

STS

The Leading-Edge Computational Methods for Green Aviation

Chair: Wen BAI¹

¹ Chinese Aeronautical Establishment (CAE), Beijing, People Republic of China
baiwen@cae.ac.cn

Session Abstract

Key Words: *Computational Aerodynamics, Computational Structure, Artificial Intelligence (AI), Model-Based Systems Engineering, New Energy Air Vehicles.*

The STS, organized by Chinese Aeronautical Establishment (CAE), will address the most recently developed computational methods and its applications in aeronautical science and technology.

The topics include:

- Computational aerodynamics,
- Computational structure and material mechanics,
- Applications of Artificial Intelligence (AI) in numerical simulations,
- Model-Based Systems Engineering (MBSE) coupled MDAO, and the
- Concepts of new energy air vehicle,

Special aspects will be the applications for the global Climate-Neutral Aviation.