

## Special Issue

# Smart UAV Machines for Detection and Classification: Advancements and Applications in Renewable Energy Technologies

### Message from the Guest Editors

This special issue, we investigate the synergistic potential of integrating UAV-based technologies with renewable energy systems as functioning machines. We focus on how the utilization of smart UAV machines, coupled with cutting-edge detection and classification capabilities, can contribute to the advancement and application of renewable energy technologies. This research endeavor will entail a comprehensive examination of the following key areas:

- Advancements in smart UAV machine technologies for enhanced detection and classification in renewable energy environments.
- Exploration of novel applications of UAV-based systems in monitoring, maintenance, and optimization of renewable energy infrastructure.
- Investigation of strategies for integrating UAV-based detection and classification capabilities with renewable energy systems to improve efficiency, reliability, and performance.
- Evaluation of the potential economic, environmental, and societal impacts of integrating smart UAV machines with renewable energy technologies.

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### Guest Editors

Dr. Adeel Feroz Mirza

Dr. Majad Mansoor

Prof. Dr. Balal Yousaf

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### Deadline for manuscript submissions

closed (31 January 2026)



## Machines

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
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