



Autonomous Freight Transportation and Drone Delivery

■ Goals

The logistics and delivery sector is grappling with challenges including soaring transportation expenses, meeting customer expectations, and environmental impacts. Yet, the integration of drone and autonomous vehicle technology offers a promising solution. By leveraging these innovations, transportation costs can be slashed, delivery speed and reliability heightened, and operational efficiency improved, paving the way for a more sustainable and effective industry.

■ Requirements

You should understand *Automatic control*, *Machine Learning*, *Automotive*.

Bibliography

- [1] Ian Nurgaliev, Youssef Eskander, and Karolina Lis, The Use of Drones and Autonomous Vehicles in Logistics and Delivery, Logistics and Transport No 1-2(57-58), pp. 77-92, 2023. <https://doi.org/10.26411/83-1734-2015-2-55-6-23>.
- [2] Clément Lemardelé, Miquel Estrada, Laia Pagès, Mónica Bachofner, Potentialities of drones and ground autonomous delivery devices for last-mile logistics, Transportation Research Part E: Logistics and Transportation Review, Volume 149, 2021. <https://doi.org/10.1016/j.tre.2021.102325>.

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