

Formula for the Confidence Interval for a Variance

$$\frac{(n-1)s^2}{\chi_{\text{right}}^2} < \sigma^2 < \frac{(n-1)s^2}{\chi_{\text{left}}^2}, \quad \text{d.f.} = n - 1$$

Formula for the Confidence Interval for a Standard Deviation

$$\sqrt{\frac{(n-1)s^2}{\chi_{\text{right}}^2}} < \sigma < \sqrt{\frac{(n-1)s^2}{\chi_{\text{left}}^2}}, \quad \text{d.f.} = n - 1$$

Confidence Intervals On Variance Components

Kok-Leong Chiang



Confidence Intervals On Variance Components:

Confidence Intervals on Variance Components Burdick,1992-02-28 Summarizes information scattered in the technical literature on a subject too new to be included in most textbooks but which is of interest to statisticians and those who use statistics in science and education at an advanced undergraduate or higher level Overviews recent research on constructin *Confidence Intervals on Variance Components* Burdick,1992-02-28 Summarizes information scattered in the technical literature on a subject too new to be included in most textbooks but which is of interest to statisticians and those who use statistics in science and education at an advanced undergraduate or higher level Overviews recent research on constructin **Confidence Intervals for Variance Components in Two Components Mixed Models** Chang-Yue Ueng,1997 **Confidence Intervals for Variance Components in Unbalanced Models** Rana S. Fayyad,1995

Confidence Intervals for Variance Components in the Two Way Model with Interaction Ricardo Anibal Leiva, Franklin A. Graybill, Colorado State University. Department of Statistics,1984 **Confidence Intervals for Variance Components** Kathleen G. Purdy,1998 Measuring the source and magnitude of components of variation has important applications in industrial environmental and biological studies This thesis considers the problem of constructing confidence intervals for variance components in Gaussian mixed linear models A number of methods based on the usual ANOVA mean squares have been proposed for constructing confidence intervals for variance components in balanced mixed models Some authors have suggested extending balanced model procedures to unbalanced models by replacing the ANOVA mean squares with mean squares from an unweighted means ANOVA However the unweighted means ANOVA is only defined for a few specific mixed models In Chapter 2 we define a generalization of the unweighted means ANOVA for the three variance component mixed linear model and illustrate how the mean squares from this ANOVA may be used to construct confidence intervals for variance components Computer simulations indicate that the proposed procedure gives intervals that are generally consistent with the stated confidence level except in the case of extremely unbalanced designs A set of statistics that can be used as an alternative to the generalized unweighted mean squares is developed in Chapter 3 The intervals constructed with these statistics have better coverage probability and are often narrower than the intervals constructed with the generalized unweighted mean squares *Confidence Intervals on Variance Components in Three Factor Cross-Classification Models* Franklin A. Graybill, Sakthivel Jeyaratnam, COLORADO STATE UNIV FORT COLLINS DEPT OF STATISTICS.,1980 The problem discussed in this paper is that of setting confidence limits on the variance components in the three factor crossed components of variance model with interaction [Estimation of Confidence Intervals for Variance Components and Linear Combinations of Variance Components for Gage Capability Studies](#) Bradley L. McEwan,1996 [Confidence Intervals on Functions of Variance Components](#) Chih-ming Wang,1978 [Confidence Intervals on Ratios of Variance Components](#) Nancy J. Birch,1988 **Variance Components** Poduri S.R.S. Rao,1997-06-01 Variance Components

Estimation deals with the evaluation of the variation between observable data or classes of data This is an up to date comprehensive work that is both theoretical and applied Topics include ML and REML methods of estimation Steepest Acent Newton Raphson scoring and EM algorithms MINQUE and MIVQUE confidence intervals for variance components and their ratios Bayesian approaches and hierarchical models mixed models for longitudinal data repeated measures and multivariate observations as well as non linear and generalized linear models with random effects Robust Confidence Intervals for Functions of Variances and Variance Components Abdelrahim M. Barham,1996 **Confidence Intervals for Variance Components in Mixed Linear Models** Shyh-Tyan Ou,1994 Confidence Intervals on Functions of Variance Components in Unbalanced Two-way Design Models Syamala Srinivasan,1986 **Confidence Intervals for Functions of Variance Components in Random Effect Models** Naitee Ting,Colorado State University. Department of Statistics,1987 **Confidence Intervals on Ratios of Variance Components in the Three Stage Nested Unbalanced Model** Bhabesh Sen,Colorado State University. Department of Statistics,1988 **Lower-bound Confidence Intervals on Functions of Variance Components** William Burrage Owen,1962 *A Confidence Interval for Variance Components* Stephen LIPTON,1956 **Confidence Intervals on Sums, Differences and Ratios of Variance Components** Tai-Fang C. Lu,Colorado State University. Department of Statistics,1985 Confidence Intervals for Functions of Variance Components Kok-Leong Chiang,2000 Moreover it is extremely easy to implement and delivers both equal tail and shortest length confidence intervals for any parametric function of interest In contrast only a small number of MLS methods have prescriptions for computing a sort of shortest length interval We demonstrate the effectiveness of the proposed method for estimating several commonly studied functions of variance components in various standard models including the two way random effects model with and without interaction the two fold nested random effects model and the three factor cross classification random effects model We show that the proposed intervals easily maintain the nominal confidence level and have average interval lengths that are comparable to or better than those of the best existing methods Moreover we show that in a particular application the standard MLS method of Gui et al 1995 can be extremely liberal while the proposed method easily maintains the nominal confidence level

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