

## عنوان مقاله:

Low-Voltage Ride-Through Capability Improvement of DFIG-Based Wind Turbines

## محل انتشار:

چهارمین کنفرانس ملی ایده های نو در مهندسی برق (سال: 1394)

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## خلاصه مقاله:

Since the usage of wind energy as a renewable energy source is increasing fast, there is a need to keep wind turbines connected to the grid during different grid faults. In this paper, a simple way for improving low voltage ride-through (LVRT) capability of variable speed wind turbines (WTs) equipped with a doubly fed induction generator (DFIG) is presented. To highlight the proposed technique, a doubly fed induction generator (DFIG) is considered as a wind turbine generator. The whole system is simulated in Simulink/ matlab software. The obtained results ensure that this way is effective in decreasing the fault currents and DC link voltage fluctuations. The voltage dip characteristics are discussed in accordance with international standards for wind turbines.

## کلمات کلیدی:

DC-link voltage, doubly fed induction generator (DFIG), low voltage ride through (LVRT), wind turbine

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/533681>

