



## AIAA Applied Aerodynamics Surrogate Modeling Special Sessions at SciTech 2026 - January 12-16, 2026, Orlando, Florida

This is the first call for abstracts for the 2026 SciTech Applied Surrogate Modeling special sessions. The abstract deadline is May 22<sup>nd</sup>, 2025, 2000 hrs ET.

The past decade has seen rapid growth in data from simulations as well as sensors. The increase in available data, combined with advances in AI/ML technologies, has prompted development of fast-running surrogate models. In contrast to traditional experimental tests and high-fidelity computational simulations which can require hundreds of hours to setup and run, surrogate models trained on the data from these sources run at speeds comparable to that of a traditional database. This group considers the accuracy, speed, and applicability of surrogate modeling for aerospace engineering applications such as design optimization, uncertainty analysis, systems engineering, and mission models. Authors investigating surrogate modelling strategies and technologies in the field of Applied Aerodynamics are encouraged to submit to this special session. This includes but is not limited to work addressing one or multiple of the Applied Aerodynamics Surrogate Modeling Benchmark Cases presented during SciTech 2025 and are seen below. For further information on the benchmark cases see <https://aiaaappliedsurroga.wixsite.com/website>

When submitting through AIAA's conference website for SciTech-2026, please choose:

Topic -> "Applied Aerodynamics",

Sub-Topic -> "Special Session: Applied Surrogate Modeling".

This will ensure that the abstract is tagged correctly for the session and does not go into the general pool.

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