Autonomous Vehicle for Logistics and Delivery Services

Application
To facilitate the contact-less freight transportation in the post COVID-19 world, an autonomous logistic vehicle is developed to reduce direct human contacts, delivery time and freight costs; improve fuel efficiency and truck utilization.
Global self-driving truck market is expected to reach USD$1,699 million by 2025.¹

Technology
The autonomous vehicle is composed of hardware and software systems including sensors, cloud server modules and algorithms to achieve autonomous navigation with a dynamics-based Model Predictive Controller (MPC).

Advantages
- On road running distance > 2,500km without any incidents
- Total avoided contacts > 67,600
- Granted a stage 0 moving permit from Hong Kong Transport Department (HKTD), ready to get another permit in a month
- Achieved level 4 autonomy

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Intellectual Properties
Chinese Patent Applied, 202010104509.6 & 201810029397.5