

عنوان مقاله:

A Test Bench for Wind Turbine Control System

محل انتشار:

بیست و هشتمین کنفرانس بین المللی برق (سال: 1392)

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خلاصه مقاله:

Development of a wind turbine test bench consisting of a wind turbine simulator and the actual control system is addressed in this paper. The simulated turbine model runs on an XPC target platform and the control system and the complete supervisory system are implemented on an embedded PC. The test bench is intended for testing the supervisory system and the control algorithms in real-time mode. The presented test bench makes it possible to test the control algorithms under hardware limitations of the hardware which it is implemented on. The test bench is used to test the pitch control, torque control and supervisory system designed for a 2MW onshore wind turbine

کلمات کلیدی:

Wind turbine, test bench, EtherCAT, HMI

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