



Conference Program

	08:30 – 16:00*	Registration (Daily)				
	08:30 – 17:00**	Exhibition (Daily)				
Day 1 17-12-2019	09:00 – 10:30	Opening Ceremony (Hall Cleopatra)				
	10:30 – 11:00	Opening the Exhibition				
	11:00 – 11:30	Break (Hall Cleopatra)				
	11:30 – 12:15	Principal Supporter Talk: Madkour Group (Hall Cleopatra) Prof. Abbas A. El-Hefnawy - Prof. Ahmed Azmy				
	12:15 – 13:15	Keynote Lecture 1: Prof. Osama Mohamed Florida International University, USA (Hall Cleopatra) Prof. Nabil Abbasy - Prof. Esam Rashad				
	13:15 – 14:15	Supporters Talks (Hall Cleopatra) Prof. Adel Abou El-Ela - Prof. Mousa A. Awad			Hall SP 7 Steering Committee Meeting	
		Smart Systems	OPAL-RT	Giza Systems		
	14:15 – 15:15	Lunch (Hall Cleopatra)				
	15:15 – 17:00	Hall Cleopatra Part 1 Session AA Power Systems Planning-1 Prof. Ahmed Hosam - Prof. Mohamed A. Izzularab			Hall Cleopatra Part 2 Session BB Power Electronics-1 Prof. Ahmed Abdelsattar - Prof. Sabry Abdellatif	
Day 2 18-12-2019	09:00 – 11:00	Hall SP 1 Session A1 Power System Analysis-1 Prof. Ahmed Hosam Prof. Osama Mohamed	Hall SP 2 Session B1 Distributed Generation-1 Prof. Mohamed Tantawy Prof. Adel A. Elbaset	Hall SP 3 Session C1 Power Electronics-2 Prof. Elwy EL-Kholy Prof. Said M. Allam	Hall SP 4 Session D1 AI in Power Systems-1 Prof. Ahmed Bahgat Prof. Sobhy Abdelkader	Hall SP 5 Session E1 High Voltage-1 Prof. Ibrahim Megahed Prof. Mazen Abdelsalam
	11:00 – 11:30	Break (Hall Teeba)				
	11:30 – 12:30	Hall SP 1 Keynote Lecture 2 (Prof. Wei Xu, China) Prof. Abdelhay Sallam Prof. Amr Amin	Hall SP 2 Keynote Lecture 3 (Prof. Mohamed Z.Youssef) Prof. Adel Elsamahy Prof. Mostafa Saad			
	12:30 – 13:00		Tutorial (OPAL-RT) Prof. Loai S. Nasrat Prof. Ayman Samy			
	13:00 – 14:30	Hall SP 1 Session A2 Power Systems Planning-2 Prof. Sayed Ward Prof. Ibrahim Helal	Hall SP 2 Session B2 Renewable Energy-1 Prof. Almoataz Abdelaziz Prof. Ahmed Zobaa	Hall SP 3 Session C2 Electric Drives-1 Prof. Hussein Farid Prof. Mohamed Orabi	Hall SP 4 Session D2 Generation, Transmission and Distribution-1 Prof. Mohamed Elsherbiny Prof. Adel Z El Dein	Hall SP 5 Session E2 Protection-1 Prof. Mohamed Izzularab Prof. Osama Gouda
	14:30 – 15:30	Lunch (Hall Teeba)				
	15:30 – 17:00	Hall SP 1 Session A3 Power Systems Control-1 Prof. Hassan Durrah Prof. Hany Hasanien	Hall SP 2 Session B3 Power Quality-1 Prof. Shaban Osheba Prof. Ramadan Mahmoud	Hall SP 3 Session C3 Electric Vehicles Prof. Ahmed Abdelsattar Prof. Fathy Abdelkader	Hall SP 4 Session D3 Energy and Environment Prof. Hamdy Ashour Prof. Mohamed El-Nemr	Hall SP 5 Session E3 Smart grids Prof. Sobhy Serry Prof. Tamer Monir
	17:00 – 18:00	Egypt IEEE Chapter Meeting				
	19:00 – 22:00	Conference Dinner				
	Day 3 19-12-2019	09:00 – 10:30	Hall SP 1 Session A4 Power Systems Planning-3 Prof. Nabil Abbasy Prof. Ahmed Zobaa	Hall SP 2 Session B4 Renewable Energy-2 Prof. Almoataz Abdelaziz Prof. Mohamed Orabi	Hall SP 3 Session C4 Power Electronics-3 Prof. Fathy Abdelkader Prof. Elwy EL-Kholy	Hall SP 4 Session D4 AI in Power Systems-2 Prof. Ramadan Mahmoud Prof. Ahmed Azmy
10:30 – 11:00		Break (Hall Teeba)				
11:00 – 12:30		Hall SP 1 Session A5 Power Systems Control-2 Prof. Omar H. Abdalla Prof. Abdel-Ghany Mohamed	Hall SP 2 Session B5 Power Quality-2 Prof. Fahmy Bendary Prof. Osama Mohamed	Hall SP 3 Session C5 Electric Drives-2 Prof. Mohamed A. Bader	Hall SP 4 Session D5 Generation, Transmission and Distribution-2 Prof. Adel Abou El-Ela Prof. Sayed Tag- Eldin	Hall SP 5 Session E5 High Voltage-2 Prof. Ahdab El-Morshedy Prof. Diaa-Eldin Mansour



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				Prof. Sabry Abdellatif		
12:30 – 14:00	Hall SP 1 Session A6 <i>Power System Analysis-2</i>	Hall SP 2 Session B6 <i>Distributed Generation-2</i>	Hall SP 3 Session C6 <i>Electrical Machines</i>	Hall SP 4 Session D6 <i>AI in Power Systems-3</i>	Hall SP 5 Session E6 <i>Micro-grids</i>	
	Prof. Mazen Abdelsalam Prof. Abdelhay Sallam	Prof. Magdi El-Saadawi Prof. Hany A. Abdelsalam	Prof. Abbas El-Hefnawy Prof. Abdelsalam Ahmed	Prof. Shaban Osheba Prof. Ragab El-Sehiemy	Prof. Amr Amin Prof. Loai S. Nasrat	
14:00 – 14:20	Hall SP 1 Invited Talk (M Galeela) Prof. Esam Rashad					
14:20 – 14:45	<i>Closing Ceremony</i>					
14:45 – 15:45	Lunch (Hall Teeba)					



