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Comparative Analysis of Neural Network-Based Techniques for Vehicular Location Prediction

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Abstract

Vedicular location prediction is crucial for improving Quality of Service (QSS) in fills-generators (SS) and Resource Qualitation (RA). This subsy presents anovel comparison for low-beam (seconds (NA) model—Second (SA)), Long Short (Ma), and the present and comparison for low-beam (seconds (NA)) and Short (MBP)—in predicting while producing while a dataset of velocitie mobility traces from Socal, Soch Korea. The models is assessed using metrics such as of corficient of determination (R² socs), Rook Man Square Brown (SMSE), loss over expents, and execution time per spech, but of the models treated, the MLP model showed the best performance, with an MSRE of 0.42 meter and nR² socs or (1999) 272. Since species as 22% decrease in MSRE or compared to Court De and the recorner models and a significantly higher R² socs. Moreover, MLP demonstrated the most rapid courterpoint and the shortest surroger execution time conflictive for this perforded text. This provides valuable information for designing processive Res Antengées in SG networks.

Index Terms

Prediction, Vehicular Mobility, Proactive Mobility Prediction, 5G, Handover Management, Radio Resource Managemen Neural Networks