

## **Prediksi Retweet Berdasarkan Fitur User-based dan Content-Based Menggunakan Artificial Neural Network Dioptimasi Dengan Metode Harmony Search**

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### **Abstract**

Online social networking services allow their users to post content in the form of text, images or videos. Twitter is a microblogging social networking service that enables its users to send and read text-based messages of up to 140 characters. Retweet is one of the features in twitter that is important in disseminating information, popular tweets reflect the latest trends on twitter, the main mechanism that drives information dissemination is the possibility for users to re-share content posted by their social connections, then it can flow throughout the system. Retweets happen when someone republishes or forwards a post to their homepage and personal profile. Most retweets are credited to the original author of the original post. The retweet prediction system uses an Artificial neural network optimized for Harmony search with tweets about the Jakarta-Bandung Fast Train, which shows the best results when the oversampling method has been carried out with an f1-score of 96.8%.

**Keywords:** prediction, *retweet*, *artificial neural network*, *harmony search*, *oversampling*.