Program Summery

#	Topic	Session	Paper1	Paper2	Paper3	Paper4	Paper5	Paper6	Paper7
1	Micro-grids	E6	77	94	135	152	169	255	
2	Electrical Machines	C6	61	114	151	177	264	276	
3	High Voltage	E1	19	20	194	43	79	149	31
		E5	47	168	233	278	231	240	
4	Protection	E2	242	74	10	237	215	199	
		E4	35	196	83	117	170	15	
5	Smart Grids	E3	96	116	128	251	253	263	
6	Electric Drives	C2	7	16	161	52	65	49	
		C5	60	147	21	202	220	275	
7	Electric Vehicles	C3	206	30	102	188	247	271	
8	Power Systems Control	A3	44	164	64	118	132	137	
		A5	59	175	181	217	245	285	
9	AI in Power Systems	D4	8	11	25	14	28	53	
		D6	80	81	97	178	13	189	
		D1	193	201	205	221	224	256	187
10	Distributed Generation	B1	87	88	89	124	109	134	154
		B6	158	160	171	219	238	172	
11	Power Quality	B3	85	90	110	111	129	66	
		B5	191	123	226	182	261	277	
12	Energy and Environment	D3	24	78	91	163	166	71	
13	Generation, Transmission and Distribution	D2	259	100	101	106	179	266	
		D5	225	138	239	167	174	40	
14	Power Electronics	BB	115	127	143	41	280	121	6
		C1	144	156	262	281	241	36	283
		C4	192	286	39	51	140	33	
15	Power System Analysis	A1	209	42	130	157	82	108	287
		A6	183	204	198	22	212	265	
16	Power Systems Planning	AA	93	18	26	246	58	70	180
		A4	5	105	120	125	133	136	
		A2	84	213	185	27	258	197	
17	Renewable Energy	B2	210	119	103	23	216	155	
		B4	162	223	229	232	249	267	
Total		32							



Tuesday, December 17th

09:00-10:30	Opening Ceremony
10:30-11:00	Opening the Exhibition
11:00-11:30	Break
11:30-12:15	Principal Sponsor Talk: Madkour Group Chairmen: Prof. Abbas A. El-Hefnawy, Menoufia University - Prof. Ahmed Azmy, Tanta University
12:15-13:15	Keynote Lecture 1: Prof. Osama Mohamed Florida International University, USA “Cyber Physical Security and Control Challenges in Smart Energy Systems” Chairmen: Prof. Nabil Abbasy, Alexandria University - Prof. Esam Rashad, Tanta University
13:15-14:15	Supporters Talks: (Smart Systems - OPAL-RT - Giza Systems - RTDS Technologies) Chairmen: Prof. Adel Abou El-Ela, Menoufia University - Prof. Mousa A. Awad, Banha University
13:15-14:15	Steering Committee Meeting
14:15-15:15	Lunch
15:15-17:00	<u>Session AA: Power Systems Planning-1</u> Chairmen: Prof. Ahmed Hosam, Alexandria University - Prof. Mohamed A. Izzularab, Menoufia University
93	Mazen Abdel-Salam, Mohamed Th. El-Mohandes, Ali M. Yousef and Reham Ramadan. Optimal sizing and locations of DG sources in distribution systems: A review of different techniques
18	Mohamed Ayoub, Hany Henry, Samir Abdelmaksoud and Mohamed Salama. Solving Economic Load Dispatch Problem by Imperialist Competitive Algorithm
26	Ibrahim Mohamed Diaaeldin, Shady H. E. Abdel Aleem, Ahmed El-Rafei and Almoataz Y. Abdelaziz. A Novel Reconfiguration Methodology of Radial Distribution Systems for Power Loss Minimization Using Expanded Invasive Weed Optimization
246	M.R. Elkadeem, Ahmed M. Azmy, Shaorong Wang, Eman Atiya, Zia Ullah and Samir M. Dawoud. Optimal Design of Low-cost and Reliable Hybrid Renewable Energy System Considering Grid Blackout
58	Mohamed Mouwafi, Adel Abou El-Ela and Walid Al-Zahar. Optimal Transmission System Expansion Planning Via Binary Bat Algorithm
70	M. Ezzat. Reliability Enhancement in Distribution Systems Through Distributed Generator and Capacitor Allocation Using Flower Pollination Algorithm
180	Mazen Abdel-Salam, Mohamed Th. El-Mohandes, Ali M. Yousef, Alaa E. Abdel-Hakim and Reham Ramadan. A GA-based method for computing MOF-weighting coefficients along with optimal location and sizing of DG sources in distribution systems
15:15-17:00	<u>Session BB: Power Electronics-1</u> Chairmen: Prof. Ahmed Abdelsattar, Ain Shames University - Prof. Sabry Abdellati, Menoufia University
115	Mohamed Ismeil, Omami Abdelaal and Mohamed Orabi. Model Predictive Control of Quasi Y-Source Inverter
127	Mohamed G. Hussien and Abd El-Wahab Hassan. Mathematical Analysis of the Small Signal Model for Voltage-Source Inverter in SPMSM Drive Systems
143	Mohamed Shafei, Maryam Salama, Ahmed Mansour and Doaa Khalil. Coils design and parallel resonant H-bridge inverter for inductive power transfer to recharge low-power portable devices
41	Mohammed El-Nagar, Ahmed Elserougi and Ahmed Hossam-Eldin. Split-Source Nine-Switch Inverter (SSNSI): Analysis and Modulation
280	Mahmoud Abdulsalam, Sherif Dabour and Essam Rashad. Cascaded Multilevel Split-Source Inverters: Analysis and Modulation
121	Osama M. Salem, Dina S.M. Osheba, Haitham Z. Azazi and Azza E. Lashine. A Proposed Single-Stage Single-Phase Boost Inverter with a New MPPT Method



6	Mohamed Ismeil. High Dynamic Performance for Split-Source Inverter based on Finite Control Set Model Predictive Control
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Wednesday, December 18th

