes / cultivars.

[1] introduced the  $L_2$  environmental indexes that extend the benefits of the JRA techniques to breeding programs in incomplete blocks. [2] developed in a systematic way the JRA using  $L_2$  environmental indexes. The estimation of these indexes for incomplete blocks is achieved by an iterative algorithm - zig-zag algorithm. This algorithm works well but up to now we had no theoretical validation of it's results. We now present for it a stochastic validation.

#### Keywords

Joint Regression Analysis (JRA), Linear Regression,  $L_2$  environmental indexes, Zig-zag algorithm, Stochastic validation.

### References

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