

## Comparison between Classical and New Direct Torque Control Strategies of Induction Machine

**Authors :** Mouna Essaadi, Mohamed Khafallah, Abdallah Saad, Hamid Chaikhy

**Abstract :** This paper presents a comparative analysis between conventional direct torque control (C\_DTC), Modified direct torque control (M\_DTC) and twelve sectors direct torque control (12\_DTC). Those different strategies are compared by simulation in term of torque, flux and stator current performances. Finally, a summary of the comparative analysis is presented.

**Keywords :** C\_DTC, M\_DTC, 12\_DTC, torque dynamic, stator current, flux, performances

**Conference Title :** ICECECE 2014 : International Conference on Electrical, Computer, Electronics and Communication Engineering

**Conference Location :** Paris, France

**Conference Dates :** November 21-22, 2014