09:00-11:00	<p>Session A1: Power System Analysis-1 Chairmen: Prof. Ahmed Hosam, Alexandria University - Prof. Osama Mohamed, Florida International University, USA</p>
209	Shaimaa R. Spea and Heba A. Khattab. Design, Sizing and Performance Analysis of Stand-Alone PV System using PVSyst Software for a Location in Egypt
42	Mohamed K. El-Aser, Rasha El-Azab and Adel A. El-Samahy. Probabilistic Model of Utility Scale PV Plants
130	Abdullah M. Shaheen, Abdallah M. Elsayed and Mahmoud Abd El Aziz. Capacitor Switching with Distribution System Reconfiguration and Load Variations: Practical Case Study using ETAP and Network Analyzer
157	Ahmad Eid and Mamdouh Abdel-Akher. Power Loss Reduction using Adaptive PSO in Unbalanced Distribution Networks
82	Ahmed Hossam Khader, Ahmed Hassan Yakout and Metwally El-Sharkawy. Damping Interarea Oscillations Using PID Power System Stabilizer with Grey Wolf Algorithm and Particle Swarm Algorithm
108	Ahmed Ismail, Nagar Hassan and Mohamad Ezzat. Combined Power and Attitude Control System for Low Earth Orbit Satellites
287	Mohab Gaber, S.H. El-Banna, Mahmoud El-Dabah and M.S. Hamad. Model and Control of Naval Ship Power System by The Concept of All-Electric Ships Based on Renewable Energy.
09:00-11:00	<p>Session B1: Distributed Generation-1 Chairmen: Prof. Mohamed Tantawy, Mansoura University - Prof. Adel A. Elbaset, Minia University</p>
87	Mansur Khasanov, Salah Kamel and Hussein Abdel-Mawgoud. Minimizing Power Loss and Improving Voltage Stability in Distribution System Through Optimal Allocation of Distributed Generation Using Electrostatic Discharge Algorithm
88	Amal Amin, Salah Kamel, Ali Selim and Mohamed M. Aly. An Efficient Analytical Technique for Optimal Sizing of DGs in RDS Considering Load Variation
89	Z. M. Zenhom and T. A. Boghdady. Optimal Allocation of Distributed Generation in A Part of The Egyptian Electrical Network Using Whale Optimization Algorithm
124	Asmaa Fared Nasef, Dina S. M. Osheba, Heba Abdel-Hamid Khattab and S. M. Osheba. Impacts of Renewable Energy Sources Allocation in Distribution Networks
109	Mai Diab, Mohamed Elhabrouk, Tamer Helmy and Samir Deghedie. Switched Capacitor Circuits in Power Systems: A Survey
134	Ibrahim Nassar, Ibrahim Elsayed and Mahmoud Abdella. Optimization and Stability Analysis of Offshore Hybrid Renewable Energy Systems
154	Beshoy Nabil, Mohammad Soliman and Hossam Talaat. Active Voltage Control in Distribution Networks including Distributed Generations using Hardware-In-The-Loop Technique
09:00-11:00	<p>Session C1: Power Electronics-2 Chairmen: Prof. Elwy EL-Kholy, Menoufia University - Prof. Said M. Allam, Tanta University</p>
144	Fathy H. Awad, Ahmed A. Mansour, Mostafa I. Marei and Ahmed A. El-Sattar. An Unbalance Mitigation Method based on 3D-SVPWM for Four-Wire Three-Leg Mid Capacitor Point Inverter
156	Dalia Rabie, E. G Shehata and Yahia S. Mohamed. Voltage Source Converter Control and Stability Analysis for VSC-HVDC System with High DC-Link Impedance
262	Mohamed Holiel, Ragi Ali Hamdy, Ayman S. Abdel-Khalik and Karim H. Youssef. Model Predictive Control of Three-Phase Electric Springs with Multiple Control Functions and Fixed Switching Frequency



281	Sherif Dabour, Samar Abdel-Wahab and Essam Rashad. Common-Mode Voltage Reduction Algorithm with Minimum Switching Losses for Three-Phase Inverters
36	Omar Abdel-Rahim. Negative-Positive Neutral point based Two-Stage Inverter for Photovoltaic application
241	Mohamed M. El-Sotouhy, Ahmed A.Mansour, Mostafa I.Marei, Aziza M. Zaki and Ahmed A. El-Sattar. Active Filter Based on Four -Leg Inverter and PQ Theory
283	Rania Hammad, Sherif Dabour and Essam Rashad. Open-Circuit Fault Detection of Asymmetrical Six-phase Induction Motor Fed from Z-Source Inverter
09:00-11:00	Session D1: AI in Power Systems-1 Chairmen: Prof. Ahmed Bahgat, Cairo University - Prof. Sobhy Abdelkader, Mansoura University
193	Latefa A. El-Sharaway, Hadi M. El-Helw and Hany M. Hasanien. Enhanced Grey Wolf Optimization for GMPP Tracking of PV Systems Under Partial Shading Condition
201	Ibrahem Mahmoud, Rania Swief and Tarek Abd El-Salam. Tuned Hyper Reconfiguration Analysis Applying Plant Growth Algorithm
205	Mazen Abdel-Salam, Mohamed Th. El-Mohandes and Lubna Mahmoud. A PSO-based Multi-objective Method for Optimal Weight Factors, Placement and Sizing of Multiple DG Units in a Distribution System
221	Amal Amin, Salah Kamel, Ali Selim and Loai Nasrat. Optimal Placement of Distribution Static Compensators in Radial Distribution Systems Using Hybrid Analytical-Coyote Optimization Technique
224	Mennatallah Megahid, Tarek Abdelsalam and Rania Sweif. Optimal Allocation for Photovoltaic / Wind Turbine Applying A Hybrid Butterfly Genetic Algorithm
256	Mohamed Barakat, Hesham Hamed, Gerges Salama, Ahmed Donkol and Hossam El Rahhal. Water Cycle Algorithm Optimized a Centralized PID controller for Frequency Stability of a Real Hybrid Power System
187	Mostafa Hassan, Shady Abdel Aleem, Samia Ali and Almoataz Abdelaziz. Day-Ahead Optimal Scheduling for Grid-Connected Microgrid with Energy Storage Systems
09:00-11:00	Session E1: High Voltage-1 Chairmen: Prof. Ibrahim Megahed, Alexandria University - Prof. Mazen Abdelsalam, Assiut University
19	Sherif Ghoneim, Ibrahim Taha, Nehmdoh Sabiha and Refaat El-Adly. Investigation of Insulating Oils in Presence of Impurities
20	Sherif Ghoneim, Diao-Eldin A. Mansour, Ibrahim Taha and Mosleh Alharthi. A Decision Transformer Fault Diagnostics System Based on Dissolved Gas Analysis
194	Walid Sameh, Ahmed H. Gad and Soliman M. Eldebeikay. An Intelligent Classifier of Electrical Discharges in Oil Immersed Power Transformers
43	A. Thabet, M.R. Al-Sharif, Abdel-Moamen M.A. and A. El-Nobi. Improvement of Electrical Field Distribution on Non-Ceramic Insulators String Using Nanoparticles
79	Nagwa F. Ibrahim, M. Fawzi, Hamed A. Ibrahim and Sobhy S. Dessouky. Control Strategies for VSC based HVDC during Grid Faults: A comparative study of selection criteria of Currents Reference
149	Sayed A. Ward, Adel Elfaraskoury, Mohamed Badwi and Shimaa Adel Ibrahim. A Modified Dissolved Gas Analysis Technique as a Diagnostic Tool for Faults in Power Transformers
31	Ziad M. Ali. Composite Material's Flashover Voltage Estimation Experimentally/Numerically
11:00-11:30	Break
11:30-13:00	Keynote Lecture 2: Prof. Wei Xu, China , Huazhong University of Science and Technology, China. “Linear Induction Machine and Drive System: From Theory to Application” Chairmen: Prof. Abdelhay Sallam, Port Said University - Prof. Amr Amin, Helwan University
11:30-12:30	Keynote Lecture 3: Prof. Mohamed Z. Youssef , University of Ontario “Water is Life: Can Power Engineers Help?” Chairmen: Prof. Adel Elsamahy, Helwan University – Prof. Mostafa Saad, Arab Academy



