

## JSM 2021 Online Program

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### **All Times EDT**

#### Legend:

\* = applied session ! = JSM meeting theme

Activity Details

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28 Sun, 8/8/2021, 1:30 PM - 3:20 PM

**Virtual** 

Computation, Design, and Quality Assurance of Physical Science and Engineering Applications — Contributed Speed

#### Section on Physical and Engineering Sciences

Chair(s): Ana Maria Estrada Gomez, Georgia Institute of Technology

- 1:35 PM Model-Independent Detection of New Physics Signals
  Using Interpretable Semi-Supervised Classifier Tests
  Purvasha Chakravarti, Imperial College London;
  Mikael Kuusela, Carnegie Mellon University; Jing Lei,
  Carnegie Mellon University; Larry Wasserman, Carnegie
  Mellon University
- 1:40 PM <u>Missing-Data Coherency Estimation</u>
  Charlotte Haley, Argonne National Laboratory
- 1:45 PM Scalable Statistical Inference of Photometric Redshift
  via Data Subsampling
  arindam fadikar, argonne national laboratory; Stefan
  M Wild, argonne national laboratory; Jonas ChavesMontero, Donostia International Physics Centre
- 1:50 PM <u>Statistical Computation of Thermal Conductivity in</u>
  <u>Neutron Star Matter 'Pastas'</u>

Guillermo Frank, Universidad Tecnolo?gica Nacional, Facultad Regional Buenos Aires; Claudio Dorso, Instituto de F??sica de Buenos Aires, CONICET; Alejandro Strachan, School of Materials Engineering, Purdue University

1:55 PM <u>Measurements of Photonicity in Optically-Dense,</u> <u>Multiphoton-Reactive Systems</u>

> Peter Hovey, University of Dayton; Mark Masthay, University of Dayton; Wenyue Wang, University of Dayton; David Johnson, University of Dayton; Merritt Helvenston, New Mexico Highlands University

- 2:00 PM <u>Determining the Accuracy and Precision of DEEP2</u>
  <u>Spectroscopic and Photometric Galaxy Redshift</u>
  <u>Measurements Using a Measurement Error Model</u>
  Richard Anthony Bilonick, R. A. Bilonick Statistics
  Consultancy LLC
- 2:05 PM Latent Function Calibration to Estimate Shock
  Hugoniots
  Scott Vander Wiel, Los Alamos National Laboratory

## 2:10 PM <u>Learning and Deploying Active Subspaces on Black</u> Box Simulators

Nathan Wycoff, Virginia Tech; Mickaël Binois, INRIA; Stefan M Wild, argonne national laboratory; Robert B Gramacy, Virginia Tech

- 2:15 PM Statistical Emulation with Dimension Reduction for
  Complex Forward Models in Remote Sensing
  Gang Yang, University of Cincinnati; Emily Kang,
  University of Cincinnati; Bledar Alex Konomi, University
  of Cincinnati; Jonathan Hobbs, Jet Propulsion
  Laboratory, California Institute of Technology
- 2:20 PM Comparing Initial Designs for Bayesian Optimization
  Kasia Dobrzycka, North Carolina State University
  Statistics Department; Jon Stallrich, North Carolina
  State
- 2:30 PM Empirical Estimation of the Effect of Frequency
  Content of Earthquake Ground Motions on Structural
  Collapse Risk Based on Generalized Linear Model
  Min Shu, University of Wisconsin Stout; Ruiqiang Song,
  Michigan Technological University
- 2:35 PM Statistical Analysis of Oil and Gas Pipelines to Predict
  Pipe Grade Using Power BI
  William V Harper, DNV; Thomas A Bubenik, DNV; Tara P
  McMahan, DNV; Benjamin R Hanna, DNV; Steven J
  Polasik, DNV; Adriana P Nenciu, Otterbein University;
  Stacy G Hickey, DNV; David J Stucki, Otterbein
- 2:40 PM Estimating and Comparing the Stable Crack Growth
  Region for Additively Manufactured Metals
  Lucas Koepke, National Institute of Standards and
  Technology; Jolene Splett, National Institute of
  Standards and Technology; Nik Hrabe, National
  Institute of Standards and Technology; Jake Benzing,
  National Institute of Standards and Technology;
  Timothy Quinn, National Institute of Standards and
  Technology
- 2:45 PM <u>Multiple Objective Latin Hypercube Designs for</u>
  Computer Experiments

University

**Damola Akinlana, University of South Florida**; Lu Lu, University of South Florida

### 2:50 PM Neural Network for Prediction of Functional Data

Weiru Han, Department of Mathematics & Statistics, University of South Florida; Lu Lu, University of South Florida; Jiangfeng Zhou, Department of Physics, University of South Florida

### 2:55 PM A Generalized Bayesian CUSUM Control Chart

Chelsea Jones, Virginia Commonwealth University; D'Arcy Mays, Virginia Commonwealth University; AbdelSalam AbdelSalam, Qatar University

# 3:00 PM Robust Multivariate CUSUM for Phase II Profile Monitoring

AbdelSalam AbdelSalam, Qatar University

# 3:05 PM Risk Score Monitoring Using Change Point Detection and its Application in Health Management

Yuhui Yao, The University of Alabama; Subha Chakraborti, The University of Alabama; Xin Yang, The University of Alabama; Jason Parton, The University of Alabama; Dwight Lewis, The University of Alabama; Matthew Hudnall, The University of Alabama

# 3:10 PM <u>Modified Control Chart for Monitoring the Process</u> <u>Dispersion</u>

**Felipe Schoemer Jardim, Fluminense Federal University**; Subha Chakraborti, The University of
Alabama; Tiago Landim, Federal University of São
Carlos; Pedro Oprime, Federal University of São Carlos

3:15 PM Floor Discussion

#### **American Statistical Association**

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