

Scheduled Maintenance: On Saturday, 16 March 2024, IEEE Xplore will undergo necessary technical work from 9:00 AM EDT (1300 UTC) to 2:00 PM EDT (1800 UTC) to improve system reliability and stability. During this time, the site will be unavailable. We apologize for any inconvenience.

IEEE.org | IEEE Xplore | IEEE SA | IEEE Spectrum | More Sites | Donate | Cart | Create Account | Personal Sign In



Browse | My Settings | Help

Access provided by: Vignan Institute of Technology & Science

Sign Out

Access provided by: Vignan Institute of Technology & Science

Sign Out

All



ADVANCED SEARCH

Conferences > 2016 International Conference... ?

Multi level inverter fed indirect vector control of induction motor using type 2 fuzzy logic controller

Publisher: IEEE

Cite This

PDF

D. Giribabu ; R. Harsha Vardhan ; R. Ramanjan Prasad All Authors



6 Cites in Papers

221 Full Text Views

Alerts

Manage Content Alerts
Add to Citation Alerts

Abstract

Authors

Citations

Keywords

Metrics

More Like This



Downl
PDF

Abstract:The paper presents an indirect vector control of induction motor fed by three-level diode clamped inverter and is implemented using fuzzy logic speed control system based... **View more**

Metadata

Abstract:

The paper presents an indirect vector control of induction motor fed by three-level diode clamped inverter and is implemented using fuzzy logic speed control system based on fuzzy logic approach at different operating conditions to obtain improved performance. The analysis, design and simulation using MATLAB for indirect vector control of induction motor are carried out based on fuzzy set theory. The PI controllers in the IVC are replaced with T2FLC. Space vector pulse width modulation is used to obtain gate switching pulses for induction motor. The speed response of induction motor drive using T2FLC shows faster and better response.

Published in: 2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT)

Date of Conference: 03-05 March 2016

DOI: 10.1109/ICEEOT.2016.7755164

Date Added to IEEE Xplore: 24 November 2016

Publisher: IEEE

ISBN Information:

Conference Location: Chennai, India



Authors	▼
Citations	▼
Keywords	▼
Metrics	▼

More Like This

Comments on "A Performance Investigation of a Four-Switch Three-Phase Inverter-Fed IM Drives at Low Speeds Using Fuzzy Logic and PI Controllers"
IEEE Transactions on Power Electronics
Published: 2018

Rotor flux based MRAS for sensorless operation of three level inverter fed induction motor
2012 IEEE Students' Conference on Electrical, Electronics and Computer Science
Published: 2012

Show More