Abstract

Shallot is one type of horticultural plant that has many benefits, but the weather greatly influences its quality and quantity. Weather changes will cause production to be erratic so that prices fluctuate. Price forecast for weather is essential to make it easier for farmers to plant at the right time. Therefore, this study predicts the price of shallots in Bandung Regency based on the influence of weather using hybridization from Classification and regression tree (CART) and Artificial Neural Network (ANN).
Based on several test scenarios in this study, the CART-ANN hybridization method proved to provide better results than conventional CART or ANN with the values of precision, recall, and accuracy contributing respectively 90.91%, 100.00%, 93.33%.

Keywords: Shallot, Classification and Regression Tree, Artificial Neural Network