Special Issue

Gas Turbines Propulsion and Power

Message from the Guest Editors

Gas turbines engines are extensively used in aviation because of their advantageous volume and weight characteristics. The engines are designed to offer cost-effective features such as high efficiency, reliability and availability. Understanding their aero-thermodynamic performance is a prerequisite for many developments in their cycle, components' design and maintenance techniques. Modelling and simulating the jet engine at a preliminary design phase is very important for minimizing the development cost and optimizing its performance. This goal calls for new tools and techniques for assessing engine's performance under a variety of configurations, alternative fuels or/and fluid flows. Variable geometry engines, open rotor and high by-pass turbofan are examples of different configurations. Particulate or multiphase flows such as water droplets and sand particles have an effect on engine's performance. Understanding engine's operation at a preliminary design phase is essential for any development.

Guest Editors

Prof. Dr. Pericles Pericles Pilidis

Centre for Propulsion Engineering, Cranfield University, Bedfordshire MK43 0AL, UK

Dr. Theoklis Nikolaidis

Centre for Propulsion Engineering, Cranfield University, Bedfordshire, UK

Deadline for manuscript submissions

closed (31 January 2017)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/7234

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

MDPI