Dr. Munaf Salim Najmuldeen

Assistant Professor

Electrical and Computer Engineering

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Time at UoN: Since 2013

Marital Status: Married.

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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 Driver Behavior Detection Techniques: A survey, 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 Prediction and Measurement of Surface Mounted Permanent Magnet Motor Performance with Soft Magnetic Composite and Laminated Steel Stator Cores, 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 EFFICIENCY OPTIMIZATION OF AN OPENLOOP CONTROLLED PERMANENT MAGNET SYNCHRONOUS MOTOR DRIVE USING ADAPTIVE NEURAL NETWORKS, European Scientific Journal, ESJ

9. 2013 Finite Element Analysis of an Outer Rotor Permanent Magnet Brushless DC Generator, International Journal of Electrical Engineering

10. 2013 Driving Styles Recognition Using Decomposed Fuzzy Logic System, Proc.(IJEECS) International Journal of Electrical, Electronics and Computer Systems

11. 2012 Decomposed fuzzy controller for reactive mobile robot navigation, International Journal of Soft Computing and Engineering

12. 2012 he Use of ZigBee Wireless Network for Monitoring and Controlling Greenhouse Climate, International Journal of Engineering and Advanced Technology

13. 2012 Driving style recognition using fuzzy logic, 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 Stable and Highly Efficient Operation of Open-Loop Controlled PM Synchronous Motor Drive, 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 Use of canned rotors in high-field permanent magnet machines, IEE Proceedings B (Electric Power Applications)

30. 1991 The use of canned rotors in high speed permanent magnet machines, 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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