


Professor Doctor. Adel Ahmed Obed		
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Qualifications:	الشهادات العلمية:
✚ B.Sc. (1981) in Electrical Engineering. University of Technology, Baghdad	
✚ M.Sc. (1989) in Electrical Engineering, Power and Machines University of Basrah, Iraq	
✚ Ph.D. (2008) in Electrical Engineering, Power and Machines University of Basrah, Iraq	

Fields of Interest:	مجالات الاهتمام:
✚ Control and Protection of Electrical Machines	
✚ Wavelet Applications in Power Systems and Electrical Machines	
✚ PV Fields and their Applications	

Publications:	البحوث المنشورة	
2018	Renewable and Sustainable Energy Reviews	Design and implementation of ANFIS-reference model controller based MPPT using FPGA for photovoltaic system
2014	International Journal of Computer Applications,	Speed control of brushless DC motor based on fractional order PID controller
2020	IOP Conference Series: Materials Science and Engineering	Modeling and Simulation of A Low Cost Perturb& Observe and Incremental Conductance MPPT Techniques In Proteus Software Based on Flyback Converter
2019	International Journal of Power Electronics and Drive System (IJPEDS)	Speed performance evaluation of BLDC motor based on dynamic wavelet neural network and PSO algorithm
2016	Iraqi Journal for Electrical & Electronic	Design and Implementation of Neuro-Fuzzy Controller Using

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	Engineering	FPGA for Sun Tracking System
2021	Energies	Flyback photovoltaic micro-inverter with a low cost and simple digital-analog control scheme
2018	International Journal of Engineering & Technology	Detection and control of power loss due to soiling and faults in photovoltaic solar farms via wireless sensor network
2018	International Journal of Advanced Engineering Research and Science	Speed and current limiting control strategies for BLDC motor drive system: A comparative study
2014	Iraq J. Electrical and Electronic Engineering	Speed control of BLDC motor based on recurrent wavelet neural network
2019	Journal of techniques	Modeling, simulation and implementation of PV system by proteus based on two-diode model
2018	International Energy Journal	Web-Based System Design to Monitor and Control the Mismatching Effects in a Vast Solar Farm
2018	International Journal of Engineering & Technology	Motion control of linear induction motor based on optimal recurrent wavelet neural network-PID controller
2017	The Second Engineering Conference for Graduate Research, Middle Technical University-Electrical Engineering Technical College Baghdad-Iraq, SECGR	brushless DC motor speed control based on PID controller with 2-DOF and anti-windup techniques
2019	International Transactions on Electrical Energy	Anti-windup scheme based on 2DOF-PI^λD^μ controller for velocity tracking of linear induction

		Systems	motor
2011	Journal of Basrah Researches ((Sciences))		A wavelet packet transform-based technique for the discrimination of inrush currents from faults in three-phase transformer
2021	Journal of Techniques		Design of an Uninterrupted Power Supply with Li-Ion Battery Pack: A Proposal for a Cost-Efficient Design with High Protection Features
2018	International Journal of Applied Engineering Research		Multi-resolution wavelet PID speed and current controllers of BLDC motor based on invasive weed optimization technique
2016	The International Journal of Engineering and Science (IJES)		Practical Implementation for Stator Faults Protection and Diagnosis in 3-Ph IM Based on WPT and Neural Network
2019	Indonesian Journal of Electrical Engineering and Computer Science		Photovoltaic flyback micro-inverter with power decoupling technique
2016	Basrah Journal for Engineering Sciences		Independent Control of Two-PMSM Fed by Two SVPWM Inverters with Fault Tolerant Operation
2022	Electronics		Detection and Diagnosis of Stator and Rotor Electrical Faults for Three-Phase Induction Motor via Wavelet Energy Approach
2022	2022 IEEE International Conference in Power Engineering Application (ICPEA)		Efficient Battery Cell Balancing Methods for Low-Voltage Applications: A Review
2020	IOP Conference Series: Materials Science and Engineering		Design of a Smart Energy Management System for Photovoltaic Stand-Alone Building
2017	Journal of		Stator Faults Diagnosis and Protection in 3-Phase Induction

