

Author Index

Author Name	Page	Paper title
	26	An Integrated Power Differential Scheme for Tertiary Power Transformer Protection
A. Abd El-Ghany, Hossam	784	A day-ahead optimal RERs scheduling approach for virtual power plants considering different loading conditions
A. Abdel Aziz, Ghada	1168	Seamless Control for a PV System During Transitions Between Grid Connection And Standalone Operation
A. Abdelnaby, Nesma	1068	Over Frequency Problem Mitigation Using Grasshopper Based PID Auxiliary Governors
A. Abdelsalam, Abdelazeem	921	MITIGATION OF ELECTRIC VEHICLE DISTORTION IMPACT ON DISTRIBUTION NETWORKS
A. Abdelsalam, Hany	81	Fuzzy-based Adaptive Sliding Mode Control for a Direct-Driven PMSG Wind Energy System
A. Abu Adma, Maged	1	Generation Expansion Planning Considering High Share Renewable Energies Uncertainty
A. Ahmed, Abdelsalam	81	Fuzzy-based Adaptive Sliding Mode Control for a Direct-Driven PMSG Wind Energy System
A. Ahmed, Taiea.	170	A Study of Level- Shifted PWM Single-phase 11-Level Multilevel Inverter
A. Ali, Mostafa	1150	Designing a Magnetic Amplifier Used For DC Motor Speed Control
A. Ebrahim, Asmaa	846	Optimal Allocation of Reactive Power Compensation in a Distribution Network with Photovoltaic System Integration
	103	Application of a Combined System Between Perturb and Observe Method and Incremental Conductance Technique for MPPT in PV Systems
A. El Baset A. El Halim, Ahmed	716	A Comparative Study Between Perturb and Observe and Cuckoo Search Algorithm for Maximum Power Point Tracking
	103	Application of a Combined System Between Perturb and Observe Method and Incremental Conductance Technique for MPPT in PV Systems
A. El Sattar, Ahmed	716	A Comparative Study Between Perturb and Observe and Cuckoo Search Algorithm for Maximum Power Point Tracking
A. El-Dessouki, M.	1101	Various Communication Technologies Used in Smart Grid
A. El-Samahy, Adel	189	Probabilistic Model of Utility Scale PV Plants
	627	An Unbalance Mitigation Method based on 3D-SVPWM for Four-Wire Three-Leg Mid Capacitor Point Inverter
A. El-Sattar, Ahmed	1057	Active Filter Based on Four -Leg Inverter and PQ Theory
	1168	Seamless Control for a PV System During Transitions Between Grid Connection And Standalone Operation
A. El-Sehiemy, Ragab	784	A day-ahead optimal RERs scheduling approach for virtual power plants considering different loading conditions
	429	Modelling, Simulation of MPPT Using Perturb and Observe and Incremental Conductance techniques For Stand-Alone PV Systems
A. Elbaset, Adel	1006	Power Quality Issues of Grid Connected Wind Energy System Focus on DFIG and Various Control Techniques of Active Harmonic Filter: A review
	502	Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study
A. Elsadd, Mahmoud	890	Multi-Function Protection Scheme for HVDC Transmission Systems
A. Elsayed Eid, Mohammed	429	Modelling, Simulation of MPPT Using Perturb and Observe and Incremental Conductance techniques For Stand-Alone PV Systems
A. Hafez, Wessam	1006	Power Quality Issues of Grid Connected Wind Energy System Focus on DFIG and Various Control Techniques of Active Harmonic Filter: A review
A. Hassan, Ahmed	202	Adaptive Load Frequency Control Based on Dynamic Jaya Optimization Algorithm of Power System with Renewable Energy Integration
	311	Control Strategies for VSC based HVDC during Grid Faults: A comparative study of selection criteria of Currents Reference
A. Ibrahim, Hamed	429	Modelling, Simulation of MPPT Using Perturb and Observe and Incremental Conductance techniques For Stand-Alone PV Systems

A. Izzularab, Mohamed	502	Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study
	890	Multi-Function Protection Scheme for HVDC Transmission Systems
A. Kawady, Tamer	502	Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study
	890	Multi-Function Protection Scheme for HVDC Transmission Systems
A. Khattab, Heba	927	Design, Sizing and Performance Analysis of Stand-Alone PV System using PVSyst Software for a Location in Egypt
A. Mansour, Ahmed	627	An Unbalance Mitigation Method based on 3D-SVPWM for Four-Wire Three-Leg Mid Capacitor Point Inverter
A. Mohamed Abdelwahab, Saad	429	Modelling, Simulation of MPPT Using Perturb and Observe and Incremental Conductance techniques For Stand-Alone PV Systems
	731	Enhancement of Traditional Maintenance Systems for Miniature Circuit Breakers Using Nanoparticles
A. Mohamed, Aboufotouh	139	Optimal Switched Compensator for Vehicle-to-Grid Battery Chargers using Salp Optimization Algorithm
A. Nassar, Ibrahim	933	Influence of using Intermittent Renewable Energy Sources on The Power System Operation
A. Taher, Mahrous	411	Series FACTS Devices for Maximization of Loadability and Minimization of Fuel Cost
A. Ward, Sayed	639	A Modified Dissolved Gas Analysis Technique as a Diagnostic Tool for Faults in Power Transformers
A. Zaki Diab, Ahmed	81	Fuzzy-based Adaptive Sliding Mode Control for a Direct-Driven PMSG Wind Energy System
	202	Adaptive Load Frequency Control Based on Dynamic Jaya Optimization Algorithm of Power System with Renewable Energy Integration
A.Mansour, Ahmed	1057	Active Filter Based on Four -Leg Inverter and PQ Theory
A.Nassar, Ibrahim	459	Enhancement of Voltage Profile in Power Systems by Using Genetic Algorithm
A.Omara, Mohamad	459	Enhancement of Voltage Profile in Power Systems by Using Genetic Algorithm
Abbas, Ahmed	465	Comprehensive Parametric Analysis of Single Tuned Filter in Distribution Systems
Abbas, Elhussien	1186	Improved Speed Sensor-Less Dynamic Performance of A Five-Phase Induction Motors Drive Based Wiener Filter
Abbasy, Nabil	1145	Optimal Placement of Micro PMUs in Distribution Networks using A Graph Theory / Greedy Hybrid Algorithm
Abd El Aziz, Mahmoud	562	Capacitor Switching with Distribution System Reconfiguration and Load Variations: Practical Case Study using ETAP and Network Analyzer
Abd El Moteleb, Mohammed	768	Analyzing wind power ramps for high penetration of variable renewable generation
Abd El Sattar, Montaser	1006	Power Quality Issues of Grid Connected Wind Energy System Focus on DFIG and Various Control Techniques of Active Harmonic Filter: A review
Abd El-Salam, Tarek	896	Tuned Hyper Reconfiguration Analysis Applying Plant Growth Algorithm
Abd-Elatif, A. S	491	A Novel Busbar Protection Based On Correlation Technique
	41	Optimal Operation of Synchronous Motor Using Particle Swarm Optimization and Jaya Techniques
Abd-Elwanis, Mohamed I.	177	A Newly On-Time Following Up Electrical Earthing System Technology
Abdalfatah, Samia	1025	Hybrid PV/FC System Design and Simulation
Abdalla, Omar	698	Technical Overview of Connecting Small Scale Photovoltaic Systems in Egypt
Abdalla, Omar H.	1223	Secondary Voltage Control of a Multi-region Power System
Abdallah Mahmoud Shaheen, Mohamed	232	Optimal Power Flow of Power Systems Using Hybrid Firefly and Particle Swarm Optimization Algorithm
Abdallah Talaat, Hossam Eldeen	232	Optimal Power Flow of Power Systems Using Hybrid Firefly and Particle Swarm Optimization Algorithm
Abdel Aleem, Shady	828	Day-Ahead Optimal Scheduling for Grid-Connected Microgrid with Energy Storage Systems

Abdel Ghany, A. M.	809	BELBIC Load Frequency Controller Design for a Hydro-Thermal Power System
Abdel Ghany, A.M.	1223	Secondary Voltage Control of a Multi-region Power System
Abdel-Akher, Mamdouh	675	Power Loss Reduction using Adaptive PSO in Unbalanced Distribution Networks
Abdel-Fatah, Said	594	Moth Swarm Algorithm for Reactive Power Dispatch Considering Stochastic Nature of Renewable Energy Generation and Load
Abdel-Gawad, Nagat M. K.	761	Influence of Fault Locations on the Pipeline Induced Voltages Near to Power Transmission Lines
Abdel-Ghany, A.M	710	Advanced Control Techniques for an Interconnected Multi Area Power System for Load Frequency Control
Abdel-Hakim, Alaa E.	796	A GA-based method for computing MOF-weighting coefficients along with optimal location and sizing of DG sources in distribution systems
Abdel-Mawgoud, Hussein	354	Minimizing Power Loss and Improving Voltage Stability in Distribution System Through Optimal Allocation of Distributed Generation Using Electrostatic Discharge Algorithm
	687	Simultaneous Allocation of Multiple Distributed Generation Units in Distribution Networks Using Chaotic Grasshopper Optimization Algorithm
Abdel-Rahim, Abdel-Moamen	348	Comprehensive study of Reactive Power and its Compensation Using Shunt-Connected FACTS Device
Abdel-Rahim, Omar	14	An improved Predictive Torque Control for Multi-Phase Matrix Converter
	164	Negative-Positive Neutral point based Two-Stage Inverter for Photovoltaic application
Abdel-Salam, Gamal	698	Technical Overview of Connecting Small Scale Photovoltaic Systems in Egypt
	383	Optimal sizing and locations of DG sources in distribution systems: A review of different techniques
Abdel-Salam, Mazen	484	Power Loss in SMES coil as influenced by its material
	796	A GA-based method for computing MOF-weighting coefficients along with optimal location and sizing of DG sources in distribution systems
	914	A PSO-based Multi-objective Method for Optimal Weight Factors, Placement and Sizing of Multiple DG Units in a Distribution System
Abdel-Salam, T.S.	878	Cost and Shadow Price Minimization in Electrical Power Network
Abdel-Sattar, Ahmed	1101	Various Communication Technologies Used in Smart Grid
Abdel-Wahab, Samar	1210	Common-Mode Voltage Reduction Algorithm with Minimum Switching Losses for Three-Phase Inverters
Abdelaal, Omima	478	Model Predictive Control Of Quasi Y-Source Inverter
Abdelaziz Ahmed, Mohamed	392	Electric Spring Technology in Small Scale Residential Microgrid
Abdelaziz, Almoataz	89	Grey Wolf Algorithm as a Solution for Cascading Control Problem in Converter Based HVDC Energy Transmission System
	828	Day-Ahead Optimal Scheduling for Grid-Connected Microgrid with Energy Storage Systems
Abdelaziz, Almoataz Y.	575	Harris Hawks Algorithm for Automatic Generation Control of Interconnected Power Systems
	650	Sliding Mode Control for Hybrid Power Sources Micro-grid
Abdelhafez, Ahmed	1162	AC Micro-Grid Flexible Simulation Utility for SCADA System Development
Abdelhameed, Esam H	964	Disturbance Estimation and Compensation for High-Precision Point-to-Point Motion Control
Abdelhamid, Tamer H.	550	Survey of Communication Techniques in Smart Grids
Abdelkader, Mohamed	1048	Optimal Placement of Phasor Measurement Units for State Estimation of Electrical Power Systems
Abdella, Mahmoud	583	OPTIMIZATION AND STABILITY ANALYSIS OF OFFSHORE HYBRID RENEWABLE ENERGY SYSTEMS
Abdelmaksoud, Samir	65	Solving Economic Load Dispatch Problem by Imperialist Competitive Algorithm
Abdelrahem, Mohamed	226	High-Precision Sensorless Predictive Control of Salient-Pole Permanent Magnet Synchronous Motor based-on Extended Kalman Filter

