

Klasifikasi Suara Kemacetan Menggunakan Deep Learning dengan Metode Recurrent Neural Network

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Abstract

The case or phenomenon of traffic jams is a problem that is often faced in various big cities throughout the world, including in Indonesia. This congestion phenomenon has quite a significant impact, both for society and for the government and related stakeholders. According to the latest research results from the Institute for Transportation and Development Policy (ITDP), every year every citizen living in Jakarta and its surroundings spends 400 hours just returning from home to the office. In this research, traffic jam sound classification was carried out using the Recurrent Neural Network method. This method obtained a precision value of 0.8527, recall 0.8515, accuracy 0.9166, and f1-score 0.8500 in the tanh+tanh+sigmoid scenario with a dropout of 0.5 and an epoch value of 15.

Keywords: classification, broadcast congestion, Recurrent Neural Network, accuracy.
