

Basic Information :

Name : Almoataz Youssef Abdelaziz Mohamed Abdelmaguid
Title : Professors

AlMoataz Youssef Abdel Aziz
 Born on September 14th, 1963
 PHd Electrical Engineering, Faculty of Engineering - Ain Shams University


Education:

Certificate	Major	University	Year
PhD			1996
Masters			1990

Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Professor	01/09/2025	Current
Ain Shams University	Professor, Electric Power & Machines Dept.	01/01/2007	01/01/2014
King Saud University, Saudi Arabia	Associate Professor	01/01/2006	01/01/2007
Ain Shams University	Associate Professor	01/01/2001	01/01/2006

Researches / Publications :

A Comprehensive Review of Electric Vehicles and Sustainable Urban Mobility in the Middle East and North Africa
Techno-economic challenges of energy hubs under uncertainty optimization using artificial neural networks-based active learning approach
Assessing the Impact of Climate Change on Wind Energy Penetration: Optimization of Scheduling and Carbon Emission Analysis
Review of Energy Storage Systems for Optimal Planning and Operation of Microgrid Resources
Editorial: Demand Side Management in Microgrids
Transient stability improvement of a DFIG-based network-connected wind power plant by control of the flux neutralization current during the voltage drop
Fuzzy logic-based IoT system for optimizing irrigation with cloud computing: Enhancing water sustainability in smart agriculture
Optimal Energy Managing and Power Scheduling of Microgrid in Grid-Connected Mode Using Modified Multi-Objective Manta Ray Technique
Enhancing Stochastic Planning in Autonomous Hybrid Energy Systems through an Advanced Arithmetic Optimization Algorithm and K-Means Data Clustering
A New Sensor-less Voltage and Frequency Control of Stand-alone DFIGs based Deadbeat Direct-Rotor Flux Control-Experimental Validation
An Enhanced Transformer Differential Protection Algorithm Based on the Alpha Plane Concept
Enhancing Rotor Angle Stability of Reconfigured Transmission Networks
A Novel Approach to Wind Energy Modeling in the Context of Climate Change at Zaafrana Region in Egypt
Hosting Capacity Maximization by Optimal Planning of Active and Reactive Power Compensators, Voltage Regulators, and Energy Storage Units in a Rural Egyptian Power System
Comprehensive Guide to Selecting Suitable Wavelet Decomposition Level and Functions in Discrete Wavelet Transform for Fault Detection in Distribution Networks
Evaluation of Modified Fire Hawk Optimizer for New Modification in Double Diode Solar Cell Model

Utilizing Scenario-Based Multi-Functional Energy Storage Systems for Optimal Day-Ahead Operation of Microgrid Resources

Modified Tasmanian Devil Optimization for Solving Single and Multi-Objective Optimal Power Flow in Conventional and Advanced Power Systems

Maiden Application of Mountaineering Team-based Optimization Algorithm Optimized 1PD-PI Controller for Load Frequency Control in Islanded Microgrid with Renewable Energy Sources

A Comprehensive Analysis: Integrating Renewable Energy Sources with Wire/Wireless EV Charging Systems for Green Mobility

Investigation of DG Units Influence on 66 kV Sub-Transmission System Network Considering Region Load Growth: A Case Study

Optimum Coordination Approach for Directional Overcurrent Relays in Interconnected Power Systems Considering Uncertainty in Photovoltaic Generation

Effective energy management strategy with a novel design of fuzzy logic and JAYA-based controllers in isolated DC/AC microgrids: A comparative analysis

MPPT-SAZE Algorithm for Solar PV Array Powered Series-Connected 5-Phase Induction Motors Supplied off a Z-Source and Dual-Inverter

Optimizing energy Dynamics: A comprehensive analysis of hybrid energy storage systems integrating battery banks and supercapacitors

Technical Indices Evaluation of Radial Distribution Network with Optimally Allocated DGs and Capacitors using Golden Jackal Optimization Algorithm