<p>12:30-13:00</p> <p>13:00-14:30</p>	<p>Tutorial: Simon Abourida, OPAL-RT Technologies in the Middle East “Development of the Modern Electric Grid with High-End Real-Time Simulation Tools” Chairmen: Prof. Loai S. Nasrat, Aswan University - Prof. Ayman Samy, Alexandria University</p> <p>Session A2: Power Systems Planning-2 Chairmen: Prof. Sayed Ward, Benha University - Prof. Ibrahim Helal, Ain Shames University</p>
<p>84</p>	<p>Z. M. Zenhom, T. A. Boghdady and H. K. Youssef. A Proposed Economical Based Approach for Optimal Sizing and Placement of Distributed Generation</p>
<p>213</p>	<p>T. A. Boghdady, M. M. Sayed and Howaida M. Ragab. Wind Energy Conversion System Oscillations Damping Using a Proposed Mutation Operator for LBBO-DE Algorithm</p>
<p>185</p>	<p>Abdelfattah Eladl, Magda El-Afifi and Magdi El-Saadawi. Communication technologies Requirement for Energy Hubs: A survey</p>
<p>27</p>	<p>Ahmed Emam, Ahmed Azmy and Essam Rashad. Egyptian Power System Optimal Allocation of STATCOM Devices based on Particles Swarm Optimization Technique</p>
<p>258</p>	<p>Mazen M. Abdel-Salam, Mohamed Th. El-Mohandes and Amira H. Osman. PSO based Protection Coordination and Power loss Minimization in Distribution Systems with DG Sources using Optimal Fault Current Limiters</p>
<p>197</p>	<p>Nathalie Nazih, Walid El-Khattam and T.S. Abdel-Salam. Cost and Shadow Price Minimization in Electrical Power Network</p>
<p>13:00-14:30</p>	<p>Session B2: Renewable Energy-1 Chairmen: Prof. Almoataz Abdelaziz, Ain Shames University- Prof. Ahmed Zobaa, Brunel University</p>
<p>210</p>	<p>Ibrahim A. Nassar, Mahmoud N. Ali and Ibrahim M. Kassem. Influence of using Intermittent Renewable Energy Sources on The Power System Operation</p>
<p>119</p>	<p>Mohammed Z. Elgeziry, Tamer A. Kawady, Nagy I. Elkalashy, Mahmoud A. Elsadd, Mohamed A. Izzularab, Mohamed M. El-Khayat and Abdel-Maksoud I. Taalab. Integration Enhancement of Grid-Connected Wind Farms Using HVDC Systems: Egyptian Network Case Study</p>
<p>103</p>	<p>Mohammed A. Elsayed Eid, Adel A. Elbaset, Hamed A. Ibrahim and Saad A. Mohamed Abdelwahab. Modelling, Simulation of MPPT Using Perturb and Observe and Incremental Conductance techniques For Stand-Alone PV Systems</p>
<p>23</p>	<p>Hossam H. H. Mousa, Abdel-Raheem Youssef and Essam E. M. Mohamed. Improved Perturb and Observe MPPT Algorithm of Multi-Phase PMSG Based Wind Energy Conversion System</p>
<p>216</p>	<p>Heba Mohammed, Dalia Allam, Mostafa Al-Gabalawy and M.B. Eteiba. Optimization of Voltage Source Inverter's Controllers Using Salp Swarm Algorithm in Grid Connected PV System</p>
<p>155</p>	<p>Mahmoud Rihan, Ahmed Rashad and Salah Kamel. Adequate Crowbar for Enhancing the Performance of Squirrel Cage Induction Gnerators Wind Farms</p>
<p>13:00-14:30</p>	<p>Session C2: Electric Drives-1 Chairmen: Prof. Hussein Farid, Ain Shames University - Prof. Mohamed Orabi, Aswan University</p>
<p>7</p>	<p>Omar Abdel-Rahim. An improved Predictive Torque Control for Multi-Phase Matrix Converter</p>
<p>16</p>	<p>Yamen Yhya, R. Sharkawy and M. Hamouda. Comparative Study of Different Drive Controller for a Traction System</p>
<p>161</p>	<p>Ahmed Farhan, Amr Saleh, Adel Shaltout and Ralph Kennel. Encoderless Finite Control Set Predictive Current Control of Synchronous Reluctance Motor</p>
<p>52</p>	<p>Ahmed Farhan, Mohamed Abdelrahem, Amr Saleh, Adel Shaltout and Ralph Kennel. High-Precision Sensorless Predictive Control of Salient-Pole Permanent Magnet Synchronous Motor based-on Extended Kalman Filter</p>
<p>65</p>	<p>Ahmed Abdelrehim, Samir Deghedie Erfan, Mohamed El-Habrouk and Karim Youssef. Improved Indirect 3D Space Vector Modulation for Repetitive Controlled Four-Leg Matrix Converter</p>