Abdelrehim, Ahmed	271	Improved Indirect 3D Space Vector Modulation for Repetitive Controlled Four-Leg Matrix Converter
Abdelrehim, Yehia	790	Sharm El-Sheikh 5 MW PV Plant Performance, Environmental Impact and Grid Connection Parameters
Abdelsalaam, Tarek	840	Maximum Power Point Tracking For a Stand Alone PV System Under Shading Conditions Using Flower Pollination Algorithm
Abdelsalam, Ibrahim	1168	Seamless Control for a PV System During Transitions Between Grid Connection And Standalone Operation
Abdelsalam, Tarek	994	Optimal Allocation for Photovoltaic / Wind Turbine Applying A Hybrid Butterfly Genetic Algorithm
Abdelwahab, Rehab H.	550	Survey of Communication Techniques in Smart Grids
Abdin, Amr	840	Maximum Power Point Tracking For a Stand Alone PV System Under Shading Conditions Using Flower Pollination Algorithm
Abdul Jabir, Hagag	1063	Optimal Coordination of Overcurrent Relay Using Metaphor-less Simple Method
Abdul Raouf Shafei, Mohamed	417	Active and Reactive Power Control of Marine Current Turbines with Flywheel Energy Storage System Using Meta-heuristic Technique
	790	Sharm El-Sheikh 5 MW PV Plant Performance, Environmental Impact and Grid Connection Parameters
Abdulsalam, Mahmoud	1204	Cascaded Multilevel Split-Source Inverters: Analysis and Modulation
Abo El-Ela, Adel	441	Optimal Allocation of DGs and Capacitor Devices using Improved Grey Wolf Optimizer
Abuelhassan, Ismail	736	Energy Management and Control Strategy of DC Microgrid Including Multiple Energy Storage Systems
	435	Multi-objective Binary Particle Swarm Optimization Algorithm for Optimal Distribution System reconfiguration
Abou El- Ela, Adel	509	Parallel Binary Sine Cosine with Optimal Priority List Algorithm for Unit Commitment
Abou El-Ela, A. A.	815	Optimal Assessment of Hybrid Wind Energy with Fuel Cell for Supplying Distribution Network in Egypt
	238	Optimal Transmission System Expansion Planning Via Binary Bat Algorithm
	465	Comprehensive Parametric Analysis of Single Tuned Filter in Distribution Systems
Abou El-Ela, Adel	533	OPTIMAL ALLOCATION OF A HYBRID RE/ESS FOR SUPPLYING EGYPTION DISTRIBUTION NETWORKS USING DISCRETE JAYA ALGORITHM
	939	Partical Swarm Optimization Tuning Based Controlled Series FACTS for Power System Stability Enhancement
Abouazma, Maged	324	Advanced Method for Optimal Allocation of FACTS Devices Using Line Stability Index Combined with Meta-Heuristic Optimization Techniques
Aboubakr M., M.	1101	Various Communication Technologies Used in Smart Grid
Abu Zaher, Mustafa	704	Experimental Realization for P&O Maximum Power Point Tracking Applied for Single-Stage Three-Phase Grid-Connected Photovoltaic System
Abubakr, Hussein	589	ESO-Based Self Tuning Frequency Control Design for Isolated Microgrid System
Abulanwar, Sayed	1089	Mitigation of DC Wind Farm Power Fluctuations Based Battery Energy Storage System
Aburaghiega, Dr. Ehnaiish	521	On-line Condition Monitoring of Power Transformer Health Status Enforced by Temperature and Electrical Signatures
Adel Ibrahim, Shimaa	639	A Modified Dissolved Gas Analysis Technique as a Diagnostic Tool for Faults in Power Transformers
Adel, Mohamed	1186	Improved Speed Sensor-Less Dynamic Performance of A Five-Phase Induction Motors Drive Based Wiener Filter
Afifi, Mohamed A.	1053	Electrical Tracking and Erosion of Silicone Rubber Filled with Alumina Tri-Hydrate
Ahmad, Eman S.	337	Power Differential Protection for Transmission Lines with Superconducting Fault Current Limiters
Ahmed E. Shaban,	908	Modeling, Simulation and Classification of Power Transformer Faults Based on FRA Test
	411	Series FACTS Devices for Maximization of Loadability and Minimization of Fuel Cost
Ahmed, Abdalla	1000	Optimal DG Allocation in Radial Distribution Networks Using a Combined Approach Consisting Particle Swarm Optimization, Grey Wolf Optimizer and Loss Sensitivity Factor

Ahmed, Abdelsalam A.	834	A Wide Component Sizing and Performance Assessment of Electric Drivetrains for Electric Vehicles
	1042	An Efficient Low-Cost Distributed MPPT Method for Energy Harvesting in Grid-Tied Three-Phase PV Power Optimizers
Ahmed, Emad M.	1174	Advanced Multi-disciplinary Modelling of Lithium-Ion Batteries for Outdoor Applications
Ahmed, Hanaa M.	1199	The Effect of Surface Modification of Titania Nanoparticles on the Dielectric Properties of Nanofluids
Ahmed, Mohamed	645	Coupled Finite Element-Circuit Modelling and Parameter Estimation Of Six-Phase Induction Motor
Ahmed, Ragab	939	Partial Swarm Optimization Tuning Based Controlled Series FACTS for Power System Stability Enhancement
Ahmed, Shazly	348	Comprehensive study of Reactive Power and its Compensation Using Shunt-Connected FACTS Device
Akef, Samar	1020	Safe Grounding Grid Design for Converter Station
Akl, Mahmoud M.	834	A Wide Component Sizing and Performance Assessment of Electric Drivetrains for Electric Vehicles
Al-Gabalawy, Mostafa	958	Optimization of Voltage Source Inverter's Controllers Using Salp Swarm Algorithm in Grid Connected PV System
Al-Sharif, M.R.	195	Improvement of Electrical Field Distribution on Non-Ceramic Insulators String Using Nanoparticles
Al-Zahar, Walid	238	Optimal Transmission System Expansion Planning Via Binary Bat Algorithm
Alharthi, Mosleh	76	A Decision Transformer Fault Diagnostics System Based on Dissolved Gas Analysis
	1107	IoT-Based Power Management for DC Microgrids
Ali Hamdy, Ragi	1139	Model Predictive Control of Three-Phase Electric Springs with Multiple Control Functions and Fixed Switching Frequency
Ali, Eman	465	Comprehensive Parametric Analysis of Single Tuned Filter in Distribution Systems
Ali, Samia	828	Day-Ahead Optimal Scheduling for Grid-Connected Microgrid with Energy Storage Systems
Allam, Dalia	958	Optimization of Voltage Source Inverter's Controllers Using Salp Swarm Algorithm in Grid Connected PV System
Allam, S. M.	815	Optimal Assessment of Hybrid Wind Energy with Fuel Cell for Supplying Distribution Network in Egypt
	509	Parallel Binary Sine Cosine with Optimal Priority List Algorithm for Unit Commitment
Allam, Sohir	533	OPTIMAL ALLOCATION OF A HYBRID RE/ESS FOR SUPPLYING EGYPTIAN DISTRIBUTION NETWORKS USING DISCRETE JAYA ALGORITHM
Alshareef, Abdulaziz	1015	Optimum Off-Grid PV System Sizing, Case of Study: Aswan Egypt
	852	Capacitor Voltage Ripple Reduction Modulation Method for String Photovoltaic Inverters
Aly, Mokhtar	1042	An Efficient Low-Cost Distributed MPPT Method for Energy Harvesting in Grid-Tied Three-Phase PV Power Optimizers
	1174	Advanced Multi-disciplinary Modelling of Lithium-Ion Batteries for Outdoor Applications
	360	An Efficient Analytical Technique for Optimal Sizing of DGs in RDS Considering Load Variation
Amin, Amal	982	Optimal Placement of Distribution Static Compensators in Radial Distribution Systems Using Hybrid Analytical-Coyote Optimization Technique
Amin, Amr M A	1031	Advanced Numerical Simulation Of Three-Phase Magnetic Shielding Superconducting Fault Current Limiter
Amin, Ayman A.	158	Proposed Open-Circuit Faults Detection Using Control Charts Technique
Amin, Khaled	473	Dynamic Analysis of Electromechanical Oscillations in Cascaded Induction Motors Driving Different Loads
Atallah, Ahmed M	53	Accurate Fault Diagnosis Technique for Series Parallel PV Array
Atia, Yousry	704	Experimental Realization for P&O Maximum Power Point Tracking Applied for Single-Stage Three-Phase Grid-Connected Photovoltaic System
Atiya, Eman	1074	Optimal Design of Low-cost and Reliable Hybrid Renewable Energy System Considering Grid Blackout