	Engineering	Motor Based on Wavelet Theory
2011	the 4th International Scientific Conference of Salahaddin University	Effect of Duty Cycle and Chopper Frequency of PWM DC-DC Converter Drive on Performance Characteristics of DC Motor
2021	Journal of Engineering	An Efficient Grid-tied Flyback Micro-inverter with DCM Control Strategy
2020	Automation and Control	Wavelet Neural Networks for Speed Control of BLDC Motor
2020	Technology Reports of Kansai University	Comprehensive Modelling of an Optimized Energy Management System for Photovoltaic Standalone Building
2018	Journal of Engineering and sustainable Development	Reduction of Ripple for Direct Torque Controlled Three Phase Induction Motor Based on a Predictive Control Technique
2018	International Journal of Applied Engineering Research	Detection, protection from, classification, and monitoring electrical faults in 3-phase induction motor based on discrete S-transform
2016	Iraqi Journal for Electrical & Electronic Engineering	Plugging Braking of Two-PMSM Drive in Subway Applications with Fault-Tolerant Operation.
2021	IOP Conference Series: Materials Science and Engineering	Towards a Near-Zero Energy Building using a Building-Integrated Photovoltaic System with Smart Energy Management Capabilities
2021	IOP Conference Series: Materials Science and Engineering	A Comparative Study between V/F and IFOC Control for Three-Phase Induction Motor Drives
2021	Journal of Techniques	Performance Study of the Direct-Coupled Photovoltaic Water Pumping System for the Rural-Isolated Agricultural Region in

			Iraq
2021	International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies		Controlling of Boost Converter by Proportional Integral Controller
2021	IOP Conference Series: Materials Science and Engineering		Three-phase induction motor SVPWM-FOC control based on PLC Matlab translation approach
2013	Journal of Engineering		Application of Wavelet Packet and S Transforms for Differential Protection of Power Transformer
2022	IEEE Access		Efficient Flatness Based Energy Management Strategy for Hybrid Supercapacitor/Lithium-ion Battery Power System
2022	Clean Energy		An efficient energy-management strategy for a DC microgrid powered by a photovoltaic/fuel cell/battery/supercapacitor
2022	2022 3rd International Conference on Electrical Engineering and Informatics (ICon EEI)		Implementation of Five Types Strategies for Maximum Power Point Tracking in Photovoltaic System
2022	2022 10th International Conference on Smart Grid (icSmartGrid)		Comprehensive Design for a Neuro-Fuzzy Controller for a Safe Hydrogen Energy Storage
2022	Electronic Systems and Intelligent Computing: Proceedings of ESIC 2021		An Approach for an Intelligent Lithium-Ion Battery Management System with Active Balancing
2021	TELKOMNIKA (Telecommunication Computing		Robotic dry cleaner for photovoltaic solar panels: an implemented design that

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		Electronics and Control)	evaluated in iraq's weather
2020	IOP Conference Series: Materials Science and Engineering		Comparison of Fractional Order Proportional Integral and Proportional Integral Controllers for super-lift Luo converter
2020	IOP Conference Series: Materials Science and Engineering		Simulation and Implementation for Detection and Protection of Stator and Rotor Faults in 3-Ph Induction Motor Using Wavelet Energy Approach
2019	Proceedings of the International Conference on Information and Communication Technology		Multi-step predictive control with three-level SVPWM technique in direct torque controlled three-phase induction motor
2012	Basrah Journal for Engineering Science		Wavelet Packet Transform Based Power Quality Analysis
2020	technology reports of kansai university		Synchronizing Multi-3-Phase Induction Motors Based on PLC Controller; Theoretical and Hardware Implementation

Administration Position: المناصب الادارية

	⊕ (2016-2019), Vice Dean for Scientific Offers/ Electrical Engineering Technical College/Middle Technical University
	⊕ 2019- to date, Dean of Electrical Engineering Technical College/Middle Technical University