

Abstrac

Birds have an important role in the life cycle, most of which is active during the day. Owls are a type of bird that is active at night. Owls play an important role in agriculture by repelling pests. Despite much research on owls, many aspects of owl biology, evolutionary history, and taxonomy remain poorly known. This research was conducted to recognize the sound of owls and use the Convolutional Neural Network (CNN) to classify them based on their genus. Trimming and noise reduction are carried out to help produce a system with optimal performance. System testing is carried out with scenarios looking for epoch values, learning rate, and optimizer with the best accuracy. Performance evaluation is carried out using the best hyperparameters that have been obtained. The results of the test obtained an accuracy of 99.8%.

Keywords: *audio processing, CNN, sound classification.*