

On optimality of binary designs under interference models

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Abstract

We present properties of information matrices of binary designs, especially neighbor balanced designs, in several interference models. Since we are interested in optimality of designs, we analyse such properties of information matrices as complete symmetry and maximality of the trace.

We study one- and two-dimensional interference models, where neighbor effects are fixed or random, and where observations can be correlated.

Keywords

Circular neighbor balanced design at distances 1 and 2; Interference model; Information matrix.

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