

Symposium Program

January 20-22, 2000

Thursday, January 20

7:00-10:00 P.M. Reception at Keene Faculty Center (in Dauer Hall)

Friday, January 21

Room 349, Reitz Union

8:00-8:30 A.M. Breakfast

8:30-10:00 A.M. **Session 1: Nonnegative Estimation of Variance Components**
Chair: Andre Khuri

Rao, Poduri Nonnegative Estimators of Variance Components Utilizing Prior Information
Sinha, Bimal Nonnegative Estimation of Variance Components in Multivariate Unbalanced Mixed Models With Two Variance Components

10:00-10:30 Break

10:30-12:00 Noon **Session 2: Confidence Intervals for Variance Components**
Chair: Ronald Randles

Seely, Justus Confidence Intervals for Variance Components
Datta, Gauri Probability Matching Priors for One-Way Unbalanced Random Effects Models

12:00 Noon - 1:30 P.M. Lunch (Arredondo Room-Reitz Union)

1:30-3:00 P.M. **Session 3: Optimal Designs and Manufacturing Processes**
Chair: John Cornell

Burdick, Richard Using Variance Component Models to Compare Variability of Manufacturing Processes
Lohr, Sharon Optimal Design for Variance Components and Design Implementation

3:00-4:00 P.M. Group Picture/Break

4:00-5:30 P.M. **Session 4: Estimation for Mixed Models**
Chair: Malay Ghosh

Rao, Jon Estimation of MSE of EBLUP Estimators Under General Mixed AVOVA Models
Lahiri, Partha Jackknife Estimation of Variance Components

5:45-6:45 P.M.

Poster Session

- Aviles, Ana Optimal Assembled Designs With Variance Components
- Balzarini,
Monica Mixed AMMI Models for Investigating Genotype-Environment Interaction
- Chiang, Andy A Simple General Method for Constructing Confidence Intervals for Functions of Variance Components
- Hartless, Glen Local Influence Diagnostics for the Prediction of Random Effects in a Linear Mixed Model
- Parmet,
Yisrael Variance Components in Disassembly and Reassembly Experiments
- Smith,
Stephen P. Some Facts that Illustrate the Connection Between REML and the Cholesky Decomposition
- Unver, Yajut Comparison of Variance Component Estimation Methods for Clutch Pattern in Laying Hens

7:30-11:00 P.M.

Dinner at Keene Faculty Center

Saturday, January 22
Room 349, Reitz Union

8:00-8:30 A.M.

Breakfast

8:30-10:00 A.M.

Session 5: New Approaches for the Random Model
Chair: Ramon Littell

- Mathew,
Thomas The One-Way Random Model: Some New Problems and Applications
- Khuri, Andre Modeling the Power Function for a Variance Component Under Heterogeneous Error Variances

10:00-10:30 A.M.

Break

10:30-12:00 Noon

Session 6: Applications in Genetics
Chair: P.K. Sen

- Gianola,
Daniel Bayesian Random Regression Models for Longitudinal Binary Data with Applications to Dairy Cattle Breeding
- Speed, Terry Variance Components Models for Mapping Human Quantitative Trait Genes: A Brief Survey

12:00 Noon - 1:30 P.M.

Lunch (Arrendondo Room-Reitz Union)

1:30-3:00 P.M.

Session 7: Non-Conjugate Bayesian Analysis
Chair: Brett Presnell

- Wolfinger, Non-Conjugate Bayesian Analysis of Variance Component Models

Russell

Ghosh, Malay Non-Conjugate Bayesian Analysis of One Parameter Item Response Models

3:00-3:30 P.M.

Break

3:30-5:00 P.M.

Session 8: Qualitative Responses and GLMM

Chair: Ranjini Natarajan

Qaqish,
Bahjat

Variance Components for Dependent Qualitative Responses

Sutradhar,
Brajendra

On Recent Estimation Approaches for Variance Components in Generalized Linear
Mixed Models

vca@stat.ufl.edu

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