Optimality of designs under models with interference dependence structure

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Abstract

We consider optimality of complete circular block designs under two models. First we assume that observations within blocks are correlated according to circular autoregression process and uncorrelated between blocks. In the second case we consider the mixed interference model with random interference effects.

The aim of the paper is to characterize optimal designs with respect to the D- and E-optimality criterion.

Keywords

Interference model, Circular autoregression, Complete circular block design, E-optimality, D-optimality, Information matrix.

References

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