Attia, Mahmoud	496	Damping Inter-Area Oscillations Via Wiegthed Area Signals to PSSs Using TLBO & HS Algorithm
Awad, Hilmy	988	Optimization of the Dynamic Performance of a Photovoltaic-Wind Hybrid-Energy System using the Particle Swarm Technique
	1025	Hybrid PV/FC System Design and Simulation
Awad-Alla, Safaa	803	Effect of Wind Driven Double-Fed Induction Generator upon the Stability of decentralized power systems via Load Frequency Controllers design
Ayman Ali, Ahmed	324	Advanced Method for Optimal Allocation of FACTS Devices Using Line Stability Index Combined with Meta-Heuristic Optimization Techniques
Ayman, Mohamed	600	Robust PSSs Design via Generalized Kharitonov's Theorem
Ayoub, Mohamed	65	Solving Economic Load Dispatch Problem by Imperialist Competitive Algorithm
Aziz, Viola	307	Energy Efficient Lighting System
	125	Egyptian Power System Optimal Allocation of STATCOM Devices based on Particles Swarm Optimization Technique
Azmy, Ahmed	371	Model Predictive Control-based Optimal STATCOM Operation for Mitigating Voltage Sag in Electric Networks Comprising Large Wind Farms
	1162	AC Micro-Grid Flexible Simulation Utility for SCADA System Development
Azmy, Ahmed M.	1074	Optimal Design of Low-cost and Reliable Hybrid Renewable Energy System Considering Grid Blackout
	1193	Power Quality Investigation of Distribution Networks with High Penetration of Solar Energy
B		
Badr, Abdelatif	399	Optimal Management of Distribution Networks Regarding Reactive Power Generation
Badwi, Mohamed	639	A Modified Dissolved Gas Analysis Technique as a Diagnostic Tool for Faults in Power Transformers
Bahgat, Mohiy	265	Frequency Control in a Microgrid Using Decentralized Brain Emotional Learning Based Intelligent Controllers
Barakat, Mohamed	1112	Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System
Barakat, Shimaa	377	Hybrid Invasive Weed Optimization - Particle Swarm Optimization Algorithm for Biomass/PV Micro-grid Power System
Basuny, Mahmoud A. M.	761	Influence of Fault Locations on the Pipeline Induced Voltages Near to Power Transmission Lines
Besheer, Ahmad	89	Grey Wolf Algorithm as a Solution for Cascading Control Problem in Converter Based HVDC Energy Transmission System
	342	A Proposed Economical Based Approach for Optimal Sizing and Placement of Distributed Generation
Boghdady, T. A.	365	Optimal Allocation of Distributed Generation in A Part of The Egyptian Electrical Network Using Whale Optimization Algorithm
	946	Wind Energy Conversion System Oscillations Damping Using a Proposed Mutation Operator for LBBO-DE Algorithm
Bolognani, Silverio	250	Predictive Power Control for a Linearized Doubly Fed Induction Generator Model
	258	Explicit Predictive Voltage Control for an Induction Motor Drive
D		
	1204	Cascaded Multilevel Split-Source Inverters: Analysis and Modulation
Dabour, Sherif	1210	Common-Mode Voltage Reduction Algorithm with Minimum Switching Losses for Three-Phase Inverters
	1216	Open-Circuit Fault Detection of Asymmetrical Six-phase Induction Motor Fed from Z-Source Inverter
	1230	Carrier-based PWM Techniques for Current-fed Quasi-Z-Source Converters
Darwish, Mohamed M. F.	761	Influence of Fault Locations on the Pipeline Induced Voltages Near to Power Transmission Lines
Das, Debanvira	20	Optimal scheduling of an Islanded Microgrid with complex impedances considering load demand and renewable power uncertainties

Das, Deepriya	244	Improvement of the dynamic performance of an Islanded DC Microgrid using Optimized Virtual Inertia
Dawoud, Samir M.	1074	Optimal Design of Low-cost and Reliable Hybrid Renewable Energy System Considering Grid Blackout
Deghedie Erfan, Samir	556	Switched Capacitor Active Power Filter Optimization Using Nature-Inspired Techniques
Deghedie, Samir	453	Switched Capacitor Circuits in Power Systems: A Survey
Dessouky, Y.G.	1150	Designing a Magnetic Amplifier Used For DC Motor Speed Control
Diab, Ahmed A. Zaki	213	Evaluating Dynamic Performance of DTC Under Grid Disturbance for a Wind Driven DFIG
Diab, Mai	453	Switched Capacitor Circuits in Power Systems: A Survey
	556	Switched Capacitor Active Power Filter Optimization Using Nature-Inspired Techniques
Donkol, Ahmed	1112	Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System
Doso, Amara	509	Parallel Binary Sine Cosine with Optimal Priority List Algorithm for Unit Commitment
E		
E. A. El-Zahab, Essam	139	Optimal Switched Compensator for Vehicle-to-Grid Battery Chargers using Salp Optimization Algorithm
E. Bahgat, Mohiy	809	BELBIC Load Frequency Controller Design for a Hydro-Thermal Power System
E. Lashine, Azza	515	A Proposed Single-Stage Single-Phase Boost Inverter with a New MPPT Method
E. M. Mohamed, Essam	97	Improved Perturb and Observe MPPT Algorithm of Multi-Phase PMSG Based Wind Energy Conversion System
E. Bahgat, Mohiy	710	Advanced Control Techniques for an Interconnected Multi Area Power System for Load Frequency Control
Ebeed, Mohamed	406	Optimal Allocation of Hybrid Solar-Wind Distributed Generations in Distribution Networks Considering the Uncertainty Using Grasshopper Optimization Algorithm
	594	Moth Swarm Algorithm for Reactive Power Dispatch Considering Stochastic Nature of Renewable Energy Generation and Load
	748	Combined Economic and Emission Dispatch Analysis Using Lightning Attachment Procedure Optimizer
Eid, Ahmad	675	Power Loss Reduction using Adaptive PSO in Unbalanced Distribution Networks
Eissa, Ibrahim	441	Optimal Allocation of DGs and Capacitor Devices using Improved Grey Wolf Optimizer
El Rahhal, Hossam	1112	Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System
El Zoghby, Helmy	710	Advanced Control Techniques for an Interconnected Multi Area Power System for Load Frequency Control
El Zohri, Emad	704	Experimental Realization for P&O Maximum Power Point Tracking Applied for Single-Stage Three-Phase Grid-Connected Photovoltaic System
El-Adly, Refaat	71	Investigation of Insulating Oils in Presence of Impurities
El-Afifi, Magda	821	Communication technologies Requirement for Energy Hubs: A survey
El-Amary, Noha H.	650	Sliding Mode Control for Hybrid Power Sources Micro-grid
El-Arini, M. M.	131	Single and Multi-Objective Optimal Allocation of Multi-Type Distributed Generators in Radial Distribution Networks Using Water Cycle Algorithm
El-Ayaat, Nora	435	Multi-objective Binary Particle Swarm Optimization Algorithm for Optimal Distribution System reconfiguration
El-Azab, Rasha	189	Probabilistic Model of Utility Scale PV Plants
El-Banna, S.H.	1235	Model and Control of Naval Ship Power System by The Concept of All-Electric Ships Based on Renewable Energy.
El-Dabah, Mahmoud	1235	Model and Control of Naval Ship Power System by The Concept of All-Electric Ships Based on Renewable Energy.
El-Dessouki, Maher	473	Dynamic Analysis of Electromechanical Oscillations in Cascaded Induction Motors Driving Different Loads

El-Habrouk, Mohamed	271	Improved Indirect 3D Space Vector Modulation for Repetitive Controlled Four-Leg Matrix Converter
	550	Survey of Communication Techniques in Smart Grids
El-Hameed, M. A.	131	Single and Multi-Objective Optimal Allocation of Multi-Type Distributed Generators in Radial Distribution Networks Using Water Cycle Algorithm
El-Helw, Hadi M.	858	Enhanced Grey Wolf Optimization for GMPP Tracking of PV Systems Under Partial Shading Condition
El-Khattam, Walid	878	Cost and Shadow Price Minimization in Electrical Power Network
	383	Optimal sizing and locations of DG sources in distribution systems: A review of different techniques
El-Mohandes, Mohamed Th.	796	A GA-based method for computing MOF-weighting coefficients along with optimal location and sizing of DG sources in distribution systems
	1119	PSO based Protection Coordination and Power loss Minimization in Distribution Systems with DG Sources using Optimal Fault Current Limiters
El-Nagar, Mohammed	183	Split-Source Nine-Switch Inverter (SSNSI): Analysis and Modulation
El-Nemr, Mohamed	1162	AC Micro-Grid Flexible Simulation Utility for SCADA System Development
El-Nobi, A.	195	Improvement of Electrical Field Distribution on Non-Ceramic Insulators String Using Nanoparticles
El-Rafei, Ahmed	119	A Novel Reconfiguration Methodology of Radial Distribution Systems for Power Loss Minimization Using Expanded Invasive Weed Optimization
El-Saadawi, Magdi	821	Communication technologies Requirement for Energy Hubs: A survey
El-Sayed, M. G.	131	Single and Multi-Objective Optimal Allocation of Multi-Type Distributed Generators in Radial Distribution Networks Using Water Cycle Algorithm
El-Seheimy, Ragab	441	Optimal Allocation of DGs and Capacitor Devices using Improved Grey Wolf Optimizer
	435	Multi-objective Binary Particle Swarm Optimization Algorithm for Optimal Distribution System reconfiguration
El-Sehiemy, Ragab	465	Comprehensive Parametric Analysis of Single Tuned Filter in Distribution Systems
El-Sharaway, Latefa A.	858	Enhanced Grey Wolf Optimization for GMPP Tracking of PV Systems Under Partial Shading Condition
El-Sharkawy, Metwally	330	Damping Interarea Oscillations Using PID Power System Stabilizer With Grey Wolf Algorithm and Particle Swarm Algorithm
Eladl, Abdelfattah	821	Communication technologies Requirement for Energy Hubs: A survey
Elbehairy, Nourhan	840	Maximum Power Point Tracking For a Stand Alone PV System Under Shading Conditions Using Flower Pollination Algorithm
Eldebeikay, Soliman M.	866	An Intelligent Classifier of Electrical Discharges in Oil Immersed Power Transformers
	207	Effect of ZnO Nanoparticles on Impulse Breakdown Characteristics of Mineral Oil
Eldebeiky, Soliman	399	Optimal Management of Distribution Networks Regarding Reactive Power Generation
Elfaraskoury, Adel	639	A Modified Dissolved Gas Analysis Technique as a Diagnostic Tool for Faults in Power Transformers
Elgamal, Mohammed	484	Power Loss in SMES coil as influenced by its material
Elgayar, Mohamed	1145	Optimal Placement of Micro PMUs in Distribution Networks using A Graph Theory / Greedy Hybrid Algorithm
Elgebaly, Ahmed	1133	Optimized Design of Single Turn Transformer of Distributed Static Series Compensators using FEM based on GA
Elghazaly, Hany	742	Elimination of Zero Sequence Currents Effect on Differential Protection For Power Transformers Connected to Power Grid
	453	Switched Capacitor Circuits in Power Systems: A Survey
Elhabrouk, Mohamed	556	Switched Capacitor Active Power Filter Optimization Using Nature-Inspired Techniques
Elkadeem, M.R.	1074	Optimal Design of Low-cost and Reliable Hybrid Renewable Energy System Considering Grid Blackout
Elkalashy, Nagy	952	Autonomous Backup Selectivity Technique for line- to-Ground Faults in Automated Distribution Networks

