Non-Deterministic Approaches at SciTech 2023

Call for Papers Supplemental Information

Technical Discipline Chairs: Diane Villanueva, MITRE (dvillanueva@mitre.org)
Pankaj Joshi, ZAL Center of Applied Aeronautical Research (pankaj.joshi@zal.aero)

Joint Session Topics

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

Joint session between NDA and Applied Aerodynamics (APA), contact: Kidambi Sreenivas (Kidambi-Sreenivas@utc.edu)

- Aerodynamic Design Under Uncertainty

Joint session between NDA and Digital Engineering (DGE), contact: John Matlik (John.F.Matlik@Rolls-Royce.com)

- Uncertainty Quantification and Management in Digital Engineering and Digital Twins

Joint session between NDA and Guidance, Navigation, and Control (GNC), contact: Michael McFarland (michael.b.mcfarland@rtx.com)

- Uncertainty Quantification and Analysis of Complex Aerospace Systems

Joint session between NDA and Materials (MAT)

- Uncertainty Quantification and Model Validation for ICME, contacts: Barron Bichon (barron.bichon@swri.org) for NDA, Michael Sangid (msangid@purdue.edu) for MAT

Joint sessions between NDA and Multidisciplinary Design Optimization (MDO), contact: Felipe Viana (viana@ucf.edu)

- Design Under Uncertainty
- Physics-informed Machine Learning

Joint session between NDA and Meshing, Visualization, and Computational Environments (MVCE), contact: Stephen Nichols (dsnichols@gmail.com)

- Mesh Quality, Adaptive Meshing, Error Estimation, and Uncertainty Quantification

Joint session between NDA and Wind Energy (WE), contact: Brent Houchens (brent.houchens@sandia.gov)

- Uncertainty Analysis Advancements for Wind Energy Applications