



CALL FOR PAPERS

ICAPA 2021
Mar 25-26, 2021
Tokyo, Japan

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.

ICAPA 2021 : International Conference on Aerospace Propulsion and Aerodynamics is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Aerospace Propulsion 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:

Aerospace propulsion

Aircraft propulsion

Compressible flow with friction and heat

Engine thrust and performance parameters

Gas turbine engine cycle analysis

Aviation and uninhabited aerial vehicle propulsion system

Aircraft engine inlets and nozzles

Combustion chambers and afterburners

Axial compressor aerodynamics

Centrifugal compressor aerodynamics

Aero-thermo-dynamics of gas turbines

Aircraft engine component matching and off-design analysis

Chemical rocket and hypersonic propulsion

Aero-engine types

Reciprocating engines

Jet engines: turbojet, turbofan, propfan, turboprop, and ramjets

Engine parameters and performances

Jet fuel

Combustion chamber

From fuel to thrust: the energy conversion chain in jet propulsion

The simplest turbojet model

Thermal and mechanical limitations in jet engines

Jet engine auxiliaries: start-up, electrical, pneumatic and hydraulic services

Engine maintenance

Matching engines and aircraft

Aerodynamic drag and required propulsion power