49	Omar Makram Kamel, Mahmoud A. Mossa and Ahmed A. Zaki Diab. Evaluating Dynamic Performance of DTC Under Grid Disturbance for a Wind Driven DFIG
13:00-14:30	Session D2: Generation, Transmission and Distribution-1 Chairmen: Prof. Mohamed K. El-Sherbiny, Assiut University - Prof. Adel Z El Dein, Aswan University
259	Alaa Sh. Elghnam, Said M. Allam and Ahmed M. Azmy. A Comprehensive Analysis and Control of DVR Operating Modes for Grid-Voltage Compensation
100	Mahrous A. Taher, Salah Kamel, Francisco Jurado and Abdalla Ahmed. Series FACTS Devices for Maximization of Loadability and Minimization of Fuel Cost
101	Haitham Yassin and Mohamed Abdul Raouf Shafei. Active and Reactive Power Control of Marine Current Turbines with Flywheel Energy Storage System Using Meta-heuristic Technique
106	Adel Abo El-Ela, Ragab El-Seheimy, Abdullah Shaheen and Ibrahim Eissa. Optimal Allocation of DGs and Capacitor Devices using Improved Grey Wolf Optimizer
179	Yehia Abdelrehim, Mohamed Abdul Raouf Shafei and Doaa Khalil Ibrahim. Sharm El-Sheikh 5 MW PV Plant Performance, Environmental Impact and Grid Connection Parameters
266	Ahmed Abdelhafez, Mohamed El-Nemr and Ahmed Azmy. AC Micro-Grid Flexible Simulation Utility for SCADA System Development
13:00-14:30	Session E2: Protection-1 Chairmen: Prof. Mohamed A. Izzularab, Menoufia University - Prof. Osama Gouda, Cairo University
242	Hagag Abdul Jabir, Salah Kamel, Ali Selim and Francisco Jurado. Optimal Coordination of Overcurrent Relay Using Metaphor-less Simple Method
74	Abdullah Mohamed, Abd-Ellatif Sayed, Sabry Mousa and Adel Elsamahy. Wind Farm Relay Protection for a Wind Farm based on directional algorithm and positive sequence fault current components with and without fiber optic backbone
10	Eman S. Ahmad, Hossam A. Abd El-Ghany and Almoataz Y. Abdelaziz. An Integrated Power Differential Scheme for Tertiary Power Transformer Protection
237	Akram Elmitwally and Eid Gouda. Coordination Preservation of Directional Overcurrent Relays in a Multiple-Topology Network with Distributed Generations by Fault Current Limiters
215	Nader Sherbilla, Mahmoud Elsad, Tamer Kawady, Nagy Elkalashy and Abdel-Maksoud Taalab. Autonomous Backup Selectivity Technique for line- to-Ground Faults in Automated Distribution Networks
199	Mohammed Z. Elgeziry, Mahmoud A. Elsad, Tamer A. Kawady, Nagy I. Elkalashy, Mohamed A. Izzularab and Abdel-Maksoud I. Taalab. Multi-Function Protection Scheme for HVDC Transmission Systems
14:30-15:30	Lunch
15:30-17:00	Session A3: Power Systems Control-1 Chairmen: Prof. Hassan Durrah, Cairo University - Prof. Hany Hasanien, Ain Shames University
44	Mohamed Issam A.Elrefaei Ali, Ahmed A. Zaki Diab and Ahmed A. Hassan. Adaptive Load Frequency Control Based on Dynamic Jaya Optimization Algorithm of Power System with Renewable Energy Integration
164	Hesham Khalaf, Mohiy E.Bahgat, A.M Abdel-Ghany and Helmy El Zoghby. Advanced Control Techniques for an Interconnected Multi Area Power System for Load Frequency Control
64	Abdallah Mohamed, Abdel-Ghany Mohamed Abdel-Ghany and Mohiy Bahgat. Frequency Control in a Microgrid Using Decentralized Brain Emotional Learning Based Intelligent Controllers
118	Ahmed Yakout and Mahmoud Attia. Damping Inter-Area Oscillations Via Weighted Area Signals to PSSs Using TLBO & HS Algorithm



132	Ahmed H. A. Elkasem, Salah Kamel, Ahmed Korashy and Francisco Jurado. Application of Harris Hawks Algorithm for Frequency Response Enhancement of Two-Area Interconnected Power System with DFIG Based Wind Turbine
137	Mohamed Ayman and Mahmoud Soliman. Robust PSSs Design via Generalized Kharitonov's Theorem
15:30-17:00	Session B3: Power Quality-1 Chairmen: Prof. Shaban Osheba, Menoufia University - Prof. Ramadan Mahmoud, Beni-Suef University
85	Shazly Ahmed and Abdel-Moamen Abdel-Rahim. Comprehensive study of Reactive Power and its Compensation Using Shunt-Connected FACTS Device
129	Mai Diab, Mohamed Elhabrouk, Tamer Helmy and Samir Deghedie Erfan. Switched Capacitor Active Power Filter Optimization Using Nature-Inspired Techniques
110	Ibrahim A.Nassar, Mohamad A.Omara and Mahmoud M. Abdella. Enhancement of Voltage Profile in Power Systems by Using Genetic Algorithm
111	Ahmed Abbas, Eman Ali, Ragab El-Sehiemy, Adel Abou El-Ela and Khaled Fetyan. Comprehensive Parametric Analysis of Single Tuned Filter in Distribution Systems
90	Ahmed Emam, Ahmed Azmy and Essam Rashad. Model Predictive Control-based Optimal STATCOM Operation for Mitigating Voltage Sag in Electric Networks Comprising Large Wind Farms
66	Heba Ahmed Hassan and Mohamed Zellagui. MVO Algorithm for Optimal Simultaneous Integration of DG and DSTATCOM in a Practical Radial Distribution System Based on Technical-Economic Indices
15:30-17:00	Session C3: Electric Vehicles Chairmen: Prof. Ahmed Abdelsattar, Ain Shames University - Prof. Fathy Abdelkader, Menoufia University
206	Moustafa Hassan, Mohamed Nabil and Abdelazeem A. Abdelsalam. Mitigation of Electric Vehicle Distortion Impact on Distribution Networks
30	Ahmed I. Omar, Shady H. E. Abdel Aleem, Essam E. A. El-Zahab, Adel M. Sharaf and Aboufotouh A. Mohamed. Optimal Switched Compensator for Vehicle-to-Grid Battery Chargers using Salp Optimization Algorithm
102	Afaf Rabie, Abdelhady Ghanem, Sahar Kaddah and Magdi Saadawi. Frequency Stability in Weak Grids Using Independent Electric Vehicle
188	Mahmoud M. Akl, Abdelsalam A. Ahmed and Essam Eddin M. Rashad. A Wide Component Sizing and Performance Assessment of Electric Drivetrains for Electric Vehicles
247	Rasha Kassem, Khairy Sayed, Ahmed Kassem and Ramadan Mostafa. Energy Efficient Control Scheme of Induction Motor Based EV
271	Maha Gamal Elsheikh, Mokhtar Aly, Emad M. Ahmed and Ziad M. Ali. Advanced Multi-disciplinary Modelling of Lithium-Ion Batteries for Outdoor Applications
15:30-17:00	Session D3: Energy and Environment Chairmen: Prof. Hamdy Ashour, Arab Academy - Prof. Mohamed El-Nemr, Tanta University
24	Ahmed A. El Baset A. El Halim, Naggar H. Saad and Ahmed A. El Sattar. Application of a Combined System Between Perturb and Observe Method and Incremental Conductance Technique for MPPT in PV Systems
78	Kamlia Youssef, Viola Aziz and Mohamed Omran. Energy Efficient Lighting System
91	Mohamed Samy and Shimaa Barakat. Hybrid Invasive Weed Optimization - Particle Swarm Optimization Algorithm for Biomass/PV Micro-grid Power System
163	Mustafa Abu Zaher, Yousry Atia, Farag Kamel and Emad El Zohri. Experimental Realization for P&O Maximum Power Point Tracking Applied for Single-Stage Three-Phase Grid-Connected Photovoltaic System
166	Ahmed A. El Baset A. El Halim, Naggar H. Saad and Ahmed A. El Sattar. A Comparative Study Between Perturb and Observe and Cuckoo Search Algorithm for Maximum Power Point Tracking



