

## Special Issue

# Quadrotor UAV with Advanced Applications

### Message from the Guest Editor

In recent years, new applications of quadrotor unmanned aerial vehicles (UAV) have constituted one of the most interesting fields of research due to its vertical take-off and landing capabilities, the simplicity of their construction, and the important technological advances in control, sensing, communication, and energy storage. The unique capabilities of the UAV, including high maneuverability, small size, and being easy to control, enable more and more applications. The major advantage of such vehicles over traditional helicopters is its fixed rotor propulsion mode. In general, its four rotors are aligned such that two rotors on opposite ends rotate in the same direction and the other two in the opposite direction. It is expected that next generation UAVs will be more autonomous, with better intelligence, exquisite functions and advanced performance in every aspect, all enabled by artificial intelligence (AI), advanced sensing devices, modern guidance and control systems, and design techniques. From a methodological perspective, we are interested in works that go beyond traditional approaches.

### Guest Editor

Prof. Dr. Chun-Liang Lin

Department of Electrical Engineering, National Chung Hsing University,  
Taichung 402, Taiwan

### Deadline for manuscript submissions

closed (15 November 2024)



## Inventions

an Open Access Journal  
by MDPI

Impact Factor 1.9  
CiteScore 4.9



[mdpi.com/si/82712](https://mdpi.com/si/82712)

*Inventions*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[inventions@mdpi.com](mailto:inventions@mdpi.com)

[mdpi.com/journal/  
inventions](https://mdpi.com/journal/inventions)





# Inventions

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 4.9



[mdpi.com/journal/  
inventions](https://mdpi.com/journal/inventions)



## About the Journal

### Message from the Editorial Board

The unique journal *Inventions* is different from all other journals. Many scholars spend their lives publishing research papers in many different journals, but most of these journals do not help scholars collate and analyze their results or assist in promoting them to a relevant industry. However, *Inventions* will help authors not only to publish their papers in the journal, but also to promote their research results to industry and assist them in realizing the purpose of technology transfer. In the future, *Inventions* will help authors to evaluate their technology license fees based on the valuation theory and approaches and also help authors to show their patents and technologies on a network transaction platform.

---

### Editors-in-Chief

Prof. Dr. Chien-Hung Liu

Department of Mechanical Engineering, National Chung Hsing University, 250 Kuo Kuang Rd., Taichung 402, Taiwan

Prof. Dr. Shouu-Jinn Chang

Department of Electrical Engineering, National Cheng Kung University, Tainan 701, Taiwan

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, Ei Compendex and other databases.

#### Journal Rank:

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

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).