

Call for Paper – AIAA Aviation 2023 Technical Discipline - Air Transportation Systems (ATS)

ATS Technical Committee Members

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Submission Guidelines

Please submit extended abstracts sufficiently demonstrating preliminary objectives, approach, and results using the link at <https://www.aiaa.org/aviation/>. Extended abstracts are expected to contain a **minimum of 3 full pages** (excluding references) with convincing technical contribution and progress. All extended abstracts will be evaluated by qualified individuals from industry, academia, or government. Reviews will be single-blind, and authors will be provided with reviewer feedback or scores. Authors are advised to incorporate reviewer comments (if any) into their final manuscripts if accepted. To help reviewers provide informed evaluations and constructive comments that will stimulate discussion, each submission should clearly and concisely:

- State the key research questions being addressed or state the research objective(s).
- Provide literature survey for relevant, comprehensive and up-to-date references on previous work and current state-of-the-art. Then explain the specific technical challenges addressed or identify the technical gap(s) in your paper.
- Ensure proper formatting/spelling of all cited references
- State specific innovations and/or your technical contributions in this paper, including acknowledgment of any previously published works (from you) being built upon.
- Present sufficient initial evidence in appropriate detail to support correctness of proposed ideas (e.g., preliminary data from simulation/hardware experiments, theorems with proofs/sketches, illustrative numerical examples, etc.).
- Provide a detailed sketch of deliverables for the final full manuscript submission and conference presentation (e.g., simulations, experiments or analyses to be performed, etc.).

Areas of Interest

The Air Transportation Systems Committee invites technical papers that describe the advancement of air transportation systems and operations, including concepts, technologies, procedures, algorithms, functions, analyses that can help improve safety, efficiency, scalability, sustainability of existing airspace, airline and airport management systems; concept, development, algorithms, testing, operations of new traffic systems for improved access to the National Airspace System (NAS) for new vehicle operations, such as Unmanned Aerial Systems (UAS), UAS Traffic Management (UTM), Advanced Air Mobility (AAM), extensible Traffic Management System (xTM) and their integration into the NAS; Application of new technologies and methods such as data science, machine learning, and artificial intelligent in related topics; modeling and simulation techniques that help advance conventional and non-conventional air transportation systems.

The ATS Best Paper Award and ATS Best Student Paper Award

There is an ATS award committee to evaluate all submitted full papers (not the abstracts) and select the best paper award and the best student paper award in each year's conference. The award candidates will be informed before the conference. The awards will be announced and presented to the authors in the same year's AIAA Aviation conference.