

Components of variance - Summary



Variance Components

Julia Schneider



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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

Estimation of Variance Components and Applications Calyampudi Radhakrishna Rao, Jürgen Kleffe, 1988 Matrix algebra Asymptotic distribution of quadratic statistics Variance and covariance components models Identifiability and estimability minimum norm quadratic estimation Pulling of information for estimation Uniform optimality of minqes Computation of minqes for variance covariance components models Integrated minqe and mile Asymptotic properties estimators Minimum variance quadratic estimation Applications to selection problems

Variance Components Estimation Poduri S. R. S. Rao, 1997 *Optimal Unbiased Estimation of Variance Components* James D. Malley, 2012-12-06

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

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R. S. Rao,1997 VI Hotine-Marussi Symposium on Theoretical and Computational Geodesy Peiliang Xu,Jingnan Liu,Athanasios Dermanis,2008-02-27 This volume of proceedings is a collection of refereed papers resulting from the VI Hotine Marussi Symposium on Theoretical and Computational Geodesy The papers cover almost every topic of geodesy including satellite gravity modeling geodynamics GPS data processing statistical estimation and prediction theory and geodetic inverse problem theory In addition particular attention is paid to topics of fundamental importance in the next one or two decades in Earth Science *Unbiased Estimators of Variance Components in Simple Unbalanced Designs* Edwin Cecil Townsend,1968 Components of Variance D.R. Cox,P.J. Solomon,2002-07-30 The components of variance is a notion essential to statisticians and quantitative research scientists working in a variety of fields including the biological genetic health industrial and psychological sciences Co authored by Sir David Cox the pre eminent statistician in the field this book provides in depth discussions that set forth the essential principles of the subject It focuses on developing the models that form the basis for detailed analyses as well as on the statistical techniques themselves The authors include a variety of examples from areas such as clinical trial design plant and animal breeding industrial design and psychometrics **NBS Special Publication** ,1970 **Pooling Maximum Likelihood Estimates of Variance Components Obtained from Subsets of Unbalanced Data** James Scott Babb,1986 **Studies on the Estimation of Variance Components** Robert Donald Anderson,1978 An Author and Permuted Title Index to Selected Statistical Journals Brian L. Joiner,1970 All articles notes queries corrigenda and obituaries appearing in the following journals during the indicated years are indexed Annals of mathematical statistics 1961 1969 Biometrics 1965 1969 3 Biometrics 1951 1969 Journal of the American Statistical Association 1956 1969 Journal of the Royal Statistical Society Series B 1954 1969 2 South African statistical journal 1967 1969 2 Technometrics 1959 1969 p iv **Generalizability Theory** Richard J. Shavelson,Noreen M. Webb,1991-07-23 In this volume Shavelson and Webb offer an intuitive development of generalizability theory and cover a wide variety of topics such as generalizability studies with nested facets and with fixed facets measurement error and generalizability coefficients and decision studies with same and with different designs Detailed illustrations examples and exercises all serve to clearly describe the logic underlying major concepts in generalizability theory and assist readers in applying these methods when investigating the consistency of their own measurements *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 *Restricted Maximum Likelihood Estimation of Variance Components for Multiple Traits with Missing Observations and an Application to Beef Cattle* Dorian John Garrick,1988 *Quantitative Genetics and Selection in Plant Breeding* Günter Wricke,Eberhard Weber,1986 No detailed description available for Quantitative Genetics and Selection in Plant Breeding **Analysis of Variance for**

Random Models, Volume 2: Unbalanced Data Hardeo Sahai, Mario M. Ojeda, 2004-11-12 Systematic treatment of the commonly employed crossed and nested classification models used in analysis of variance designs with a detailed and thorough discussion of certain random effects models not commonly found in texts at the introductory or intermediate level It also includes numerical examples to analyze data from a wide variety of disciplines as well as any worked examples containing computer outputs from standard software packages such as SAS SPSS and BMDP for each numerical example

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

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