71	Mohamed Shafei, Mohamed Tawfik and Doaa Khalil. Improving Energy Efficiency in Egyptian Airports: A Case Study of Sharm-Elshiekh Airport
15:30-17:00	Session E3: Smart grids Chairmen: Prof. Sobhy Serry, Port Said University - Prof. Tamer Monir, Misr University for Science and Technology
96	Ahmed Sayed, Amr Magdy, Abdelatif Badr and Soliman Eldebeiky. Optimal Management of Distribution Networks Regarding Reactive Power Generation
116	Mazen Abdel-Salam, Ahmed Elnozahy and Mohammed Elgamal. Power Loss in SMES coil as influenced by its material
128	Rehab H. Abdelwahab, Mohamed El-Habrouk and Tamer H. Abdelhamid. Survey of Communication Techniques in Smart Grids
251	Ismail M. Mosaed and S. Hasan. A New Analytical Approach of Cost Benefit Analysis for Automated Medium Voltage Closed Ring Distribution Networks
253	M. Aboubakr M., Ahmed M. Atallah, Ahmed Abdel-Sattar and M. A. El-Dessouki. Various Communication Technologies Used in Smart Grid
263	Mohamed Elgayar and Nabil Abbasy. Optimal Placement of Micro PMUs in Distribution Networks using A Graph Theory / Greedy Hybrid Algorithm
17:00-18:00	Session S2: Egypt IEEE Chapter Meeting
19:00-21:00	Conference Dinner

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09:00-10:30	Session A4: Power Systems Planning-3 Chairmen: Prof. Nabil Abbasy, Alexandria University - Prof. Ahmed Zobaa, Brunel University
5	Omar H. Abdalla, Abdelmonem S. Ahmed and Maged A. Abu Adma. Generation Expansion Planning Considering High Share Renewable Energies Uncertainty
105	Adel Abou El- Ela, Ragab El-Sehiemy and Nora El-Ayaat. Multi-objective Binary Particle Swarm Optimization Algorithm for Optimal Distribution System reconfiguration
120	Amera Doso, Sohir Allam, Adel Abou El- Ela and Rizk Rizk-Allah. Parallel Binary Sine Cosine with Optimal Priority List Algorithm for Unit Commitment
125	Nermine Shehata, Sohir Allam, Adel Abou El-Ela and Rizk Rizk-Allah. Optimal Allocation of A Hybrid RE/ESS for Supplying Egyption Distribution Networks Using Discrete Jaya Algorithm
133	M. A. Sobhy, M. Ezzat, Hany M. Hasanien and Almoataz Y. Abdelaziz. Harris Hawks Algorithm for Automatic Generation Control of Interconnected Power Systems
136	Said Abdel-Fatah, Mohamed Ebeed, Salah Kamel and Loai Nasrat. Moth Swarm Algorithm for Reactive Power Dispatch Considering Stochastic Nature of Renewable Energy Generation and Load
09:00-10:30	Session B4: Renewable Energy-2 Chairmen: Prof. Almoataz Abdelaziz, Ain Shames University - Prof. Mohamed Orabi, Aswan University
162	Azza Mostafa, Omar Abdalla and Gamal Abdel-Salam. Technicial Overview of Connecting Small Scale Photovoltaic Systems in Egypt
223	Mostafa S. Fathy, Hilmy Awad, Hosam Hegazy and E.E. Elkholy. Optimization of the Dynamic Performance of a Photovoltaic-Wind Hybrid-Energy System using the Particle Swarm Technique
229	Youssef Hassan, Mohamed Orabi, Mohamed Ismeil and Abdulaziz Alshareef. Optimum Off-Grid PV System Sizing, Case of Study: Aswan Egypt



232	Samia Abdalfatah, Hilmy Awad, Hosam Hegazy and E.E. Elkholy. Hybrid PV/FC System Design and Simulation
249	Sayed Abulanwar, Abdelhady Ghanem, Mohammad Rizk and Islam Ismail. Mitigation of DC Wind Farm Power Fluctuations Based Battery Energy Storage System
267	Ataf M. Mansour, Osama M. Arafa, Mostafa I. Marei, Ibrahim Abdelsalam, Ghada A. Abdel Aziz and Ahmed A. El-Sattar. Seamless Control for a PV System During Transitions Between Grid Connection And Standalone Operation
09:00-10:30	<p>Session C4: Power Electronics-3 Chairmen: Prof. Fathy Abdelkader, Menoufia University - Prof. Elwy EL-Kholy, Menoufia University</p>
192	Mokhtar Aly, Emad M. Ahmed, Samir Kouro and Masahito Shoyama. Capacitor Voltage Ripple Reduction Modulation Method for String Photovoltaic Inverters
286	Sherif Dabour, Mohammed Zewail, Diaa-Eldin A. Mansour and Essam Rashad. Carrier-based PWM Techniques for Current-fed Quasi-Z-Source Converters
39	Alaaeldien M.M.Hassan, Xu Yang, Ahmed I. M. Ali, Taiea. A. Ahmed and Ahmed M. Azmy. A Study of Level-Shifted PWM Single-phase 11-Level Multilevel Inverter
51	Essam Hendawi. Analysis, Simulation and Comparison between H6 Transformer-less Inverter Topologies
140	Fatma Selim, Mohammed Orabi and Mohamed Z. Youssef. Eight-switch Converter using PMSG Based WECS for Stand-alone Applications
33	Arafa S. Mansour and Dina S. M. Osheba. Performance of a Single-Stage Buck-Boost Inverter Fed from a Photovoltaic Source Under Different Meteorological Conditions
09:00-10:30	<p>Session D4: AI in Power Systems-2 Chairmen: Prof. Ramadan Mahmoud, Beni-Suef University - Prof. Ahmed Azmy, Tanta University</p>
8	Avirup Maulik, Debapriya Das and Alok Jain. Optimal scheduling of an Islanded Microgrid with complex impedances considering load demand and renewable power uncertainties
11	Hazem H. Mostafa and Amr M. Ibrahim. Performance Investigation for Tracking GMPP of Photovoltaic System under Partial Shading Condition using Coyote Algorithm
25	Hazem H. Mostafa and Amr M. Ibrahim. Design and Analysis of DC-DC Converters with MPPT Controller based on Salp Swarm Algorithm for a Grid-Connected PV System
14	Shaimaa R. Spea. Combined Economic Emission Dispatch Solution of an Isolated Renewable Integrated Micro-Grid using Crow Search Algorithm
28	M. G. El-Sayed, M. A. El-Hameed and M. M. El-Arini. Single and Multi-Objective Optimal Allocation of Multi-Type Distributed Generators in Radial Distribution Networks Using Water Cycle Algorithm
53	Mohamed Abdallah Mahmoud Shaheen, Said Fouad Mekhamer, Hany Mohamed Hasanien and Hossam Eldeen Abdallah Talaat. Optimal Power Flow of Power Systems Using Hybrid Firefly and Particle Swarm Optimization Algorithm
09:00-10:30	<p>Session E4: Protection-2 Chairmen: Prof. Sobhy Serry, Port Said University - Prof. Mousa A. Awad, Benha University</p>
35	Arafa S. Mansour and Ayman A. Amin. Proposed Open-Circuit Faults Detection Using Control Charts Technique
196	Mohamed Kamal, Heba Sharaf, Mahmoud Sayed and Doaa Khalil. Enhanced Two-Fault Point Multi-Objective Coordination Scheme for Directional Overcurrent Relays in Meshed Distribution Networks Considering Fault Severity
83	Diaa-Eldin A. Mansour and Eman S. Ahmad. Power Differential Protection for Transmission Lines with Superconducting Fault Current Limiters
170	Ahmed Emam, Hany Elghazaly and Ahmed Ismail. Elimination of Zero Sequence Currents Effect on Differential Protection for Power Transformers Connected to Power Grid



