

## عنوان مقاله:

Fully Connected Recurrent Neural Network MPPT Control Design For DFIG Wind Energy Conversion Systems

## محل انتشار:

اولین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مهندسی برق و کامپیوتر (سال: 1395)

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## خلاصه مقاله:

This paper is proposing a new maximum-power-point-tracking (MPPT) control design based on recurrent neural networks with real-time recurrent learning (RTRL) algorithm for getting optimal efficiency from doubly-fed-induction-generator (DFIG) wind energy conversion systems. Chosen Recurrent neural network (RNN) is a fully connected RNN with RTRL unsupervised learning algorithm. The inputs to the network are the rotor speed and wind-turbine torque, and the output is the rotor speed command signal for the wind turbine. Simulation results verify the performance of the proposed algorithm. Keywords— maximum power point tracking ,doubly-fed induction generator, recurrent neural network, real-time recurrent

## کلمات کلیدی:

maximum power point tracking ,doubly-fed induction generator, recurrent neural network, real-time recurrent learning, wind energy conversion system

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/497398>

