

ESTIMATION OF SHRIMP FARMING PRODUCTION IN BANYUWANGI, EAST JAVA USING GRADIENT DESCENT MOMENTUM METHOD

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ABSTRACT

Estimation of shrimp farming production in district area have been developed to successful in consistently predicting the performance of the farmers. The complex set of problem processes within shrimp farming have made the development of analytical models to be a significant challenge. Advanced simulation tools are needed to become more accurately model shrimp farming production systems. As an alternative approach, we have begun development of shrimp farming production modeling based on Gradient Descent Momentum which uses Matlab 7.6.0(R2008b). A neural network based learning system method has been proposed for estimation of shrimp farming production. Gradient Descent Momentum based technique is used for learning shrimp farming production. Thus a precision model of Gradient Descent Momentum has been evaluated. The precise of the Gradient Descent Momentum model has error less than 0.301 percent.

Keywords: estimation, gradient descent momentum, learning, neural network.