

Vertical/Short Take-Off and Landing (V/STOL) Aircraft Systems

Call for Papers: Additional Details

Topics of Special Interest

Sponsored by the Vertical/Short Take-Off and Landing (V/STOL) Aircraft Systems Technical Committee

Industry representatives, researchers, graduate and undergraduate students conducting work in V/STOL Aircraft Systems-related areas are encouraged and welcome to submit papers. In keeping with the objectives of the V/STOL Aircraft Systems TC, the following paper topics are of special interest:

- Design, development, and operation of V/STOL personal air vehicles that can operate in urban canyons, dense forests, high-elevation mountainous terrain, and/or off boats, ships, and offshore platforms with limited open deck area.
- Research and development (R&D) challenges and approaches required to design, develop, and operate an Ultra-Heavy-Lift V/STOL aircraft- maximum takeoff gross weight greater than 45,360 kg (100,000 lb.).
- S&T into cooperative teaming to allow increased sling-load cargo transport capability, formation hovering position-hold over a given location for sensing or illumination, etc.
- Research into the S&T challenges and approaches necessary to combine the runway independence of helicopters with the payload capability, cruise speed, and range of current generation mid-size business jets.
- Current R&D into STOL bush plane design, development, and operation.
- S&T research and insertion into STOL airplane design, development, and operation for STOLport utilization in geographically-constrained megacities.