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(57) Abstract :
In this patent new bird species are found rarely and even if they are found their classification prediction is very difficult. Naturally, birds are present in various scenarios appearing in different size, shape, color, and angle from human perspective. Besides, the images present strong variations to identify the bird species as compared to audio classification. Also, the human ability to recognize the birds through the images is more understandable. So this method uses the Caltech-UCSD Birds 200 [CUB-200-2011] dataset for training as well as testing purpose. By using deep convolutional neural network (DCNN) algorithm an image converted into grey scale format to generate autograph by using tensor flow, where the multiple nodes of comparison are generated. These different nodes are compared with the testing dataset and score sheet is obtained from it. After analyzing the score sheet it can predicate the required bird species by using highest score.

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