Elkhodary, Salem M.	1053	Electrical Tracking and Erosion of Silicone Rubber Filled with Alumina Tri-Hydrate
	988	Optimization of the Dynamic Performance of a Photovoltaic-Wind Hybrid-Energy System using the Particle Swarm Technique
Elkholy, E.E.	1025	Hybrid PV/FC System Design and Simulation
Elkoshairy, Ahmed	473	Dynamic Analysis of Electromechanical Oscillations in Cascaded Induction Motors Driving Different Loads
Elmelegi, Ahmed	1042	An Efficient Low-Cost Distributed MPPT Method for Energy Harvesting in Grid-Tied Three-Phase PV Power Optimizers
Elmitwally, Akram	1036	Coordination Preservation of Directional Overcurrent Relays in a Multiple-Topology Network with Distributed Generations by Fault Current Limiters
Elmorshedy, Ahdab	724	Field Profiles Underneath and Between Proposed Hybrid Power Lines in Egyptian Grid
Elnozahy, Ahmed	484	Power Loss in SMES coil as influenced by its material
Elsaady, Gaber	803	Effect of Wind Driven Double-Fed Induction Generator upon the Stability of decentralized power systems via Load Frequency Controllers design
Elsadd, Mahmoud	952	Autonomous Backup Selectivity Technique for line- to-Ground Faults in Automated Distribution Networks
Elsamahy, Adel	295	Wind Farm Relay Protection for a Wind Farm based on directional algorithm and positive sequence fault current components with and without fiber optic backbone
Elsayed, Ibrahim	583	OPTIMIZATION AND STABILITY ANALYSIS OF OFFSHORE HYBRID RENEWABLE ENERGY SYSTEMS
Elserougi, Ahmed	183	Split-Source Nine-Switch Inverter (SSNSI): Analysis and Modulation
Elshahed, Mostafa	681	Impacts of Distributed and Centralized Grid-Connected PV on Radial Distribution Networks
Elsherbiny, Mohamed	754	Technical and Economical Feasibility of Proposed Assiut University Rooftop PhotoVoltaic Installation
Eltohamy, Mohamed	768	Analyzing wind power ramps for high penetration of variable renewable generation
	125	Egyptian Power System Optimal Allocation of STATCOM Devices based on Particles Swarm Optimization Technique
	371	Model Predictive Control-based Optimal STATCOM Operation for Mitigating Voltage Sag in Electric Networks Comprising Large Wind Farms
Emam, Ahmed	724	Field Profiles Underneath and Between Proposed Hybrid Power Lines in Egyptian Grid
	742	Elimination of Zero Sequence Currents Effect on Differential Protection For Power Transformers Connected to Power Grid
Erfan, Samir Deghedie	271	Improved Indirect 3D Space Vector Modulation for Repetitive Controlled Four-Leg Matrix Converter
Eteiba, M.B.	958	Optimization of Voltage Source Inverter's Controllers Using Salp Swarm Algorithm in Grid Connected PV System
	283	Reliability Enhancement in Distribution Systems Through Distributed Generator and Capacitor Allocation Using Flower Pollination Algorithm
Ezzat, M.	575	Harris Hawks Algorithm for Automatic Generation Control of Interconnected Power Systems
Ezzat, Mohamad	447	Combined Power and Attitude Control System for Low Earth Orbit Satellites
F		
F. Ibrahim, Nagwa	311	Control Strategies for VSC based HVDC during Grid Faults: A comparative study of selection criteria of Currents Reference
F. Moussa, Mona	1150	Designing a Magnetic Amplifier Used For DC Motor Speed Control
Farahat, Khairy	645	Coupled Finite Element-Circuit Modelling and Parameter Estimation Of Six-Phase Induction Motor
	226	High-Precision Sensorless Predictive Control of Salient-Pole Permanent Magnet Synchronous Motor based-on Extended Kalman Filter
Farhan, Ahmed	692	Encoderless Finite Control Set Predictive Current Control of Synchronous Reluctance Motor
	976	Direct Sensorless Model Predictive Control of Induction Motor for Three-Level NPC Inverter based on Extended Kalman Filter
Farid, Hussein	1186	Improved Speed Sensor-Less Dynamic Performance of A Five-Phase Induction Motors Drive Based Wiener Filter

Farrag, Dr. Mohamed	521	On-line Condition Monitoring of Power Transformer Health Status Enforced by Temperature and Electrical Signatures
Fawzi, M.	311	Control Strategies for VSC based HVDC during Grid Faults: A comparative study of selection criteria of Currents Reference
Fawzy Rashwan, Asmaa	633	An Indirect Self-Tuning Speed Controller Design for DC Motor Using A RLS Principle
Fayek, Hady H.	1223	Secondary Voltage Control of a Multi-region Power System
Fetouh, Tamer	846	Optimal Allocation of Reactive Power Compensation in a Distribution Network with Photovoltaic System Integration
	939	Partial Swarm Optimization Tuning Based Controlled Series FACTS for Power System Stability Enhancement
Fetyan, Khaled	465	Comprehensive Parametric Analysis of Single Tuned Filter in Distribution Systems
Fouad Mekhamer, Said	232	Optimal Power Flow of Power Systems Using Hybrid Firefly and Particle Swarm Optimization Algorithm
G		
G. Abo-Khalil, Ahmed	736	Energy Management and Control Strategy of DC Microgrid Including Multiple Energy Storage Systems
G. Boktor, Christeen	1000	Optimal DG Allocation in Radial Distribution Networks Using a Combined Approach Consisting Particle Swarm Optimization, Grey Wolf Optimizer and Loss Sensitivity Factor
Gaber, Mohab	1235	Model and Control of Naval Ship Power System by The Concept of All-Electric Ships Based on Renewable Energy.
Gad, Ahmed	207	Effect of ZnO Nanoparticles on Impulse Breakdown Characteristics of Mineral Oil
Gad, Ahmed H.	866	An Intelligent Classifier of Electrical Discharges in Oil Immersed Power Transformers
	1053	Electrical Tracking and Erosion of Silicone Rubber Filled with Alumina Tri-Hydrate
Gamal Elsheikh, Maha	1174	Advanced Multi-disciplinary Modelling of Lithium-Ion Batteries for Outdoor Applications
Ghanem, Abdelhady	423	Frequency Stability in Weak Grids Using Independent Electric Vehicle
	1089	Mitigation of DC Wind Farm Power Fluctuations Based Battery Energy Storage System
Ghoneim, Sherif	71	Investigation of Insulating Oils in Presence of Impurities
	76	A Decision Transformer Fault Diagnostics System Based on Dissolved Gas Analysis
Gilany, Mahmoud	392	Electric Spring Technology in Small Scale Residential Microgrid
Gouda, Dr.Mohamed	521	On-line Condition Monitoring of Power Transformer Health Status Enforced by Temperature and Electrical Signatures
Gouda, Eid	1036	Coordination Preservation of Directional Overcurrent Relays in a Multiple-Topology Network with Distributed Generations by Fault Current Limiters
H		
H. A. Elkasem, Ahmed	568	Application of Harris Hawks Algorithm for Frequency Response Enhancement of Two-Area Interconnected Power System with DFIG Based Wind Turbine
H. Abdalla, Omar	1	Generation Expansion Planning Considering High Share Renewable Energies Uncertainty
H. Awad, Fathy	627	An Unbalance Mitigation Method based on 3D-SVPWM for Four-Wire Three-Leg Mid Capacitor Point Inverter
H. E. Abdel Aleem, Shady	119	A Novel Reconfiguration Methodology of Radial Distribution Systems for Power Loss Minimization Using Expanded Invasive Weed Optimization
	139	Optimal Switched Compensator for Vehicle-to-Grid Battery Chargers using Salp Optimization Algorithm
H. H. Mousa, Hossam	97	Improved Perturb and Observe MPPT Algorithm of Multi-Phase PMSG Based Wind Energy Conversion System
	884	Comparison Between Outer Crowbar and RSFCL for LVRT Capability Enhancement of Wind Turbines Conversion System
H. Kasem Alaboudy, Ali	1006	Power Quality Issues of Grid Connected Wind Energy System Focus on DFIG and Various Control Techniques of Active Harmonic Filter: A review
	1119	PSO based Protection Coordination and Power loss Minimization in Distribution Systems with DG Sources using Optimal Fault Current Limiters

