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## المؤهلات الأكademية

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

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

## الأنشطة البحثية

الاهتمامات البحثية -

Robotics and autonomous vehicles

Driving Behavior Analysis

Machine and Deep Learning

## المنشورات -

مقالات:

- [Driver Behavior Detection Techniques: A survey](#), International Journal of Applied Engineering Research 2018 .1
- Reactive Mobile Robot Navigation Using Fuzzy Controller, 7th National Symposium on 2017 .2  
Engineering Final Year Projects
- Design of a Tele-Operated Mobile Robot for Rough Terrain, 7th National Symposium on 2017 .3  
Engineering Final Year Projects
- Construction of a Low-Cost Tele-Operated Mobile Manipulator, 7th National Symposium 2017 .4  
on Engineering Final Year Projects
- [Prediction and Measurement of Surface Mounted Permanent Magnet Motor Performance with Soft Magnetic Composite and Laminated Steel Stator Cores](#) 2015 .5  
WSEAS TRANSACTIONS on CIRCUITS and SYSTEMS
- Vehicle Tracking and Accident Warning System, 5th National Symposium on Engineering 2015 .6  
Final Year Projects
- Visually Guided Mobile Robot, 5th National Symposium on Engineering Final Year Projects 2015 .7
- [EFFICIENCY OPTIMIZATION OF AN OPENLOOP CONTROLLED PERMANENT MAGNET SYNCHRONOUS MOTOR DRIVE USING ADAPTIVE NEURAL NETWORKS](#) 2014 .8  
European Scientific Journal, ESJ
- [Finite Element Analysis of an Outer Rotor Permanent Magnet Brushless DC Generator](#), 2013 .9  
International Journal of Electrical Engineering
- [Driving Styles Recognition Using Decomposed Fuzzy Logic System](#), Proc.(IJEECS) 2013 .10  
International Journal of Electrical, Electronics and Computer Systems
- [Decomposed fuzzy controller for reactive mobile robot navigation](#), International Journal of Soft Computing and Engineering 2012 .11
- [The Use of ZigBee Wireless Network for Monitoring and Controlling Greenhouse Climate](#), 2012 .12  
International Journal of Engineering and Advanced Technology
- [Driving style recognition using fuzzy logic](#), Vehicular Electronics and Safety (ICVES), 2012 .13  
2012 IEEE International Conference on
- Rotor Position Detection and Control for Spindle Brushless DC Motors Using Dummy Windings, Artificial Intelligence and Applications, Modelling, Identification, and Control (AIA,MIC (2011)
- [Real-time efficiency optimisation of open-loop controlled synchronous PM motor drive using Adaptive Neural Networks](#) 2011 .15  
International Conference on Computer as a Tool (EUROCON), 2011
- Computation of Magnetic Losses in Canned High-Field PMSM Using Finite Element Method, European Journal of Scientific Research 2010 .16
- [A neuro-fuzzy reasoning system for mobile robot navigation](#), JJMIE 2009 .17
- Cache Replacement Policy Based on Fuzzy Decision System, 8th Middle Eastern Symposium on SIM, MEMS`2008 2008 .18
- [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 2008 .19
- Hybrid Neuro-Fuzzy System for Mobile Robot reactive Navigation, The Industrial Simulation Conference, ISC 2007 2007 .20
- A Weighted Fuzzy System for Autonomous Mobile Robot Navigation, The 12th International Conference on Machine Design and production 2006 .21

- The Use of a Decomposed Fuzzy System for Autonomous Mobile Robot Navigation, The 2003 .22  
Use of a Decomposed Fuzzy System for Autonomous Mobile Robot Navigation
- A Neuro-Fuzzy Reasoning System for Mobile Robot Navigation, A Neuro-Fuzzy Reasoning 2003 .23  
System for Mobile Robot Navigation
- A Novel Fuzzy Like PI Controller, First International Industrial Engineering Conference, 2001 .24  
IIEC-2001
- Speed Control of Induction Motor Using PWM Technique and Series Reactor, Speed 2000 .25  
Control of Induction Motor Using PWM Technique and Series Reactor
- The Use of Low Loss Low Permeability Materials in the Design of High Speed Permanent 1997 .26  
Magnet Motors, 2nd Conf. On Computation Aspect and Their Applications in Electrical Engineering  
((CATAEE-97
- Computer Aided Analysis of High Speed Permanent Magnet Synchronous Motors, 2nd 1997 .27  
(Conf. On Computation Aspect and Their Applications in Electrical Engineering (CATAEE-97
- [A new method to compute eddy current losses by the finite elements method](#), Industry 1997 .28  
Applications Conference, 1997. Thirty-Second IAS Annual Meeting, IAS`97., Conference Record of  
the 1997 IEEE
- [Use of canned rotors in high-field permanent magnet machines](#), IEE Proceedings B 1992 .29  
((Electric Power Applications
- [The use of canned rotors in high speed permanent magnet machines](#), Fifth International 1991 .30  
Conference on Electrical Machines and Drives

#### العضوية في الهيئات المهنية

Iraq ICT Alliance -الآن:

IEEE -الآن:

Iraqi Society for Engineers -الآن:

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المراجع:  
<https://www.unizwa.edu.om/staff/cea/munaf>