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Cutting-Edge Mobility Solutions for High Efficiency Propulsion Systems

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Message from the Guest Editors

The development of a roadmap aimed at reducing Greenhouse Gases and Carbon footprint is one of the most urgent global challenges. Green and sustainable mobility must be addressed with a holistic approach that considers the efficient use of the energy, the climate impact as well as social implications.

The main technological breakthroughs range from advanced fuel injection systems and combustion processes to emission control enhancement. Likewise, the use of low-carbon or zero-carbon fuels, such as Hydrogen or Nanoparticle additive fuels, plays a major role in achieving the emission reduction targets.

Topics of interests for this publication include, but are not limited to:

- Biodiesel, ammonia, hydrogen combustion.
- Spray analysis and mixture formation.
- Advanced combustion concepts.
- CFD approaches to engine modelling.
- Data-driven engine model.
- Innovative design for consumption and emission reduction.
- Innovative solutions for combustion control.
- Advanced ATS architectures.
- Innovative control systems for traditional and electrified powertrains.

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Special Issue

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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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