H. Saad, Naggar	103	Application of a Combined System Between Perturb and Observe Method and Incremental Conductance Technique for MPPT in PV Systems
	716	A Comparative Study Between Perturb and Observe and Cuckoo Search Algorithm for Maximum Power Point Tracking
H. Yakout, Ahmed	1068	Over Frequency Problem Mitigation Using Grasshopper Based PID Auxiliary Governors
H. Youssef, Karim	1139	Model Predictive Control of Three-Phase Electric Springs with Multiple Control Functions and Fixed Switching Frequency
Hafez, Ahmed	316	Synergy of Bacterial Foraging Algorithm and Particle Swarm Optimization for Secure Power System Operation
	754	Technical and Economical Feasibility of Proposed Assiut University Rooftop PhotoVoltaic Installation
Hamad, M.S.	1235	Model and Control of Naval Ship Power System by The Concept of All-Electric Ships Based on Renewable Energy.
Hamed, Hesham	1112	Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System
Hammad, Rania	1216	Open-Circuit Fault Detection of Asymmetrical Six-phase Induction Motor Fed from Z-Source Inverter
Hamouda, M.	59	Comparative Study of Different Drive Controller for a Traction System
Hamouda, Rizk	473	Dynamic Analysis of Electromechanical Oscillations in Cascaded Induction Motors Driving Different Loads
Hasan, S.	1095	A New Analytical Approach of Cost Benefit Analysis for Automated Medium Voltage Closed Ring Distribution Networks
	1156	Finite Element Model Of A Novel Three-Phase Inductive Saturated-Core Fault Current Limiter
Hasanien, Hany	89	Grey Wolf Algorithm as a Solution for Cascading Control Problem in Converter Based HVDC Energy Transmission System
Hasanien, Hany M.	575	Harris Hawks Algorithm for Automatic Generation Control of Interconnected Power Systems
	858	Enhanced Grey Wolf Optimization for GMPP Tracking of PV Systems Under Partial Shading Condition
Hassan Mohamed, Tarek	589	ESO-Based Self Tuning Frequency Control Design for Isolated Microgrid System
Hassan Yakout, Ahmed	330	Damping Interarea Oscillations Using PID Power System Stabilizer With Grey Wolf Algorithm and Particle Swarm Algorithm
Hassan, Abd El-Wahab	540	Mathematical Analysis of the Small Signal Model for Voltage-Source Inverter in SPMSM Drive Systems
Hassan, Heba Ahmed	277	MVO Algorithm for Optimal Simultaneous Integration of DG and DSTATCOM in a Practical Radial Distribution System Based on Technical-Economic Indices
Hassan, Mostafa	828	Day-Ahead Optimal Scheduling for Grid-Connected Microgrid with Energy Storage Systems
Hassan, Mostafa M.	1156	Finite Element Model Of A Novel Three-Phase Inductive Saturated-Core Fault Current Limiter
Hassan, Moustafa	921	MITIGATION OF ELECTRIC VEHICLE DISTORTION IMPACT ON DISTRIBUTION NETWORKS
Hassan, Nagar	447	Combined Power and Attitude Control System for Low Earth Orbit Satellites
Hassan, Youssef	1015	Optimum Off-Grid PV System Sizing, Case of Study: Aswan Egypt
Hegazy, Hosam	988	Optimization of the Dynamic Performance of a Photovoltaic-Wind Hybrid-Energy System using the Particle Swarm Technique
	1025	Hybrid PV/FC System Design and Simulation
Helmy, Tamer	453	Switched Capacitor Circuits in Power Systems: A Survey
	556	Switched Capacitor Active Power Filter Optimization Using Nature-Inspired Techniques
Hendawi, Essam	220	Analysis, Simulation and Comparison between H6 Transformer-less Inverter Topologies
Henry, Hany	65	Solving Economic Load Dispatch Problem by Imperialist Competitive Algorithm
Holiel, Mohamed	1139	Model Predictive Control of Three-Phase Electric Springs with Multiple Control Functions and Fixed Switching Frequency
Hossam Khader, Ahmed	330	Damping Interarea Oscillations Using PID Power System Stabilizer With Grey Wolf Algorithm and Particle Swarm Algorithm

Hossam-Eldin, Ahmed	183	Split-Source Nine-Switch Inverter (SSNSI): Analysis and Modulation
Hussien, Mohamed G.	540	Mathematical Analysis of the Small Signal Model for Voltage-Source Inverter in SPMSM Drive Systems
I		
I. Elkalashy, Nagy	502	Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study
	890	Multi-Function Protection Scheme for HVDC Transmission Systems
I. M. Ali, Ahmed	170	A Study of Level- Shifted PWM Single-phase 11-Level Multilevel Inverter
	301	A Control Strategy for Hybrid Islanded Microgrid
I. Marei, Mostafa	627	An Unbalance Mitigation Method based on 3D-SVPWM for Four-Wire Three-Leg Mid Capacitor Point Inverter
	1168	Seamless Control for a PV System During Transitions Between Grid Connection And Standalone Operation
I. Omar, Ahmed	139	Optimal Switched Compensator for Vehicle-to-Grid Battery Chargers using Salp Optimization Algorithm
I. Taalab, Abdel-Maksoud	502	Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study
	890	Multi-Function Protection Scheme for HVDC Transmission Systems
I.Marei, Mostafa	1057	Active Filter Based on Four -Leg Inverter and PQ Theory
Ibraheem, M. R	491	A Novel Busbar Protection Based On Correlation Technique
Ibrahim, Haytham	1193	Power Quality Investigation of Distribution Networks with High Penetration of Solar Energy
Ibrahiim, Alnobi	803	Effect of Wind Driven Double-Fed Induction Generator upon the Stability of decentralized power systems via Load Frequency Controllers design
	34	Performance Investigation for Tracking GMPP of Photovoltaic System under Partial Shading Condition using Coyote Algorithm
Ibrahim, Amr M.	111	Design and Analysis of DC-DC Converters with MPPT Controller based on Salp Swarm Algorithm for a Grid-Connected PV System
Ibrahim, Asmaa	207	Effect of ZnO Nanoparticles on Impulse Breakdown Characteristics of Mineral Oil
Ismail, Ahmed	447	Combined Power and Attitude Control System for Low Earth Orbit Satellites
	742	Elimination of Zero Sequence Currents Effect on Differential Protection For Power Transformers Connected to Power Grid
Ismail, Islam	1089	Mitigation of DC Wind Farm Power Fluctuations Based Battery Energy Storage System
	8	High Dynamic Performance for Split-Source Inverter based on Finite Control Set Model Predictive Control
Ismeil, Mohamed	478	Model Predictive Control Of Quasi Y-Source Inverter
	1015	Optimum Off-Grid PV System Sizing, Case of Study: Aswan Egypt
Issam A.Elrefaei Ali, Mohamed	202	Adaptive Load Frequency Control Based on Dynamic Jaya Optimization Algorithm of Power System with Renewable Energy Integration
J		
Jain, Alok	20	Optimal scheduling of an Islanded Microgrid with complex impedances considering load demand and renewable power uncertainties
	244	Improvement of the dynamic performance of an Islanded DC Microgrid using Optimized Virtual Inertia
	411	Series FACTS Devices for Maximization of Loadability and Minimization of Fuel Cost
	568	Application of Harris Hawks Algorithm for Frequency Response Enhancement of Two-Area Interconnected Power System with DFIG Based Wind Turbine
Jurado, Francisco	970	Developed Algorithm Based on Lightning Search Optimizer and Analytical Technique for Allocation of Distribution Generators
	1048	Optimal Placement of Phasor Measurement Units for State Estimation of Electrical Power Systems

	1063	Optimal Coordination of Overcurrent Relay Using Metaphor-less Simple Method
K		
K. El-Aser, Mohamed	189	Probabilistic Model of Utility Scale PV Plants
K. Tamazin, Ahmed	1107	IoT-Based Power Management for DC Microgrids
Kaddah, Sahar	423	Frequency Stability in Weak Grids Using Independent Electric Vehicle
Kahia, Billel	976	Direct Sensorless Model Predictive Control of Induction Motor for Three-Level NPC Inverter based on Extended Kalman Filter
Kamal, Mohamed	872	Enhanced Two-Fault Point Multi-Objective Coordination Scheme for Directional Overcurrent Relays in Meshed Distribution Networks Considering Fault Severity
	939	Partial Swarm Optimization Tuning Based Controlled Series FACTS for Power System Stability Enhancement
Kamel, Farag	704	Experimental Realization for P&O Maximum Power Point Tracking Applied for Single-Stage Three-Phase Grid-Connected Photovoltaic System
Kamel, Omar Makram	213	Evaluating Dynamic Performance of DTC Under Grid Disturbance for a Wind Driven DFIG
	258	Explicit Predictive Voltage Control for an Induction Motor Drive
	354	Minimizing Power Loss and Improving Voltage Stability in Distribution System Through Optimal Allocation of Distributed Generation Using Electrostatic Discharge Algorithm
	360	An Efficient Analytical Technique for Optimal Sizing of DGs in RDS Considering Load Variation
	406	Optimal Allocation of Hybrid Solar-Wind Distributed Generations in Distribution Networks Considering the Uncertainty Using Grasshopper Optimization Algorithm
	411	Series FACTS Devices for Maximization of Loadability and Minimization of Fuel Cost
	568	Application of Harris Hawks Algorithm for Frequency Response Enhancement of Two-Area Interconnected Power System with DFIG Based Wind Turbine
	594	Moth Swarm Algorithm for Reactive Power Dispatch Considering Stochastic Nature of Renewable Energy Generation and Load
Kamel, Salah	662	Adequate Crowbar for Enhancing the Performance of Squirrel Cage Induction Generators Wind Farms
	687	Simultaneous Allocation of Multiple Distributed Generation Units in Distribution Networks Using Chaotic Grasshopper Optimization Algorithm
	748	Combined Economic and Emission Dispatch Analysis Using Lightning Attachment Procedure Optimizer
	970	Developed Algorithm Based on Lightning Search Optimizer and Analytical Technique for Allocation of Distribution Generators
	982	Optimal Placement of Distribution Static Compensators in Radial Distribution Systems Using Hybrid Analytical-Coyote Optimization Technique
	1000	Optimal DG Allocation in Radial Distribution Networks Using a Combined Approach Consisting Particle Swarm Optimization, Grey Wolf Optimizer and Loss Sensitivity Factor
	1048	Optimal Placement of Phasor Measurement Units for State Estimation of Electrical Power Systems
	1063	Optimal Coordination of Overcurrent Relay Using Metaphor-less Simple Method
Kassem, Ahmed	1081	Energy Efficient Control Scheme of Induction Motor Based EV
Kassem, Rasha	1081	Energy Efficient Control Scheme of Induction Motor Based EV
Kawady, Tamer	952	Autonomous Backup Selectivity Technique for line- to-Ground Faults in Automated Distribution Networks
	226	High-Precision Sensorless Predictive Control of Salient-Pole Permanent Magnet Synchronous Motor based-on Extended Kalman Filter
Kennel, Ralph	692	Encoderless Finite Control Set Predictive Current Control of Synchronous Reluctance Motor
	976	Direct Sensorless Model Predictive Control of Induction Motor for Three-Level NPC Inverter based on Extended Kalman Filter
Khalaf, Hesham	710	Advanced Control Techniques for an Interconnected Multi Area Power System for Load Frequency Control
Khalid H. Ibrahim,	908	Modeling, Simulation and Classification of Power Transformer Faults Based on FRA Test

