

Marking Criteria: Road Trajectory Prediction

The competition will be evaluated based on the following detailed scoring criteria. Each team must submit a 20-page limit report summarizing their model and methodology, explaining the application scenarios and potential impact of the prediction results. All aspects of submission count toward the 20-page limit (Summary Sheet, Table of Contents, Reference List, and any Appendices)

Data Processing	<ul style="list-style-type: none">• Integrate historical GPS trajectory data• Integrate external data sources such as road networks, traffic conditions, etc.• Encode time, latitude, and longitude accurately• Ensure consistency and correctness of encoded data	20%
Feature Engineering	<ul style="list-style-type: none">• Extract temporal features (e.g., hour of the day, day of the week, holidays)• Extract spatial features (e.g., road network)• Select and optimize features to improve model performance• Justify the chosen features and their impact on the model	10%
Model Development and Evaluation	<ul style="list-style-type: none">• Choose appropriate machine learning or deep learning models• Train the model using the training set• Fine-tune hyperparameters to improve accuracy• Validate the model using the validation set• Evaluate performance and make necessary adjustments• Evaluate the final performance of the model using the test set• Compute and report evaluation metrics	30%
Innovation and Creativity	<ul style="list-style-type: none">• Use of novel approaches or techniques to enhance prediction accuracy	20%
Report Quality	<ul style="list-style-type: none">• Clarity and comprehensiveness of the one-page report summarizing the model and methodology• Explanation of application scenarios and potential impact of the prediction results	20%