Robust load-frequency control of islanded urban microgrid using 1PD-3DOF-PID controller including mobile EV energy storage

A Novel Nature Inspired Nutcracker Optimizer Algorithm for Congestion Control in Power System Transmission Lines

Decentralized Community Energy Management: Enhancing Demand Response through Smart Contracts in a Blockchain Network

Robust Design and Best Control Channel Selection of FACTs-based WADC for Improving Power System Stability using Grey Wolf Optimizer

Switch fault identification scheme based on machine learning algorithms for PV-Fed three-phase neutral point clamped inverter

Potential of Microgrid Model Based on Hybrid Photovoltaic/Wind Turbine/Generator in the Coastal Area of North Sumatra

LSTM based Low Impedance Fault and High Impedance Fault Detection and Classification

LSTM based Low Impedance Fault and High Impedance Fault Detection and Classification

Enhancing the control of doubly fed induction generators using artificial neural networks in the presence of real wind profiles

Centralized event-based protection based on communication infrastructure of medium voltage direct current network

Blockchain-based approach for load frequency control of smart grids under denial-of-service attacks

A modified white shark optimizer for optimal power flow considering uncertainty of renewable energy sources

Hybrid Siting and Sizing of Distributed Generators and Shunt Capacitors with System Reconfiguration using Wild Horse Optimizer

Review of speed estimation algorithms for three-phase induction motor

A Review of Water Electrolysis for Green Hydrogen Production Considering PV/Wind/Hybrid/Hydropower/Geothermal/Tidal and Wave/Biogas Energy Systems, Economic Analysis, and its Application

A review of different control methods of wind and PV systems

Holistic/Inter-bounded Security Optimal Load Flow for Multi-Regional Region Employing Whale Versus Marine Optimization Algorithms

Study of Load Growth on Optimal Sites and Sizes of DGs Units in SUFALGEN 66 kV Sub-Transmission Network

Optimizing Energy Consumption in Smart Homes: A Comprehensive Review of Demand Side Management Strategies

The Role of Microelectronics for Smart Cities, Smart Grids and Industry 5.0: Challenges, Solutions, and Opportunities

Editorial: Advanced protection for the smart grid

LoRaWAN-based IoT protocol for three levels central protection scheme in MT-HVDC networks with ANFIS-PSO restoration algorithm

Fuzzy Fractional-Order PID Based on A COVID-19 Optimization Tracking Control for Electric Vehicle

Snow Avalanches Algorithm (SAA): A New Optimization Algorithm for Engineering Applications

