

Special Issue

Low-Altitude Mobility and Foundation Models in 3D Intelligent Transportation Systems

Message from the Guest Editor

- With the rapid advancement of unmanned aerial vehicles (UAVs) and passenger air mobility, intelligent transportation systems (ITS) are evolving into integrated, multidimensional networks that greatly expand the scope of future mobility. This emerging paradigm of air-ground cooperative transportation offers exciting opportunities, but also presents significant challenges in traffic management, safety, and operational efficiency. Achieving seamless interaction between manned and unmanned vehicles calls for advanced intelligence in perception, planning, and coordination.
- Artificial intelligence, particularly foundation models (FMs), is expected to play a transformative role in addressing these challenges. By enabling large-scale perception, adaptive control, autonomous planning, and collaborative decision-making, foundation models can act as a unifying framework for integrating low-altitude and ground transportation systems. This Special Issue seeks innovative contributions that demonstrate how FM-driven approaches and low-altitude systems can advance the development of safe, efficient, and sustainable 3D intelligent transportation

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