



CALL FOR PAPERS

ICFMA 2021
Mar 29-30, 2021
Singapore, SG

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICFMA 2021 : International Conference on Flight Mechanics and Aerodynamics is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Flight Mechanics and Aerodynamics. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Airplane flight mechanics
Point-mass dynamics and aerodynamic forces
Low-speed aerodynamics
Induced drag and high-speed aerodynamics
Aerodynamic moments
Cruising flight performance
Gliding, climbing, and turning flight performance
Translation, rotation, and flight path computation
Aircraft control devices and systems
Linearized equations of motion
Linearized longitudinal equations of motion
Linearized lateral-directional equations of motion
Time response of linear, time-invariant (lti) systems

Transfer functions and frequency response
Root-locus analysis of parameter variations and feedback control
Advanced problems of longitudinal dynamics
Longitudinal flying qualities criteria
Advanced problems of lateral-directional dynamics
Lateral-directional flying qualities criteria
Maneuvering at high angles and angular rates
Aeroelasticity and fuel slosh
Problems of high speed and altitude
Flight and wind tunnel testing
Atmospheric hazards to flight
3DOF equations of motion
Atmosphere, aerodynamics, and propulsion