

Dr. Munaf Salim Najmuldeen

Assistant Professor

Electrical and Computer Engineering College of Engineering and Architecture University of Nizwa, Sultanate of Oman

Telephone: (+968)25446200

Extension: 769

eMail: munaf@unizwa.edu.om

Office Location: 27-9..

Fax: (+968)25446245

Time at UoN: Since 2013

Marital Status: Married.

Faculty CV-ABET-Munaf.pdf

Academic Qualifications

Ph.D., University of Technology - Iraq, 1998

B.Sc., University of Technology - Iraq, 1986

Research Activities

- Research Interests

Robotics and autonomous vehicles

Driving Behavior Analysis

Machine and Deep Learning

- Publications

Article:

- 1. 2018 <u>Driver Behavior Detection Techniques: A survey</u>, International Journal of Applied Engineering Research
- 2. 2017 Reactive Mobile Robot Navigation Using Fuzzy Controller, 7th National Symposium on Engineering Final Year Projects
- 3. 2017 Design of a Tele-Operated Mobile Robot for Rough Terrain, 7th National Symposium on Engineering Final Year Projects
- 4. 2017 Construction of a Low-Cost Tele-Operated Mobile Manipulator, 7th National Symposium on Engineering Final Year Projects
- 5. 2015 <u>Prediction and Measurement of Surface Mounted Permanent Magnet Motor</u> <u>Performance with Soft Magnetic Composite and Laminated Steel Stator Cores</u>, WSEAS TRANSACTIONS on CIRCUITS and SYSTEMS
- 6. 2015 Vehicle Tracking and Accident Warning System, 5th National Symposium on Engineering Final Year Projects
- 7. 2015 Visually Guided Mobile Robot, 5th National Symposium on Engineering Final Year Projects
- 8. 2014 <u>EFFICIENCY OPTIMIZATION OF AN OPENLOOP CONTROLLED PERMANENT MAGNET SYNCHRONOUS MOTOR DRIVE USING ADAPTIVE NEURAL NETWORKS</u>, European Scientific Journal, ESJ
- 9. 2013 <u>Finite Element Analysis of an Outer Rotor Permanent Magnet Brushless DC</u>
 <u>Generator</u>, International Journal of Electrical Engineering
- 10. 2013 <u>Driving Styles Recognition Using Decomposed Fuzzy Logic System</u>, Proc.(IJEECS) International Journal of Electrical, Electronics and Computer Systems
- 11. 2012 <u>Decomposed fuzzy controller for reactive mobile robot navigation</u>, International Journal of Soft Computing and Engineering
- 12. 2012 <u>he Use of ZigBee Wireless Network for Monitoring and Controlling Greenhouse</u>

 <u>Climate</u>, International Journal of Engineering and Advanced Technology
- 13. 2012 <u>Driving style recognition using fuzzy logic</u>, Vehicular Electronics and Safety (ICVES), 2012 IEEE International Conference on
- 14. 2011 Rotor Position Detection and Control for Spindle Brushless DC Motors Using Dummy Windings, Artificial Intelligence and Applications, Modelling, Identification, and Control (AIA,MIC 2011)

- 15. 2011 Real-time efficiency optimisation of open-loop controlled synchronous PM motor drive using Adaptive Neural Networks, International Conference on Computer as a Tool (EUROCON), 2011
- 16. 2010 Computation of Magnetic Losses in Canned High-Field PMSM Using Finite Element Method, European Journal of Scientific Research
- 17. 2009 A neuro-fuzzy reasoning system for mobile robot navigation, JJMIE
- 18. 2008 Cache Replacement Policy Based on Fuzzy Decision System, 8th Middle Eastern Symposium on SIM, MEMS`2008
- 19. 2008 <u>Stable and Highly Efficient Operation of Open-Loop Controlled PM Synchronous</u>
 <u>Motor Drive</u>, Stable and Highly Efficient Operation of Open-Loop Controlled PM Synchronous
 Motor Drive
- 20. 2007 Hybrid Neuro-Fuzzy System for Mobile Robot reactive Navigation, The Industrial Simulation Conference, ISC 2007
- 21. 2006 A Weighted Fuzzy System for Autonomous Mobile Robot Navigation, The 12th International Conference on Machine Design and production
- 22. 2003 The Use of a Decomposed Fuzzy System for Autonomous Mobile Robot Navigation, The Use of a Decomposed Fuzzy System for Autonomous Mobile Robot Navigation
- 23. 2003 A Neuro-Fuzzy Reasoning System for Mobile Robot Navigation, A Neuro-Fuzzy Reasoning System for Mobile Robot Navigation
- 24. 2001 A Novel Fuzzy Like PI Controller, First International Industrial Engineering Conference, IIEC-2001
- 25. 2000 Speed Control of Induction Motor Using PWM Technique and Series Reactor, Speed Control of Induction Motor Using PWM Technique and Series Reactor
- 26. 1997 The Use of Low Loss Low Permeability Materials in the Design of High Speed Permanent Magnet Motors, 2nd Conf. On Computation Aspect and Their Applications in Electrical Engineering (CATAEE-97)
- 27. 1997 Computer Aided Analysis of High Speed Permanent Magnet Synchronous Motors, 2nd Conf. On Computation Aspect and Their Applications in Electrical Engineering (CATAEE-97)
- 28. 1997 A new method to compute eddy current losses by the finite elements method, Industry Applications Conference, 1997. Thirty-Second IAS Annual Meeting, IAS`97., Conference Record of the 1997 IEEE

- 29. 1992 <u>Use of canned rotors in high-field permanent magnet machines</u>, IEE Proceedings B (Electric Power Applications)
- 30. 1991 <u>The use of canned rotors in high speed permanent magnet machines</u>, Fifth International Conference on Electrical Machines and Drives

Membership in Professional Bodies

2006-Present: Iraq ICT Alliance

1988-Present: IEEE

1986-Present: Iraqi Society for Engineers

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Ref.: https://www.unizwa.edu.om/staff/cea/munaf