Basic Information :

Name :	Said Fouad Mohamed Mekhemar
Title :	Professors

Education:

Certificate	Major	University	Year
PhD	*	Dalhousie University - Canada	2002
Bachelor	Electrical Power	Ain Shams University	1993

Teaching Experience:

Name Of Organization	Position	From Date	To Date
FUE	Section Head	01/02/2017	Current

Researches / Publications :

Advanced Control Strategies for Wind Turbine Blade Angle Systems: A Comparative Study of Optimization Algorithms and Controllers

Enhancing Load Frequency Control in Power Systems Using Hybrid PIDA Controllers Optimized with TLBO-TS and TLBO-EDO Techniques

Comparative analysis of PI and fuzzy logic controller for grid connected wind turbine under normal and fault conditions

Enhancement of AVR system performance by using hybrid harmony search and dwarf mongoose optimization algorithms

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

Impacts of High Wind Penetration Levels on Estimating and Allocating Reserve Needs

Development of AVR controller performance using exponential distribution and transit search optimization techniques

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

A Probabilistic Methodology for Estimating Reserve Requirement and Optimizing Its Components in Systems With High Wind Penetration

Probabilistic Optimal Power Flow Solution Using a Novel Hybrid Metaheuristic and Machine Learning Algorithm

Optimal Power Flow of Power Networks with Penetration of Renewable Energy Sources By Harris hawks Optimization Method

Generalized optimal placement of PMUs considering power system observability, communication infrastructure, and quality of service requirements

Population based optimization algorithms improvement using the predictive particles

Enhancing radial distribution system performance by optimal placement of DSTATCOM

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Generation expansion planning with high shares of variable renewable energies

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

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

Solution of distributed generation allocation problem using a novel method

Optimal Power Flow of Power Systems Including Distributed Generation Units Using Sunflower Optimization Algorithm

Solution of distributed generation allocation problem using a novel method

Reactive Power and Voltage Control of Offshore Wind Parks Based PI Controller tuning for STATCOM via Genetic Algorithm

Considerations on optimal design of hybrid power generation systems using whale and sine cosine optimization algorithms

Maximum power point tracking under partial shading condition using particle swarm optimization with DC-DC boost converter

Application of Different Optimization Techniques to Load Frequency Control with WECS in A Multi-Area System

Solution of the capacitor allocation problem using an improved whale optimization algorithm

Impact of generation mix flexibility on the integration of variable renewable energies

Design of Hybrid Power Generation Systems Connected to Utility Grid and Natural Gas Distribution Network: A New Contribution

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Design of an adaptive overcurrent protection scheme for microgrids

Optimal Battery Sizing in Wind System Using Firefly and Harmony Search Techniques

A Power System Adaptive Scheme Depending on a Data Mining Model

Optimal battery sizing in wind system using firefly and harmony search techniques

A power system adaptive protection scheme depending on a data mining model

Optimal Design of a New Configuration of the Distributed Generation Units using Grey Wolf and Dragonfly Optimizers

Optimal multi-criteria design of a new hybrid power generation system using ant lion and grey wolf optimizers

A probabilistic approach for the optimal placement of PMUs with limited number of channels

A probabilistic approach for the optimal placement of PMUs with limited number of channels

Optimal multi-criteria design of a new hybrid power generation system using ant lion and grey wolf optimizers

Power System Observability of Phasor Measurement Units: A Binary Integer Programming Approach

The Firefly Meta-Heuristic Algorithms: Developments and Applications

Enhancing the Power System Observability with the Aid of Phasor Measurement Units

Analysis of Subsynchronous Resonance Using Neural Networks

ANN for Subsynchronous Resonance Detection

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