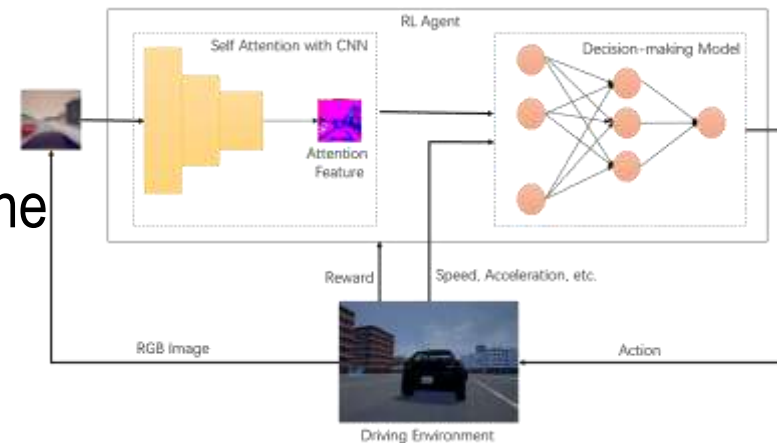


# Towards Autonomous Driving Decision by Combining Self-attention and Deep Reinforcement Learning

Meiling Chen, Yanjie Li, Qi Liu, Shaohua Lv,  
Yunhong Xu, Yuecheng Liu

Department of Control Science and Engineering,  
Harbin Institute of Technology (Shenzhen), Shenzhen

- We proposed an framework based on self-attention model and DRL for autonomous driving.
- We used the self-attention model to reduce the dimension of image.
- we used DDPG algorithm to complete the autonomous driving task.
- The results show that the proposed framework performs better than existing methods.



Framework overview  
of the system.