

Special Issue on Low-altitude Economy: Technologies, Infrastructure, and Applications

Call for Papers

Low-altitude economy, characterized by the integrated development of unmanned aerial systems, airspace utilization, intelligent infrastructure, and digital technologies, has emerged as a strategic frontier for fostering new economic growth. With the rapid advancement of artificial intelligence, communication networks, remote sensing, and autonomous systems, low-altitude activities are evolving toward large-scale, intelligent, and safe operations. However, the development of the low-altitude economy still faces critical challenges, including efficient airspace management, intelligent route planning, real-time perception and supervision, digital infrastructure construction, and data security governance. Addressing these challenges requires interdisciplinary innovations spanning geomatics, computer science, communication engineering, and aviation technologies. This Special Issue aims to bring together cutting-edge research and practical advancements in the field of low-altitude economy. It focuses on both theoretical developments and real-world applications, promoting the integration of technologies and fostering sustainable and secure development of low-altitude systems.

Scope:

- Low-altitude route intelligent planning and positioning
- Low-altitude intelligent digital infrastructure
- Low-altitude target detection and safety supervision
- Low-altitude real-scene 3D modeling
- Low-altitude unmanned systems (UAVs, autonomous aerial platforms)
- Low-altitude flight simulation and modeling
- Application scenarios of low-altitude economy (e.g., logistics, urban mobility, emergency response)

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Journal website: <http://myukk.org/>

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Interests: Geodesy, Surveying, HD map, Indoor modeling and location

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Interests: 3D reconstruction, Photogrammetry, Remote sensing, 3D vision, Deep learning

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2. Email to MYU K.K. (myukk@myu-inc.jp)

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If you have any questions, please feel free to contact the editorial staff at the address below.

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