

*induction motor, Direct Torque Control,  
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## **CONTROL OF THE DTC-FSVM BASED INDUCTION MOTOR DRIVE IN A WIDE SPEED RANGE**

In this paper the direct flux and torque control structure based on Flux-error Space Vector Modulation (DTC-FSVM) has been analyzed and compared to a classical DTC-SVM system. The control structures have been tested in a wide speed range including field weakening algorithm based on the voltage and current limits of the voltage inverter and the induction motor. The proposed control strategies are verified through simulation with a 3 kW induction motor drive.

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