Khalil Ibrahim, Doaa	392	Electric Spring Technology in Small Scale Residential Microgrid
	790	Sharm El-Sheikh 5 MW PV Plant Performance, Environmental Impact and Grid Connection Parameters
	289	Improving Energy Efficiency in Egyptian Airports: A Case Study of Sharm-Elshiekh Airport
Khalil, Doaa	621	Coils design and parallel resonant H-bridge inverter for inductive power transfer to recharge low-power portable devices
	681	Impacts of Distributed and Centralized Grid-Connected PV on Radial Distribution Networks
Khasanov, Mansur	872	Enhanced Two-Fault Point Multi-Objective Coordination Scheme for Directional Overcurrent Relays in Meshed Distribution Networks Considering Fault Severity
	354	Minimizing Power Loss and Improving Voltage Stability in Distribution System Through Optimal Allocation of Distributed Generation Using Electrostatic Discharge Algorithm
	687	Simultaneous Allocation of Multiple Distributed Generation Units in Distribution Networks Using Chaotic Grasshopper Optimization Algorithm
Khattab, Heba Abdel-Hamid	527	Impacts of Renewable Energy Sources Allocation in Distribution Networks
Korashy, Ahmed	568	Application of Harris Hawks Algorithm for Frequency Response Enhancement of Two-Area Interconnected Power System with DFIG Based Wind Turbine
Kouro, Samir	852	Capacitor Voltage Ripple Reduction Modulation Method for String Photovoltaic Inverters
L		
Lubbad, Mohammed M.	650	Sliding Mode Control for Hybrid Power Sources Micro-grid
M		
M. Abd El-Gawad, Ahmed	809	BELBIC Load Frequency Controller Design for a Hydro-Thermal Power System
M. Abdel-Salam, Mazen	1119	PSO based Protection Coordination and Power loss Minimization in Distribution Systems with DG Sources using Optimal Fault Current Limiters
M. Abdella, Mahmoud	459	Enhancement of Voltage Profile in Power Systems by Using Genetic Algorithm
M. Ahmed, Emad	852	Capacitor Voltage Ripple Reduction Modulation Method for String Photovoltaic Inverters
M. Alhaider, Mohammed	1042	An Efficient Low-Cost Distributed MPPT Method for Energy Harvesting in Grid-Tied Three-Phase PV Power Optimizers
	145	Composite Material's Flashover Voltage Estimation Experimentally/Numerically
M. Ali, Ziad	1174	Advanced Multi-disciplinary Modelling of Lithium-Ion Batteries for Outdoor Applications
	776	Performance Analysis and Enhancement of a PV Fed Sensorless BLDC-Motor for an Efficient Water-Pumping System
M. Allam, Said	1127	A Comprehensive Analysis and Control of DVR Operating Modes for Grid-Voltage Compensation
	1180	Current Vector Control Techniques of Five-Phase Synchronous Reluctance Motor Drive Systems
M. Allam, Sohair	846	Optimal Allocation of Reactive Power Compensation in a Distribution Network with Photovoltaic System Integration
M. Aly, Abdelmaged	736	Energy Management and Control Strategy of DC Microgrid Including Multiple Energy Storage Systems
M. Aly, Mohamed	360	An Efficient Analytical Technique for Optimal Sizing of DGs in RDS Considering Load Variation
M. Arafa, Osama	1168	Seamless Control for a PV System During Transitions Between Grid Connection And Standalone Operation
M. Atallah, Ahmed	1101	Various Communication Technologies Used in Smart Grid
	170	A Study of Level- Shifted PWM Single-phase 11-Level Multilevel Inverter
M. Azmy, Ahmed	784	A day-ahead optimal RERs scheduling approach for virtual power plants considering different loading conditions
	884	Comparison Between Outer Crowbar and RSFCL for LVRT Capability Enhancement of Wind Turbines Conversion System
	1127	A Comprehensive Analysis and Control of DVR Operating Modes for Grid-Voltage Compensation

M. El-Khayat, Mohamed	502	Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study
M. El-Sotouhy, Mohamed	1057	Active Filter Based on Four -Leg Inverter and PQ Theory
M. Elsayed, Abdallah	562	Capacitor Switching with Distribution System Reconfiguration and Load Variations: Practical Case Study using ETAP and Network Analyzer
M. Fadel, Aliaa	1107	IoT-Based Power Management for DC Microgrids
M. Hasanien, Hany	1068	Over Frequency Problem Mitigation Using Grasshopper Based PID Auxiliary Governors
M. Hussein, Mahmoud	589	ESO-Based Self Tuning Frequency Control Design for Isolated Microgrid System
M. Ibrahim, Andrew	1107	IoT-Based Power Management for DC Microgrids
M. Ismaeel, Sara	1180	Current Vector Control Techniques of Five-Phase Synchronous Reluctance Motor Drive Systems
M. Kassem, Ahmed	736	Energy Management and Control Strategy of DC Microgrid Including Multiple Energy Storage Systems
M. Kassem, Ibrahim	933	Influence of using Intermittent Renewable Energy Sources on The Power System Operation
M. Mansour, Atef	1168	Seamless Control for a PV System During Transitions Between Grid Connection And Standalone Operation
M. Mosaed, Ismail	1095	A New Analytical Approach of Cost Benefit Analysis for Automated Medium Voltage Closed Ring Distribution Networks
M. Rashad, Essam	1180	Current Vector Control Techniques of Five-Phase Synchronous Reluctance Motor Drive Systems
M. Salem, Osama	515	A Proposed Single-Stage Single-Phase Boost Inverter with a New MPPT Method
M. Shaheen, Abdullah	562	Capacitor Switching with Distribution System Reconfiguration and Load Variations: Practical Case Study using ETAP and Network Analyzer
M. Sharaf, Adel	139	Optimal Switched Compensator for Vehicle-to-Grid Battery Chargers using Salp Optimization Algorithm
M. Yousef, Ali	383	Optimal sizing and locations of DG sources in distribution systems: A review of different techniques
	796	A GA-based method for computing MOF-weighting coefficients along with optimal location and sizing of DG sources in distribution systems
M. Zaki, Aziza	1057	Active Filter Based on Four -Leg Inverter and PQ Theory
M.A., Abdel-Moamen	195	Improvement of Electrical Field Distribution on Non-Ceramic Insulators String Using Nanoparticles
M.M.Hassan, Alaaeldien	170	A Study of Level- Shifted PWM Single-phase 11-Level Multilevel Inverter
Magdy B. Eteiba,	608	Self-Mitigation of Magnetic Field near Overhead Power Lines Using Evolutionary Algorithms
Magdy, Amr	399	Optimal Management of Distribution Networks Regarding Reactive Power Generation
Magdy, Mostafa	681	Impacts of Distributed and Centralized Grid-Connected PV on Radial Distribution Networks
Mahmoud Samy, Mohamed	1020	Safe Grounding Grid Design for Converter Station
Mahmoud, Ibrahim	896	Tuned Hyper Reconfiguration Analysis Applying Plant Growth Algorithm
Mahmoud, Lubna	914	A PSO-based Multi-objective Method for Optimal Weight Factors, Placement and Sizing of Multiple DG Units in a Distribution System
Mansour, Ahmed	621	Coils design and parallel resonant H-bridge inverter for inductive power transfer to recharge low-power portable devices
	151	Performance of a Single-Stage Buck-Boost Inverter Fed from a Photovoltaic Source Under Different Meteorological Conditions
Mansour, Arafa S.	158	Proposed Open-Circuit Faults Detection Using Control Charts Technique
Mansour, Diaa	76	A Decision Transformer Fault Diagnostics System Based on Dissolved Gas Analysis
Mansour, Diaa-Eldin	1230	Carrier-based PWM Techniques for Current-fed Quasi-Z-Source Converters
	337	Power Differential Protection for Transmission Lines with Superconducting Fault Current Limiters