117	A. S Abd-Elatif, S.M Mohammed and M. R Ibraheem. A Novel Busbar Protection Based on Correlation Technique
15	Ahmed K Ryad, Ahmed M Atallah and Abdelhalim Zekry. Accurate Fault Diagnosis Technique for Series Parallel PV Array
10:30-11:00	Break
11:00-12:30	Session A5: Power Systems Control-2 Chairmen: Prof. Omar H. Abdalla, Helwan University - Prof. Abdel-Ghany Mohamed, Helwan University
285	Omar H. Abdalla, Hady H. Fayek and A.M. Abdel Ghany. Secondary Voltage Control of a Multi-region Power System
175	Mohamed Eltohamy, Mohammed Abd El Moteleb, Hossam Talaat, Said Mekhamer and Walid Omran. Analyzing wind power ramps for high penetration of variable renewable generation
181	Safaa Awad-Alla, Gaber Elsaady, Ali Youssef and Alnobi Ibrahiim. Effect of Wind Driven Double-Fed Induction Generator upon the Stability of decentralized power systems via Load Frequency Controllers design
217	Esam H Abdelhameed, Reem Yousry Abdelghany and Ammar Mostafa Hassan. Disturbance Estimation and Compensation for High-Precision Point-to-Point Motion Control
245	Nesma A. Abdelnaby, Ahmed H. Yakout and Hany M. Hasanien. Over Frequency Problem Mitigation Using Grasshopper Based PID Auxiliary Governors
59	Avirup Maulik, Debapriya Das and Alok Jain. Improvement of the dynamic performance of an Islanded DC Microgrid using Optimized Virtual Inertia
11:00-12:30	Session B5: Power Quality-2 Chairmen: Prof. Fahmy Bendary, Benha University - Prof. Osama Mohamed, Florida International University, USA
191	Sohair M. Allam, Tamer Fetouh and Asmaa A. Ebrahim. Optimal Allocation of Reactive Power Compensation in a Distribution Network with Photovoltaic System Integration
123	Ehnaish Aburaghiega, Mohamed Farrag and Mohamed Gouda. On-line Condition Monitoring of Power Transformer Health Status Enforced by Temperature and Electrical Signatures
226	Adel A. Elbaset, Montaser Abd El Sattar, Ali H. Kasem Alaboudy and Wessam A. Hafez. Power Quality Issues of Grid Connected Wind Energy System Focus on DFIG and Various Control Techniques of Active Harmonic Filter: A review
182	Ahmed M. Abd El-Gawad, Mohiy E. Bahgat, A. M. Abdel Ghany and Alaa Nour Eldeen. BELBIC Load Frequency Controller Design for a Hydro-Thermal Power System
261	Ahmed Elgebal. Optimized Design of Single Turn Transformer of Distributed Static Series Compensators using FEM based on GA
277	Haytham Ibrahim, Doaa M. Yehia and Ahmed M. Azmy. Power Quality Investigation of Distribution Networks with High Penetration of Solar Energy
11:00-12:30	Session C5: Electric Drives-2 Chairmen: Prof. Mohamed A. Bader, Ain Shames University - Prof. Sabry Abdellatif, Menoufia University
60	Mahmoud A. Mossa and Silverio Bolognani. Predictive Power Control for a Linearized Doubly Fed Induction Generator Model
147	Asmaa Fawzy Rashwan. An Indirect Self-Tuning Speed Controller Design for DC Motor Using A RLS Principle
21	Ahmed A. Zaki Diab, Abdelsalam A. Ahmed and Hany A. Abdelsalam. Fuzzy-based Adaptive Sliding Mode Control for a Direct-Driven PMSG Wind Energy System
202	Mohamed Taha Gabriel, Ashraf Salah El Din Zein El Din and Attia S. Azzam. Modeling and fuzzy based computed torque control of a multi-degree of freedom robotic manipulator



