

Advancements in Aircraft System Identification

Tuesday, April 23rd, 2024

03:00 PM

Maeder Hall 102

MAE Special Seminar



Jared Grauer

NASA Langley Research Center

Aircraft system identification involves the determination of dynamic models from measured flight data. Recently, the Journal of Aircraft published a special issue in which authors summarized advances in aircraft system identification made at their institutions over the last 20 years. This talk discusses some of those advances made at NASA Langley Research Center. Examples include X-planes, hypersonic and launch vehicles, aeroelastic aircraft and wind tunnel test articles, and subscale demonstrators.

Dr. Jared Grauer is a research engineer at NASA Langley Research Center in the Dynamic Systems & Control branch. His work there focuses on improving aircraft system identification and feedback control methods to better support NASA missions and strategic research goals. He is an associate fellow of the AIAA, vice chair of its Atmospheric Flight Mechanics technical committee, author of over 100 technical papers, and a board member of the ACGSC. He holds B.S., M.S., and Ph.D. degrees from the University of Maryland.