# Non-Deterministic Approaches at SciTech 2024

## Call for Papers Supplemental Information

Technical Discipline Chairs: Pankaj Joshi, ZAL Center of Applied Aeronautical Research (pankaj.joshi@zal.aero)
Ashwin Renganathan, Pennsylvania State University (ashwin.renganathan@psu.edu)

## 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