Enhancing Battery Capacity Estimation Accuracy Using Bald Eagle Search Algorithm
Advanced load frequency control of microgrid using a bat algorithm supported by a balloon effect identifier in the presence of photovoltaic power source
Grid-interfaced photovoltaic system with enhanced resilient control schemes for low-voltage ride-through
Optimal LCL-Filter Design for a Single-Phase Grid-Connected Inverter using Metaheuristic Algorithms
The corona virus search optimizer for solving global and engineering optimization problems
Simultaneous series and shunt earth fault detection and classification using the Clarke transform for power transmission systems under different fault scenarios
Robust Control of DFIG-Based WECS Integrating an Energy Storage System With Intelligent MPPT Under a Real Wind Profile
Simultaneous series and shunt earth fault detection and classification using Clarke transform for power transmission systems under different fault scenarios
A Comprehensive Power Quality Mitigation Tool: UPQC
Harmonic Distortion Assessment in Three-Phase Distribution Networks with the Combined Penetration of Renewable Energy and D-STATCOM
Load Frequency Control in Two-Area Interconnected Systems Using DE-PID and PSO-PID
Enhancement of LVRT Ability of DFIG Wind Turbine by an Improved Protection Scheme with a Modified Advanced Nonlinear Control Loop
Parameter Estimation of Fuel Cells Using a Hybrid Optimization Algorithm
Optimal Reconfiguration for Extra High Voltage Transmission Networks using an Enhanced Brute-Force Algorithm
An Improved Sensorless Nonlinear Control Based on SC-MRAS Estimator of Open-End Winding Five-Phase Induction Motor Fed by Dual NPC Inverter: Hardware-in-the-Loop Implementation
An intelligent protection scheme for series-compensated transmission lines connecting large-scale wind farms
A Comprehensive Examination of Vector-Controlled Induction Motor Drive Techniques
Developing a strategy based on weighted mean of vectors (INFO) optimizer for optimal power flow considering uncertainty of renewable energy generation
Feasibility and Potential Assessment of Solar Resources: A Case Study in North Shewa Zone, Amhara, Ethiopia
Damping of Frequency and Power System Oscillations with DFIG Wind Turbine and DE Optimization
Oscillation Damping Neuro-Based Controllers Augmented Solar Energy Penetration Management of Power System Stability
Optimum Estimation of Series Capacitors for Enhancing Distribution System Performance via an Improved Hybrid Optimization Algorithm
Robust Fault Recognition and Correction Scheme for Induction Motors Using an Effective IoT with Deep Learning Approach
Traveling Wave-Based Fault Localization in FACTS-Compensated Transmission Line via Signal Decomposition Techniques
Modified Analytical Technique for Multi-objective Optimal Placement of High-level Renewable Energy Penetration Connected to Egyptian Power System
Manta ray foraging optimization algorithm-based load frequency control for hybrid modern power systems
Optimum Design of a Renewable-Based Integrated Energy System in Autonomous Mode for a Remote Hilly Location in Northeastern India
A Novel Stochastic Optimizer Solving Optimal Reactive Power Dispatch Problem Considering Renewable Energy Resources
Load Forecasting Models in Smart Grid Using Smart Meter Information: A Review
Identification of Cross-Country Fault with High Impedance Syndrome in Transmission Line Using Tunable Q Wavelet Transform
Optimal Sizing of a Photovoltaic Pumping System Integrated with Water Storage Tank Considering Cost/Reliability Assessment Using Enhanced Artificial Rabbits Optimization: A Case Study
Effective Load Frequency Control of Power System with Two-Degree Freedom Tilt-Integral-Derivative Based on Whale Optimization Algorithm
Design of a 2DOF-PID Control Scheme for Frequency/Power Regulation in a Two-Area Power System Using Dragonfly Algorithm with Integral-Based Weighted Goal Objective

