

Classification of Motion Prediction methods in Autonomous Driving

Input

Contextual Factors

Physics-related factors

Road-related factors

Interaction-related factors

Output

Output types

Unimodal prediction

Multimodal prediction

Intention

Physics-based

Single Trajectory

Kalman Filter

Monte Carlo

Classic ML-based

Gaussian Process

Support Vector Machine

Hidden Markov Model

Dynamic Bayesian Network

RL-based

IRL

GAIL

DIRL

DL-based

RNNs / CNNs

GANs

Attention

GNNS