Mansour, Diao-Eldin A.	1031	Advanced Numerical Simulation Of Three-Phase Magnetic Shielding Superconducting Fault Current Limiter
	1199	The Effect of Surface Modification of Titania Nanoparticles on the Dielectric Properties of Nanofluids
Marrouchi, Sahbi	970	Developed Algorithm Based on Lightning Search Optimizer and Analytical Technique for Allocation of Distribution Generators
Maulik, Avirup	20	Optimal scheduling of an Islanded Microgrid with complex impedances considering load demand and renewable power uncertainties
	244	Improvement of the dynamic performance of an Islanded DC Microgrid using Optimized Virtual Inertia
Megahid, Mennatallah	994	Optimal Allocation for Photovoltaic / Wind Turbine Applying A Hybrid Butterfly Genetic Algorithm
Mekhamer, Said	768	Analyzing wind power ramps for high penetration of variable renewable generation
Mohamed Abdel-Ghany, Abdel-Ghany	265	Frequency Control in a Microgrid Using Decentralized Brain Emotional Learning Based Intelligent Controllers
Mohamed Diaaeldin, Ibrahim	119	A Novel Reconfiguration Methodology of Radial Distribution Systems for Power Loss Minimization Using Expanded Invasive Weed Optimization
Mohamed Emam, Ahmed	1020	Safe Grounding Grid Design for Converter Station
Mohamed Hasanien, Hany	232	Optimal Power Flow of Power Systems Using Hybrid Firefly and Particle Swarm Optimization Algorithm
Mohamed Kamel El-Morshedyel-Morshedy, Ahdab	1020	Safe Grounding Grid Design for Converter Station
Mohamed, Abdallah	265	Frequency Control in a Microgrid Using Decentralized Brain Emotional Learning Based Intelligent Controllers
Mohamed, Abdullah	295	Wind Farm Relay Protection for a Wind Farm based on directional algorithm and positive sequence fault current components with and without fiber optic backbone
Mohamed, Sayed	301	A Control Strategy for Hybrid Islanded Microgrid
Mohamed, Yahia S.	667	Voltage Source Converter Control and Stability Analysis for VSC-HVDC System with High DC-Link Impedance
Mohammed, Heba	958	Optimization of Voltage Source Inverter's Controllers Using Salp Swarm Algorithm in Grid Connected PV System
Mohammed, S.M	491	A Novel Busbar Protection Based On Correlation Technique
Mokhtar, Mohamed	301	A Control Strategy for Hybrid Islanded Microgrid
	213	Evaluating Dynamic Performance of DTC Under Grid Disturbance for a Wind Driven DFIG
Mossa, Mahmoud A.	250	Predictive Power Control for a Linearized Doubly Fed Induction Generator Model
	258	Explicit Predictive Voltage Control for an Induction Motor Drive
Mostafa Hassan, Ammar	964	Disturbance Estimation and Compensation for High-Precision Point-to-Point Motion Control
Mostafa, Azza	698	Technical Overview of Connecting Small Scale Photovoltaic Systems in Egypt
	34	Performance Investigation for Tracking GMPP of Photovoltaic System under Partial Shading Condition using Coyote Algorithm
Mostafa, Hazem H.	111	Design and Analysis of DC-DC Converters with MPPT Controller based on Salp Swarm Algorithm for a Grid-Connected PV System
Mostafa, Ramadan	1081	Energy Efficient Control Scheme of Induction Motor Based EV
Mousa, Sabry	295	Wind Farm Relay Protection for a Wind Farm based on directional algorithm and positive sequence fault current components with and without fiber optic backbone
Mouwafi, Mohamed	238	Optimal Transmission System Expansion Planning Via Binary Bat Algorithm
N		
N. Ali, Mahmoud	933	Influence of using Intermittent Renewable Energy Sources on The Power System Operation
Nabil, Beshoy	656	Active Voltage Control in Distribution Networks including Distributed Generations using Hardware-In-The-Loop Technique
Nabil, Mohamed	921	MITIGATION OF ELECTRIC VEHICLE DISTORTION IMPACT ON DISTRIBUTION NETWORKS

Nagem, N. A.	815	Optimal Assessment of Hybrid Wind Energy with Fuel Cell for Supplying Distribution Network in Egypt
Nasef, Asmaa Fared	527	Impacts of Renewable Energy Sources Allocation in Distribution Networks
	207	Effect of ZnO Nanoparticles on Impulse Breakdown Characteristics of Mineral Oil
	406	Optimal Allocation of Hybrid Solar-Wind Distributed Generations in Distribution Networks Considering the Uncertainty Using Grasshopper Optimization Algorithm
Nasrat, Loai	594	Moth Swarm Algorithm for Reactive Power Dispatch Considering Stochastic Nature of Renewable Energy Generation and Load
	687	Simultaneous Allocation of Multiple Distributed Generation Units in Distribution Networks Using Chaotic Grasshopper Optimization Algorithm
	982	Optimal Placement of Distribution Static Compensators in Radial Distribution Systems Using Hybrid Analytical-Coyote Optimization Technique
Nassar, Ibrahim	583	OPTIMIZATION AND STABILITY ANALYSIS OF OFFSHORE HYBRID RENEWABLE ENERGY SYSTEMS
Nazih, Nathalie	878	Cost and Shadow Price Minimization in Electrical Power Network
Nour Eldeen, Alaa	809	BELBIC Load Frequency Controller Design for a Hydro-Thermal Power System
O		
Omran, Mohamed	307	Energy Efficient Lighting System
Omran, Walid	768	Analyzing wind power ramps for high penetration of variable renewable generation
	478	Model Predictive Control Of Quasi Y-Source Inverter
Orabi, Mohamed	1015	Optimum Off-Grid PV System Sizing, Case of Study: Aswan Egypt
Orabi, Mohammed	614	Eight-switch Converter using PMSG Based WECS for Stand-alone Applications
Osama, Ahmed	608	Self-Mitigation of Magnetic Field near Overhead Power Lines Using Evolutionary Algorithms
	151	Performance of a Single-Stage Buck-Boost Inverter Fed from a Photovoltaic Source Under Different Meteorological Conditions
Osheba, Dina S. M.	527	Impacts of Renewable Energy Sources Allocation in Distribution Networks
Osheba, S. M.	527	Impacts of Renewable Energy Sources Allocation in Distribution Networks
R		
	47	Combined Economic Emission Dispatch Solution of an Isolated Renewable Integrated Micro-Grid using Crow Search Algorithm
R. Spea, Shaimaa	927	Design, Sizing and Performance Analysis of Stand-Alone PV System using PVSyst Software for a Location in Egypt
Rabie, Afaf	423	Frequency Stability in Weak Grids Using Independent Electric Vehicle
Rabie, Dalia	667	Voltage Source Converter Control and Stability Analysis for VSC-HVDC System with High DC-Link Impedance
Ragab, Howaida M.	946	Wind Energy Conversion System Oscillations Damping Using a Proposed Mutation Operator for LBBO-DE Algorithm
Ramadan, Ashraf	406	Optimal Allocation of Hybrid Solar-Wind Distributed Generations in Distribution Networks Considering the Uncertainty Using Grasshopper Optimization Algorithm
	383	Optimal sizing and locations of DG sources in distribution systems: A review of different techniques
Ramadan, Reham	796	A GA-based method for computing MOF-weighting coefficients along with optimal location and sizing of DG sources in distribution systems
Rashad, Ahmed	662	Adequate Crowbar for Enhancing the Performance of Squirrel Cage Induction Generators Wind Farms
	125	Egyptian Power System Optimal Allocation of STATCOM Devices based on Particles Swarm Optimization Technique
	371	Model Predictive Control-based Optimal STATCOM Operation for Mitigating Voltage Sag in Electric Networks Comprising Large Wind Farms
	1204	Cascaded Multilevel Split-Source Inverters: Analysis and Modulation
Rashad, Fesam		

Rashad, Essam	1210	Common-Mode Voltage Reduction Algorithm with Minimum Switching Losses for Three-Phase Inverters
	1216	Open-Circuit Fault Detection of Asymmetrical Six-phase Induction Motor Fed from Z-Source Inverter
	1230	Carrier-based PWM Techniques for Current-fed Quasi-Z-Source Converters
Rashad, Essam Eddin M.	834	A Wide Component Sizing and Performance Assessment of Electric Drivetrains for Electric Vehicles
Refai, Ahmed	748	Combined Economic and Emission Dispatch Analysis Using Lightning Attachment Procedure Optimizer
Rihan, Mahmoud	662	Adequate Crowbar for Enhancing the Performance of Squirrel Cage Induction Generators Wind Farms
Rizk, Mohammad	1089	Mitigation of DC Wind Farm Power Fluctuations Based Battery Energy Storage System
	509	Parallel Binary Sine Cosine with Optimal Priority List Algorithm for Unit Commitment
Rizk-Allah, Rizk	533	OPTIMAL ALLOCATION OF A HYBRID RE/ESS FOR SUPPLYING EGYPTIAN DISTRIBUTION NETWORKS USING DISCRETE JAYA ALGORITHM
Ryad, Ahmed K	53	Accurate Fault Diagnosis Technique for Series Parallel PV Array
S		
	1107	IoT-Based Power Management for DC Microgrids
S. Abdel-Khalik, Ayman	1139	Model Predictive Control of Three-Phase Electric Springs with Multiple Control Functions and Fixed Switching Frequency
S. Ahmad, Eman	26	An Integrated Power Differential Scheme for Tertiary Power Transformer Protection
S. Ahmed, Abdelmonem	1	Generation Expansion Planning Considering High Share Renewable Energies Uncertainty
S. Azzam, Attia	902	Modeling and fuzzy based computed torque control of a multi-degree of freedom robotic manipulator
S. Dessouky, Sobhy	311	Control Strategies for VSC based HVDC during Grid Faults: A comparative study of selection criteria of Currents Reference
S. Dessouky, Sobhy.	731	Enhancement of Traditional Maintenance Systems for Miniature Circuit Breakers Using Nanoparticles
S. E. Abdellatif, Walid	884	Comparison Between Outer Crowbar and RSFCL for LVRT Capability Enhancement of Wind Turbines Conversion System
S. Fathy, Mostafa	988	Optimization of the Dynamic Performance of a Photovoltaic-Wind Hybrid-Energy System using the Particle Swarm Technique
S. Sakr, W.	784	A day-ahead optimal RERs scheduling approach for virtual power plants considering different loading conditions
S.M. Osheba, Dina	515	A Proposed Single-Stage Single-Phase Boost Inverter with a New MPPT Method
Saadawi, Magdi	423	Frequency Stability in Weak Grids Using Independent Electric Vehicle
Sabiha, Nehmdoh	71	Investigation of Insulating Oils in Presence of Impurities
Salah El Din Zein El Din, Ashraf	902	Modeling and fuzzy based computed torque control of a multi-degree of freedom robotic manipulator
Salama, Gerges	1112	Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System
Salama, Maryam	621	Coils design and parallel resonant H-bridge inverter for inductive power transfer to recharge low-power portable devices
Salama, Mohamed	65	Solving Economic Load Dispatch Problem by Imperialist Competitive Algorithm
	226	High-Precision Sensorless Predictive Control of Salient-Pole Permanent Magnet Synchronous Motor based-on Extended Kalman Filter
Saleh, Amr	692	Encoderless Finite Control Set Predictive Current Control of Synchronous Reluctance Motor
Salem, Aboubaker	324	Advanced Method for Optimal Allocation of FACTS Devices Using Line Stability Index Combined with Meta-Heuristic Optimization Techniques
Salman, Alaa M.	1199	The Effect of Surface Modification of Titania Nanoparticles on the Dielectric Properties of Nanofluids
Sameh, Walid	866	An Intelligent Classifier of Electrical Discharges in Oil Immersed Power Transformers

