

## **CORRECTION OF THE MECHANICAL SPEED FOR THE DFIG WIND TURBINE**

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### **ABSTRACT**

A wind's turbine role is to convert the kinetic energy of wind into energy electric. Its components are designed to maximize the conversion. Different control structures have been developed according to the characteristic power speed. In our case, we propose the control strategy of the wind turbine to maximize power with control of the speed. This control strategy consists in determining the speed of the turbine which provides the maximum generated power.

**KEYWORDS:** Wind, Turbine, DFIG, Control, PI