

Abstract:

This paper focuses on a proposed Maximum Power Point Tracking (MPPT) methodology based on artificial neural network (ANN) scheme. The proposed MPPT strategy uses an ANN as a controller that provides optimum wind-energy acquisition in variable speed case. The ANN training is done according to the data possession obtained by the different equations establishing the model of the wind turbine in the optimal case. The effectiveness of the proposed approach is verified by simulation on a wind turbine system.