**IMS/ASA Spring Research Online Meet**

**May 19-20, 2022 (Thursday and Friday)**

DAY 1 (May 19)

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12 PM to 12:05 PM

**Opening remarks by Xinwei Deng**, Virginia Tech, Co-Chair, Organizing Committee

12:05 PM to 1:10 PM

**Keynote speech** by **C. F. Jeff Wu**, Georgia Institute of Technology

Analysis-of-Marginal-Tail-Means (ATM): A Robust Method for Discrete Black-Box Optimization

**Chair: Ying Hung**, Rutgers University

1:15 PM to 2:45 PM

**Technical Session I:** **Computer Experiments, Gaussian Processes and Bayesian models**

**Chair: Nathaniel Stevens**, University of Waterloo

* **Annie Sauer**, Virginia Tech

Vecchia-approximated Deep Gaussian Processes for Computer Experiments

* **John Yanotty**, Ohio State University

Model Mixing with Bayesian Additive Regression Trees

* **Irene Ji**, Duke University

A graphical multi-fidelity Gaussian process model, with application to emulation of expensive computer simulations

* **Ruda Zhang**, Duke University

Gaussian Process Subspace Prediction for Dimension Reduction of Computational Models

* **Cheoljoon Jeong**, University of Michigan, Ann Arbor

Multi-block Parameter Calibration in Computer Models

3 PM to 4:30 PM

**Panel Discussion I:** Careers in the academia and industry after obtaining a doctoral degree in Statistics

**Panelists**: **Emily Casleton** (Los Alamos), **Nicole Pashley** (Rutgers University), **Simon Mak** (Duke University), **Jean Pouget-Abadie** (Google)

**Moderator: Tirthankar Dasgupta, Rutgers University**

DAY 2 (May 20)

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12 PM to 1:20 PM

**Panel Discussion II**: Future of the three traditional pillars of industrial statistics: Statistical Process Monitoring and Control, Reliability and Design of Experiments.

**Panelists:** **Allison Jones Farmer** (Miami University, Oxford), **Bill Meeker** (Iowa State University), **Bradley Jones** (JMP).

**Moderator: Arman Sabbaghi,** Purdue University

1:30 PM to 3:20 PM

**Technical Session II**: Statistical methodology and applications in today’s science, industry engineering and sports

**Chair**: **David Stenning**, Simon Fraser University

* **Vincent M. Geels**, Ohio State University

A Tree-Based Transformation Approach for Modeling Counts

* **Chaofan Huang,** Georgia Tech

Constrained Minimum Energy Designs

* **Shubhajit Sen**, NCSU

A Flexible Bayesian Regression Approach for Modeling Interval Data

* **Jie Min**, Virginia Tech

Reliability Analysis of Artificial Intelligence Systems Using Recurrent Events Data from Autonomous Vehicles

* **Nirodha Epasinghege Dona**, Simon Fraser University

Expected Economy Rate

* **Zhengzhi Lin**, Virginia Tech

The Poisson Multinomial Distribution and Its Applications in Voting Theory, Ecological Inference, and Machine Learning

**Wrap up:** 3:20 - 3:30 PM

**Closing Remarks:** **Xinwei Deng**, Virginia Tech, Co-Chair, Organizing Committee