

## Special Issue

# Advances and Innovations in Drone Technology for Mining and Construction Applications

### Message from the Guest Editors

We invite submissions for this Special Issue exploring the latest advancements in and practical applications of drones (UAVs) to address critical challenges in these dynamic sectors, including the following:

- Terrain modeling, stockpile volumetrics, and real-time progress monitoring.
- Remote inspections of hazardous sites (e.g., unstable slopes, highwalls) to reduce human risk.
- Autonomous flight, predictive analytics, and automated defect detection using aerial data.
- The monitoring of rehabilitation, erosion, and biodiversity impacts.
- Coordination with the IoT, robotics, and digital twins for workflow optimization.

This Special Issue invites researchers and industry professionals to share their insights, case studies, and innovations, fostering a deeper understanding of how drone technology is shaping the future of mining and construction. We welcome original research, reviews, and technical reports that highlight both challenges and breakthroughs in this rapidly advancing field.

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### Guest Editors

Dr. Yewuhalashet Fissha

Dr. Hajime Ikeda

Dr. Natsuo Okada

Dr. Abhishek Kumar Tripathi

Dr. Debashish Chakravarty

Dr. Muhammad Zaka Emad

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### Deadline for manuscript submissions

31 August 2026



## Drones

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## About the Journal

### Message from the Editor-in-Chief

*Drones* is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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### Editor-in-Chief

Prof. Dr. Diego González-Aguilera

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