**2.DNN-Assisted Cooperative Localization in Vehicular Networks**

**Objective**: The objective is to propose a deep learning based technique using DNN which enhances localization with lower computational complexity in vehicular networks.

**Key Contributions:**

Integrates DNN into the geometric measurement handling the iterative message-passing algorithm to reduce nonlinearities in the localization process.

The proposed neural network has three hidden layers, and dropout or regularization techniques may be used to avoid overfitting.

Simulation results present an improvement in the localization accuracy and efficiency compared to state-of-the-art algorithms, like SPAWN and multilateration.

**Conclusion:** The DNN-assisted approach augments the performance of cooperative localization in vehicular networks for real-time applications, especially in the light of autonomous driving.