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International Journal of Computer Applications  
© 2011 by IJCA Journal

Volume 35 - Number 5

Year of Publication: 2011

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10.5120/4401-6112

{bibtex}pxc3976112.bib{/bibtex}

**Abstract**

This paper presents a contribution for detailed comparison between two control strategies for Induction Machine (IM) drives: Direct Field-Oriented control (DFOC) and Direct Torque Control (DTC). The performances of those two control schemes are evaluated and compared by simulation in terms of torque and current ripples, transient response and sensitivity to machine

parameters.

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### Index Terms

Computer Science

Control Systems

**Keywords**

DFOC

DTC

Steady-state performance

Transient performance

Parameter sensitivity