Samy, Bassam	645	Coupled Finite Element-Circuit Modelling and Parameter Estimation Of Six-Phase Induction Motor
Samy, Mohamed	377	Hybrid Invasive Weed Optimization - Particle Swarm Optimization Algorithm for Biomass/PV Micro-grid Power System
	724	Field Profiles Underneath and Between Proposed Hybrid Power Lines in Egyptian Grid
Sayed, Abd-Elatif	295	Wind Farm Relay Protection for a Wind Farm based on directional algorithm and positive sequence fault current components with and without fiber optic backbone
Sayed, Ahmed	399	Optimal Management of Distribution Networks Regarding Reactive Power Generation
Sayed, Khairy	736	Energy Management and Control Strategy of DC Microgrid Including Multiple Energy Storage Systems
	1081	Energy Efficient Control Scheme of Induction Motor Based EV
Sayed, M. M.	946	Wind Energy Conversion System Oscillations Damping Using a Proposed Mutation Operator for LBBO-DE Algorithm
Sayed, Mahmoud	872	Enhanced Two-Fault Point Multi-Objective Coordination Scheme for Directional Overcurrent Relays in Meshed Distribution Networks Considering Fault Severity
	360	An Efficient Analytical Technique for Optimal Sizing of DGs in RDS Considering Load Variation
	970	Developed Algorithm Based on Lightning Search Optimizer and Analytical Technique for Allocation of Distribution Generators
Selim, Ali	982	Optimal Placement of Distribution Static Compensators in Radial Distribution Systems Using Hybrid Analytical-Coyote Optimization Technique
	1048	Optimal Placement of Phasor Measurement Units for State Estimation of Electrical Power Systems
	1063	Optimal Coordination of Overcurrent Relay Using Metaphor-less Simple Method
Selim, F.	41	Optimal Operation of Synchronous Motor Using Particle Swarm Optimization and Jaya Techniques
	177	A Newly On-Time Following Up Electrical Earthing System Technology
Selim, Fatma	614	Eight-switch Converter using PMSG Based WECS for Stand-alone Applications
Sh. Elghnam, Alaa	1127	A Comprehensive Analysis and Control of DVR Operating Modes for Grid-Voltage Compensation
Shaan, Essam M.	761	Influence of Fault Locations on the Pipeline Induced Voltages Near to Power Transmission Lines
Shaban, Mohammed	731	Enhancement of Traditional Maintenance Systems for Miniature Circuit Breakers Using Nanoparticles
Shabib, G.	589	ESO-Based Self Tuning Frequency Control Design for Isolated Microgrid System
Shafei, Mohamed	289	Improving Energy Efficiency in Egyptian Airports: A Case Study of Sharm-Elshiekh Airport
	621	Coils design and parallel resonant H-bridge inverter for inductive power transfer to recharge low-power portable devices
Shaheen, Abdullah	441	Optimal Allocation of DGs and Capacitor Devices using Improved Grey Wolf Optimizer
Shalaby, Mohamed	645	Coupled Finite Element-Circuit Modelling and Parameter Estimation Of Six-Phase Induction Motor
Shaltout, Adel	226	High-Precision Sensorless Predictive Control of Salient-Pole Permanent Magnet Synchronous Motor based-on Extended Kalman Filter
	692	Encoderless Finite Control Set Predictive Current Control of Synchronous Reluctance Motor
Sharaf, Heba	872	Enhanced Two-Fault Point Multi-Objective Coordination Scheme for Directional Overcurrent Relays in Meshed Distribution Networks Considering Fault Severity
Sharkawy, R.	59	Comparative Study of Different Drive Controller for a Traction System
Shehata, E. G	667	Voltage Source Converter Control and Stability Analysis for VSC-HVDC System with High DC-Link Impedance
Shehata, Nermine	533	OPTIMAL ALLOCATION OF A HYBRID RE/ESS FOR SUPPLYING EGYPTIAN DISTRIBUTION NETWORKS USING DISCRETE JAYA ALGORITHM
Sherbilla, Nader	952	Autonomous Backup Selectivity Technique for line- to-Ground Faults in Automated Distribution Networks
Shindu, T M	1031	Advanced Numerical Simulation Of Three-Phase Magnetic Shielding Superconducting Fault Current Limiter

S

	1156	Finite Element Model Of A Novel Three-Phase Inductive Saturated-Core Fault Current Limiter
Shoyama, Masahito	852	Capacitor Voltage Ripple Reduction Modulation Method for String Photovoltaic Inverters
Sobhy, M. A.	575	Harris Hawks Algorithm for Automatic Generation Control of Interconnected Power Systems
Soliman, Ahmed Ibrahim	976	Direct Sensorless Model Predictive Control of Induction Motor for Three-Level NPC Inverter based on Extended Kalman Filter
Soliman, Mahmoud	600	Robust PSSs Design via Generalized Kharitonov's Theorem
Soliman, Mohammad	656	Active Voltage Control in Distribution Networks including Distributed Generations using Hardware-In-The-Loop Technique
Sweif, Rania	994	Optimal Allocation for Photovoltaic / Wind Turbine Applying A Hybrid Butterfly Genetic Algorithm
	840	Maximum Power Point Tracking For a Stand Alone PV System Under Shading Conditions Using Flower Pollination Algorithm
Swief, Rania	896	Tuned Hyper Reconfiguration Analysis Applying Plant Growth Algorithm

T

Taalab, Abdel-Maksoud	952	Autonomous Backup Selectivity Technique for line- to-Ground Faults in Automated Distribution Networks
Taha Gabriel, Mohamed	902	Modeling and fuzzy based computed torque control of a multi-degree of freedom robotic manipulator
	71	Investigation of Insulating Oils in Presence of Impurities
Taha, Ibrahim	76	A Decision Transformer Fault Diagnostics System Based on Dissolved Gas Analysis
	656	Active Voltage Control in Distribution Networks including Distributed Generations using Hardware-In-The-Loop Technique
Talaat, Hossam	768	Analyzing wind power ramps for high penetration of variable renewable generation
Taleb, Mohamed	324	Advanced Method for Optimal Allocation of FACTS Devices Using Line Stability Index Combined with Meta-Heuristic Optimization Techniques
Tamer M. Barakat,	908	Modeling, Simulation and Classification of Power Transformer Faults Based on FRA Test
Tawfik, Mohamed	289	Improving Energy Efficiency in Egyptian Airports: A Case Study of Sharm-Elshiekh Airport
Th. El-Mohandes, Mohamed	914	A PSO-based Multi-objective Method for Optimal Weight Factors, Placement and Sizing of Multiple DG Units in a Distribution System
Thabet, A.	195	Improvement of Electrical Field Distribution on Non-Ceramic Insulators String Using Nanoparticles

U

Ullah, Zia	1074	Optimal Design of Low-cost and Reliable Hybrid Renewable Energy System Considering Grid Blackout
-------------------	------	--

W

W.I. Wahba,	608	Self-Mitigation of Magnetic Field near Overhead Power Lines Using Evolutionary Algorithms
Wang, Shaorong	1074	Optimal Design of Low-cost and Reliable Hybrid Renewable Energy System Considering Grid Blackout

Y

	26	An Integrated Power Differential Scheme for Tertiary Power Transformer Protection
Y. Abdelaziz, Almoataz	119	A Novel Reconfiguration Methodology of Radial Distribution Systems for Power Loss Minimization Using Expanded Invasive Weed Optimization
Yakout, Ahmed	496	Damping Inter-Area Oscillations Via Weighted Area Signals to PSSs Using TLBO & HS Algorithm
Yang, Xu	170	A Study of Level- Shifted PWM Single-phase 11-Level Multilevel Inverter
Yassin, Haitham	417	Active and Reactive Power Control of Marine Current Turbines with Flywheel Energy Storage System Using Meta-heuristic Technique
Yehia, Doaa M.	1193	Power Quality Investigation of Distribution Networks with High Penetration of Solar Energy

Yhya, Yamen	59	Comparative Study of Different Drive Controller for a Traction System
Yousry, Reem	964	Disturbance Estimation and Compensation for High-Precision Point-to-Point Motion Control
Youssef, Abdel-Raheem	97	Improved Perturb and Observe MPPT Algorithm of Multi-Phase PMSG Based Wind Energy Conversion System
	1000	Optimal DG Allocation in Radial Distribution Networks Using a Combined Approach Consisting Particle Swarm Optimization, Grey Wolf Optimizer and Loss Sensitivity Factor
Youssef, Ali	803	Effect of Wind Driven Double-Fed Induction Generator upon the Stability of decentralized power systems via Load Frequency Controllers design
Youssef, H. K.	342	A Proposed Economical Based Approach for Optimal Sizing and Placement of Distributed Generation
Youssef, Hassan	89	Grey Wolf Algorithm as a Solution for Cascading Control Problem in Converter Based HVDC Energy Transmission System
Youssef, Kamlia	307	Energy Efficient Lighting System
Youssef, Karim	271	Improved Indirect 3D Space Vector Modulation for Repetitive Controlled Four-Leg Matrix Converter
Z		
Z. Azazi, Haitham	515	A Proposed Single-Stage Single-Phase Boost Inverter with a New MPPT Method
Z. Elgeziry, Mohammed	502	Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study
	890	Multi-Function Protection Scheme for HVDC Transmission Systems
Z. Youssef, Mohamed	614	Eight-switch Converter using PMSG Based WECS for Stand-alone Applications
Zekry, Abdelhalim	53	Accurate Fault Diagnosis Technique for Series Parallel PV Array
Zellagui, Mohamed	277	MVO Algorithm for Optimal Simultaneous Integration of DG and DSTATCOM in a Practical Radial Distribution System Based on Technical-Economic Indices
Zenhom, Z. M.	342	A Proposed Economical Based Approach for Optimal Sizing and Placement of Distributed Generation
	365	Optimal Allocation of Distributed Generation in A Part of The Egyptian Electrical Network Using Whale Optimization Algorithm
Zewail, Mohammed	1230	Carrier-based PWM Techniques for Current-fed Quasi-Z-Source Converters

