Non-Deterministic Approaches at SciTech 2024

Call for Papers Supplemental Information

Technical Discipline Chairs: Pankaj Joshi, ZAL Center of Applied Aeronautical Research
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Joint Session Topics

The following topics will be jointly hosted by Non-Deterministic Approaches (NDA) and corresponding technical disciplines:

Joint session between NDA and Guidance, Navigation, and Control (GNC), contact: Michael Niestroy (michael.a.niestroy@lmco.com)
- Uncertainty Quantification and Analysis of Complex Aerospace Systems

Joint session between NDA and Materials (MAT)
- Uncertainty Quantification and Model Validation for ICME, contacts: Pankaj Joshi (Pankaj.joshi@zal.aero) for NDA, Jessica Piness (jmpiness@gmail.com) for MAT

Joint sessions between NDA and Multidisciplinary Design Optimization (MDO), contact: Graeme J. Kennedy (graeme.kennedy@aerospace.gatech.edu)
- Design Under Uncertainty
  - Physics-informed Machine Learning
  - Probabilistic Machine Learning for Uncertainty Quantification in Complex Systems

Joint session between NDA and Meshing, Visualization, and Computational Environments (MVCE), contact: Nitin Bhagat (nbhagat1@udayton.edu)
- Mesh Quality, Adaptive Meshing, Error Estimation, and Uncertainty Quantification

Joint session between NDA and Wind Energy (WE), contact: TBA
- Uncertainty Analysis Advancements for Wind Energy Applications

Joint session between NDA and Structural Dynamics (SD), contact: Todd Griffith (tgriffith@utdallas.edu)
- Uncertainty Quantification for Acoustics and Structural Dynamics