

Dr. Bindu V



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Experience : 20 yrs in teaching

Qualification

B Tech	Electrical & Electronics Engineering	Regional Engineering College, Calicut, in 1995
M Tech	Energetics	Regional Engineering College, Calicut, in 2000
Ph D	Soft computing techniques for Vector control of Drives	Cochin University of Science & Technology, in 2013

Subjects handled

Control systems, Electrical Machines, Power Electronics, Power Systems, Circuits and Networks and Basic Electrical Engineering

Professional bodies

1. Memeber IEEE Society
2. Memeber IEEE Power & Engineering Society
3. Life Memeber ISSE (Indian Society of systems for Science & Engineering)
4. Governing Body member of APJ Abdul Kalam Kerala Technological University]
5. Senate member of Cochin University of Science & Technology

Research Interests:

Soft computing techniques

Vector control of Drives

Estimation algorithms

Publications

1) Sensor less Vector control of PMSM using a blind system identification approach based on extended kalman filter algorithm, Bindu V , A Unnikrishnan , R Gopikakumari ,2010 *IEEE International Conference on Computational Intelligence and Computing Research*

- 2) A Robust Kalman Filter Based Sensorless Vector Control of PMSM with LMS Fuzzy Technique, Bindu V , A Unnikrishnan , R Gopikakumari , *international Journal of Modern Engineering Research (IJMER)*, Vol.1, Issue1, pp-151-156, ISSN: 2249-6645
- 3) Fuzzy logic vector control of PMSM with speed and rotor position estimation using a blind technique based on Extended Kalman Filter, , *International journal on Applied Engineering Research IJAER Vol6, No.7, 2011 pages 967-977* .
- 4) Fuzzy Logic Vector Control of PMSM with Fuzzy Kalman Filter for the Estimation of Speed and Rotor Position, Bindu V , A Unnikrishnan , R Gopikakumari , *Int. J. on Recent Trends in Engineering & Technology, Vol. 05, No. 02, Mar 2011*
- 5) Adaptive Gaussian membership function fuzzy logic vector control of Permanent magnet Synchronous motor with a Robust Extended Kalman Filter , *Hybrid Intelligent systems 2011 11th International conference*
- 6) Adaptive Fuzzy Logic Vector Control of Permanent Magnet Synchronous Motor with a Robust Extended Kalman Filter, Bindu V. , A. Unnikrishnan and R. Gopikakumari , *International Journal of Industrial Electronics and Control*. ISSN 0974-2220 Volume 3, Number 2 (2011), pp. 73-82
- 7) A blind estimation of speed and rotor position of permanent magnet synchronous motor from the measurements of stator currents using Extended Kalman filter , [V. Bindu](#), [A. Unnikrishnan](#), [R. Gopikakumari](#), *International Journal of Power Electronics IJPELEC.2013.055659*
- 8) Kalman filter based Estimation of speed and rotor position of permanent magnet synchronous motor, V. Bindu, A Unnikrishnan, R Gopikakumari, *The proceedings of National Conference on Recent Innovations in Technology NCRIT 2010 4-6 March 2010 RIT Kottayam*.
9. V Bindu, A Unnikrishnan and R Gopikakumari, "Adaptive fuzzy logic position control of a Stepper motor with Extended Kalman Filter", *Power Signals Controls and Computation (EPSCICON) 2012 International Conference on*, pp. 1-6, 2012.