Basic Information :

Name :	Hossam Eldin Abdallah Talaat
Title :	Professor

Hossam Eldin Abdallah Talaat

Former Head of the Departmnet Of Electrical Power Engineering & Machines
Ain Shams University

Education:

Certificate	Major	University	Year
PhD	Electrical Power Engineering	University Of Grenoble, France - faculty of Engineering	1986
Masters	Electrical Power Engineering & Machines	Faculty of Engineering - Ain Shams University	1980
Bachelor	Department of Electrical Engineering	Faculty of Engineering - Ain Shams University	1975

Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Professor	01/09/2025	Current
Faculty of Engineering& Technology	Director of Quality Assurance Unit	01/01/2016	01/01/2017
Electrical Engineering Dept., FUE	Professor	01/01/2015	01/01/2017
Ain Shams University	Head of Electrical Power Eng. Dept.	01/01/2013	01/01/2014
Ain Shams University	Professor	01/01/2000	01/01/2017

Researches / Publications :

Walrus optimizer-based optimal fractional order PID control for performance enhancement of offshore wind farms
A chaos game optimization algorithm-based optimal control strategy for performance enhancement of offshore wind farms
Various Control Techniques for Converter-Based DC Power Transmission in Offshore Wind Systems: A Comprehensive Review
A Novel Dynamic Li-Ion Battery Model for the Aggregated Charging of EVs
A novel approach for power ramps classification in wind generation
Characterization of Short-Term Wind Power Variations and Estimation of Reserve Requirements for High Wind Generation Shares
Optimization of Power System Stabilizers Using Proportional-Integral-Derivative Controller-Based Antlion Algorithm: Experimental Validation via Electronics Environment
Modern Active Voltage Control in Distribution Networks, including Distributed Generation, Using the Hardware-in-the-Loop Technique
A Probabilistic Methodology for Estimating Reserve Requirement and Optimizing Its Components in Systems With High Wind Penetration
Hierarchical Clustering-Based Framework for Interconnected Power System Contingency Analysis
Optimal Power Flow of Power Networks with Penetration of Renewable Energy Sources By Harris hawks Optimization Method
A probabilistic multi-objective approach for FACTS devices allocation with different levels of wind penetration under uncertainties and load correlation
Generalized optimal placement of PMUs considering power system observability, communication infrastructure, and quality of service requirements

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Population based optimization algorithms improvement using the predictive particles
Population based optimization algorithms improvement using the predictive particles
Wind Power Ramps Analysis for High Shares of Variable Renewable Generation in Power Systems
Steady-state Security Assessment Based on K-Means Clustering Algorithm and Phasor Measurement Units
Optimal Power Flow of Power Systems Using Hybrid Firefly and Particle Swarm Optimization Technique
Analyzing Wind Power Ramps for High Penetration of Variable Renewable Generation
Active Voltage Control in Distribution Networks including Distributed Generations using Hardware-In-The-Loop Technique
Technical Investigation for Power System Flexibility
Overview of Power System Flexibility Options with Increasing Variable Renewable Generations
Optimal placement of phasor measurement units considering islanding contingency, communication infrastructure, and quality of service
Optimal Power Flow of Power Systems Including Distributed Generation Units Using Sunflower Optimization Algorithm
Incorporating Switched Modulated Power Filter Compensator to Enhance Microgrid Stability Under Fault Provoked Islanding Conditions
Performance assessment of bacterial foraging based power system stabilizer in multi-machine power system
Conceptual Analysis of Different Clustering Techniques for Static Security Investigation
Modified Particle Swarm Optimization Based on Lead-Lag Power System Stabilizer for Improve Stability in Multi-Machine Power System
A Power System Adaptive Scheme Depending on a Data Mining Model
Generated Power-Based Composite Security Index for Evaluation of Cascading Outages
The Impact of Inverter Overloading Capability on the FRT Performance of Inverter-Based DG Units
A Power System Adaptive Protection Scheme Depending on a Data Mining Model
Generated Power-Based Composite Security Index for Evaluation of Cascading Outages
The Impact of Inverter Overloading Capability on the FRT Performance of Inverter-Based DG Units
Optimal Reconfiguration and DG Allocation in Active Distribution Networks Using a Probabilistic Approach
Optimal Reconfiguration and DG Allocation in Active Distribution Networks Using a Probabilistic Approach
An Adaptive Hybrid Approach for Protection of Transmission Line Compensated with UPFC
Dynamic Performance of Microgrid after Fault Provoked-Islanding Considering Induction Motor Loads
Synchrophasor measurements-based on-line power system steady-state security indicesð part I: Methodology
Dynamic Performance of Microgrid after Fault Provoked-Islanding Considering Induction Motor Loads
Synchrophasor measurements-based on-line power system steady-state security indicesð part I: Methodology
Adaptive protection coordination scheme for distribution networkwith distributed generation using ABC
Performance Investigation of Microgrid Stability Subsequent to Fault Provoked-Islanding with Different Loads and DG Conditions
Performance Investigation of Microgrid Stability Subsequent to Fault Provoked-Islanding with Different Loads and DG Conditions
Adaptive Under frequency Load Shedding for an Islanded Microgrid
Comparative Analysis of DFIG and SCIG Based Grid Connected Wind Turbine under Different Modes of Operation
Comparative Analysis of DFIG and SCIG Based Grid Connected Wind Turbine under Different Modes of Operation
Modified Particle Swarm Optimization Based Proportional-Derivative Power System Stabilizer
Modified Particle Swarm Optimization Based Proportional-Derivative Power System Stabilizer
Distance Protection of AC Feeding System for Electrified Railways

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Modern Approaches for Protection of Transmission Line Compensated With UPFC
Smart Current Differential Protection for Transmission Lines
Protective Devices Optimal Placement in Distribution Networks with DGs: Risk-Based Analysis and Solution
Risk Based Protective Devices Optimal Placement in Distribution Networks with DGs: A Cuckoo Search-Based Approach
Coordination Of Directional Overcurrent Relays Using Artificial Bee Colony
Fault Detection and Classification Based on DWT and Modern Approaches for T.L Compensated with FACTS
Intelligent maximum power tracking and inverter hysteresis current control of grid-connected PV systems
Allocation and Sizing of Distributed Generation Units for Minimizing Distribution Network Losses Using Genetic Algorithms
Adaptive Reclosing Strategy Based on Estimation of Distributed Generation Penetration Level
A Simulated Annealing Approach For Distance Relaying Under Arcing Fault Conditions
Optimal Allocation and Sizing of Distributed Generation in Distribution Networks Using Genetic Algorithms
Design and Experimental Investigation of a Decentralized GA-Optimized Neuro-Fuzzy Power System Stabilizer
Fault diagnosis system for tapped power transmission lines
A GA-Optimized Neuro-Fuzzy Power System Stabilizer for Multi-Machine System
An ANN Based Fault Diagnosis System for Tapped HV/EHV Power Transmission Lines
Adaptive Coordination of Overcurrent Relays
Effects Of Electrical Supply Voltage Dips In Process Industry Applications
Effects Of Electrical Supply Voltage Dips In Process Industry Applications
Chapter :
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Awards:

Award	Donor	Date
the Golden prize (first class) as a distiguished evaluator	King Abdulaziz City for Science and Technology ñKACSTò	01/01/2004

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