

ANOVA USING COMMUTATIVE JORDAN ALGEBRAS, AN APPLICATION

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Abstract

Binary operations on commutative Jordan algebras are used to carry out the ANOVA of a two layer model. The treatments in the first layer nests those in the second layer, that being a sub-model for each treatment in the first layer. We present an application with data retrieved from agricultural experiments.

Keywords: commutative Jordan algebras; variance components; orthogonal models; ANOVA.

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