Power Flow Optimization by Integrating Novel Metaheuristic Algorithms and Adopting Renewables to Improve Power System Operation
Optimal Power Flow with Stochastic Renewable Energy Using Three Mixture Component Distribution Functions
Dynamic Performance Assessment of PMSG and DFIG-Based WECS with the Support of Manta Ray Foraging Optimizer Considering MPPT, Pitch Control, and FRT Capability Issues
Impedance Based Directional Relaying For Smart Power Networks Integrating With Converter Interfaced Photovoltaic Plants
A probabilistic approach for power cable cross section area selection: Most economic design by computer aided
Power System Stability Enhancement Using Robust FACTS-Based Stabilizer Designed by a Hybrid Optimization Algorithm
The Mixture of Probability Distribution Functions for Wind and Photovoltaic Power System using a Metaheuristic Method
Deep learning-based identification of false data injection attacks on modern smart grids
Stochastic Allocation of Photovoltaic Energy Resources in Distribution Systems Considering Uncertainties Using New Improved Meta-Heuristic Algorithm
An Efficient Capuchin Search Algorithm for Extracting the Parameters of Different PV Cell/Modules
Towards Maximizing Hosting Capacity by Optimal Planning of Active and Reactive Power Compensators and Voltage Regulators: Case Study
Boosting the output power of PEM fuel cells by identifying best-operating conditions
Stochastic-Metaheuristic Model for Multi-criteria Allocation of Wind Energy Resources in Distribution Network using Improved Equilibrium Optimization Algorithm
Optimal Allocation of Distributed Thyristor Controlled Series Compensators in Power System Considering Overload, Voltage and Losses with Reliability Effect Using Improved Equilibrium Optimization Algorithm
A Novel Primary and Back-up Relaying Scheme for Bipolar HVDC Transmission Lines
A Critical Analysis of Modelling Aspects of D-STATCOMs for Optimal Reactive Power Compensation in Power Distribution Networks
Human Exposure Influence Analysis for Wireless Electric Vehicle Battery Charging
An Optimized Control Scheme for Solar Energy Tracking Systems
New Class of Power Converter for Performing the Multiple Operations in a Single Converter: Universal Power Converter
DE-Algorithm-Optimized Fuzzy-PID Controller for AGC of Integrated Multi Area Power System with HVDC Link
Enhancement of Frequency Stability of Power Systems Integrated with Wind Energy Using Marine Predator Algorithm Based PIDA Controlled STATCOM
Comparative study of Different Topologies of Solar Photovoltaic fed Impedance-Source Inverter based Dynamic Voltage Restorer
An optimal sizing framework for autonomous photovoltaic/hydrokinetic/hydrogen energy system considering cost, reliability and forced outage rate using horse herd optimization
Coordinated Design of Type-2 Fuzzy Lead-Lag-Structured SSSCs and PSSs for Power System Stability Improvement
Single-Phase Universal Power Compensator with an Equal VAR Sharing Approach
Optimal Planning of Multitype DGs and D-STATCOMs in Power Distribution Network Using an Efficient Parameter Free Metaheuristic Algorithm
Savitzky-Golay Filter integrated matrix pencil method to identify high impedance fault in a renewable penetrated distribution system
Mixture Probability Distribution Functions using Novel Metaheuristic Method in Wind Speed Modeling
Reactive Power based Capacitors Allocation in Distribution Network Using Mathematical Remora Optimization Algorithm considering Operation Cost and Loading Conditions
Comparison between flexible AC transmission systems (FACTs) and filters regarding renewable energy systems harmonics mitigation
Optimal Allocation of Distributed Generators in Active Distribution Networks Using a New Oppositional Hybrid Sine Cosine Muted Differential Evolution Algorithm
Optimal Placement of Renewable Energy Generators Using Grid Oriented Genetic Algorithm for Loss Reduction and Flexibility Improvement
Mitigating Generation Schedule Deviation of Wind Farm using Battery Energy Storage System

Reliable Deep Learning and IoT-based Monitoring System for Secure Computer Numerical Control Machines Against Cyber-Attacks with Experimental Verification

Investigation of Different Probability Distribution Functions for Wind Speed Modelling Using Classical and Novel Metaheuristic Methods

A Cost-Benefit Analysis of Optimal Active and Reactive Power Compensators and Voltage Conditioners Allocation in a Real Egyptian Distribution System

Evaluation of Algorithms for Fundamental and Harmonic Impacts of Integration of Renewable Energy Sources in Smart Power Distribution Networks

Comprehensive Overview of Power System Flexibility during the Scenario of High Penetration of Renewable Energy in Utility Grid

Experimental and Analytical Studies of Blade Angle Influences Under Normal and Faulty Conditions

Locating Faults in Thyristor-based LCC-HVDC Transmission Lines Using Single End Measurements and Boosting Ensemble

Awards:

Award	Donor	Date
Prize of Ain Shams Universit for International Publishing	Ain Shams University	01/01/2012
Prize of Best Researcher In Electrical Power & Machines Dept.	Ain Shams University	01/01/2012
Prize of Ain Shams Universit for International Publishing	Ain Shams University	01/01/2011
Prize of Ain Shams Universit for International Publishing	Ain Shams University	01/01/2010