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 :

- Enhancement of PID controller performance for a combined LFC and AVR single- and two-area model using exponential distribution optimization technique
- 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
- 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
Design of Hybrid Power Generation Systems Connected to Utility Grid and Natural Gas Distribution Network: A New Contribution
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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