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Urban Air Mobility

Intelligent, Safe and Sustainable Systems for Future Transportation

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Description:

In recent years, the growth of the world's urban population has increased tremendously, and it is predicted that by 2040, 70% of the world population will be living in an urban setting. Existing ground transportation will be unable to cope with such an expansion, especially as congestion and over crowding becomes more common. An answer may be found with the advent of recent technologies such as urban air mobility, which may play a vital role in providing solutions for public transportation. The impact of modelling, analysis and application of intelligent algorithms is very much at the core of the design and implementation of Urban Air Mobility.

This book provides a resource for young engineers and researchers to understand state-of-the-art technologies through showcasing intelligent, safe and sustainable systems for urban air mobility. The various chapters are configured to address the challenges in modelling, analysis, navigation, traffic control, battery efficiency, safety and security in terms of Artificial intelligence techniques.

Keywords: Urban Air Mobility, DLN, DQN, Control systems, Unmanned Aerial Vehicle, Deep Learning models, PID, FOPID, Navigation control law, Traffic control law, power control system, energy efficient batteries, security mechanisms.

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