

Research and application of deep learning for traffic vehicle classification

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Abstract: In practice, accurate classification of vehicles plays an important role in many applications such as traffic management, public security, and driver assistance. This topic focuses on researching and implementing a deep learning-based system to solve the multi-class classification problem of vehicles from images. The approach combines theory with experimentation, aiming to build a system with high accuracy and wide applicability. The expected results of this topic not only contribute to the research field but also bring practical benefits in modern traffic environments.

Keywords: Deep learning, Traffic vehicle classification, Images, Traffic order management