



تفاصيل البحث:

*A Simulation Study On Tests Of Hypotheses For Fixed Effect :
In Mixed Models For One-Way Anova Under The Violation Of
The Equal Variances Assumption Of The Treatment Groups
With And Without Missing Data*

*A Simulation Study On Tests Of Hypotheses For Fixed Effect
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This article considers the analysis of experiment of one-way :
completely randomized design (one-way ANOVA) that is
frequently used in every discipline. We investigate a common
problem that is data collected in practice usually violate
parametric assumptions to some degree. We concentrated
our attention on ANOVA when the equal variances assumption
for the treatment groups is violated. We investigate the
performance of a general linear fixed effects model approach
(GLM procedure of the SAS System) in analyzing one-way)
ANOVA under the violation of only one assumption that is
heterogeneous variances. Also, we investigate the
performance of a general linear mixed effects model
approach (MIXED procedure of the SAS System) in analyzing
one-way ANOVA under the violation of only one assumption
that is heterogeneous variances as alternative to GLM
procedure of the SAS System. The main result of our article is
that the general linear mixed effects model approach can be
recommended to be used in case of the suspicion of the
violation of the equal variances assumption specially in case
of unbalanced data where the general linear fixed effects
model approach showed serious departures upward from the
.nominal level

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