220	Ahmed Ibrahim Soliman, Ahmed Farhan, Billel Kahia and Ralph Kennel. Direct Sensorless Model Predictive Control of Induction Motor for Three-Level NPC Inverter based on Extended Kalman Filter
275	Essam M. Rashad, Said M. Allam and Sara M. Ismaeel. Current Vector Control Techniques of Five-Phase Synchronous Reluctance Motor Drive Systems
11:00-12:30	<p>Session D5: Generation, Transmission and Distribution-2 Chairmen: Prof. Adel Abou El-Ela, Menoufia University- Prof. Sayed Tag- Eldin, Cairo University</p>
225	Christeen G. Boktor, Abdel-Raheem Youssef, Salah Kamel and Abdalla Ahmed. Optimal DG Allocation in Radial Distribution Networks Using a Combined Approach Consisting Particle Swarm Optimization, Grey Wolf Optimizer and Loss Sensitivity Factor
138	Ahmed Osama, W.I. Wahba and Magdy B. Eteiba. Self-Mitigation of Magnetic Field near Overhead Power Lines Using Evolutionary Algorithms
239	Mohamed Abdelkader, Ali Selim, Salah Kamel and Francisco Jurado. Optimal Placement of Phasor Measurement Units for State Estimation of Electrical Power Systems
167	Mohamed Samy, Ahmed Emam and Ahdab Elmorshedy. Field Profiles Underneath and Between Proposed Hybrid Power Lines in Egyptian Grid
174	Nagat M. K. Abdel-Gawad, Essam M. Shaalan, Mohamed M. F. Darwish and Mahmoud A. M. Basuny. Influence of Fault Locations on the Pipeline Induced Voltages Near to Power Transmission Lines
40	F. Selim and Mohamed I. Abd-Elwanis. A Newly On-Time Following Up Electrical Earthing System Technology
11:00-12:30	<p>Session E5: High Voltage-2 Chairmen: Prof. Ahdab El-Morshedy, Cairo University - Prof. Diao-Eldin Mansour, Tanta University</p>
47	Asmaa Ibrahim, Ahmed Gad, Loai Nasrat and Soliman Eldebeiky. Effect of ZnO Nanoparticles on Impulse Breakdown Characteristics of Mineral Oil
168	Sobhy. S. Dessouky, Saad A. Mohamed Abdelwahab and Mohammed Shaban. Enhancement of Traditional Maintenance Systems for Miniature Circuit Breakers Using Nanoparticles
233	I. M. Shindy, Amr M A Amin and Diao-Eldin A. Mansour. Advanced Numerical Simulation Of Three-Phase Magnetic Shielding Superconducting Fault Current Limiter
278	Diao-Eldin A. Mansour, Hanaa M. Ahmed and Alaa M. Salman. The Effect of Surface Modification of Titania Nanoparticles on the Dielectric Properties of Nanofluids
240	Mohamed A. Afifi, Ahmed H. Gad and Salem M. Elkhodary. Electrical Tracking and Erosion of Silicone Rubber Filled with Alumina Tri-Hydrate
231	Samar Akef, Ahdab Mohamed Kamel El-Morshedyel-Morshedy, Ahmed Mohamed Emam and Mohamed Mahmoud Samy. Safe Grounding Grid Design for Converter Station
12:30-14:00	<p>Session A6: Power System Analysis-2 Chairmen: Prof. Mazen Abdelsalam, Assiut University - Prof. Abdelhay Sallam, Port Said University</p>
183	A. A. Abou El-Ela, S. M. Allam and N. A. Nagem. Optimal Assessment of Hybrid Wind Energy with Fuel Cell for Supplying Distribution Network in Egypt
204	Ahmed E. Shaban, Khalid H. Ibrahim and Tamer M. Barakat. Modeling, Simulation and Classification of Power Transformer Faults Based on FRA Test
198	Walid S. E. Abdellatif, Ali H. Kasem Alaboudy and Ahmed M. Azmy. Comparison Between Outer Crowbar and RSFCL for LVRT Capability Enhancement of Wind Turbines Conversion System
22	Hassan Youssef, Hany Hasanien, Ahmad Besheer and Almoataz Abdelaziz. Grey Wolf Algorithm as a Solution for Cascading Control Problem in Converter Based HVDC Energy Transmission System
212	Adel Abou El-Ela, Mohamed Kamal, Ragab Ahmed and Tamer Fetouh. Partical Swarm Optimization Tuning Based Controlled Series FACTS for Power System Stability Enhancement



265	I. M. Shindy, S. Hasan and Mostafa M. Hassan. Finite Element Model Of A Novel Three-Phase Inductive Saturated-Core Fault Current Limiter
12:30-14:00	Session B6: Distributed Generation-2 Chairmen: Prof. Magdi El-Saadawi, Mansoura University - Prof. Hany A. Abdelsalam, Kafrelsheikh University
158	Mostafa Elshahed, Doaa Khalil and Mostafa Magdy. Impacts of Distributed and Centralized Grid-Connected PV on Radial Distribution Networks
160	Hussein Abdel-Mawgoud, Salah Kamel, Mansur Khasanov and Loai Nasrat. Simultaneous Allocation of Multiple Distributed Generation Units in Distribution Networks Using Chaotic Grasshopper Optimization Algorithm
171	Ahmed Refai, Mohamed Ebeed and Salah Kamel. Combined Economic and Emission Dispatch Analysis Using Lightning Attachment Procedure Optimizer
219	Ali Selim, Salah Kamel, Francisco Jurado and Sahbi Marrouchi. Developed Algorithm Based on Lightning Search Optimizer and Analytical Technique for Allocation of Distribution Generators
238	Ahmed Elmelegi, Mokhtar Aly, Emad M. Ahmed and Mohammed M. Alhaider. An Efficient Low-Cost Distributed MPPT Method for Energy Harvesting in Grid-Tied Three-Phase PV Power Optimizers
172	Ahmed Hafez and Mohamed Elsherbiny. Technical and Economical Feasibility of Proposed Assiut University Rooftop PhotoVoltaic Installation
12:30-14:00	Session C6: Electrical Machines Chairmen: Prof. Abbas A. El-Hefnawy, Menoufia University - Prof. Abdelsalam Ahmed, Tanta University
61	Mahmoud A. Mossa, Omar Makram Kamel and Silverio Bolognani. Explicit Predictive Voltage Control for an Induction Motor Drive
114	Khaled Amin, Rizk Hamouda, Ahmed Elkoshairy and Maher El-Dessouki. Dynamic Analysis of Electromechanical Oscillations in Cascaded Induction Motors Driving Different Loads
151	Bassam Samy, Mohamed Shalaby, Khairy Farahat and Mohamed Ahmed. Coupled Finite Element-Circuit Modelling and Parameter Estimation of Six-Phase Induction Motor
177	Said M. Allam. Performance Analysis and Enhancement of a PV Fed Sensorless BLDC-Motor for an Efficient Water-Pumping System
264	Mostafa A. Ali, Mona F. Moussa and Y.G. Dessouky. Designing a Magnetic Amplifier Used For DC Motor Speed Control
276	Mohamed Adel, Elhussien Abbas and Hussein Farid. Improved Speed Sensor-Less Dynamic Performance of A Five-Phase Induction Motors Drive Based Wiener Filter
12:30-14:00	Session D6: AI in Power Systems-3 Chairmen: Prof. Shaban Osheba, Menoufia University - Prof. Ragab El-Sehiemy, Kafrelsheikh University
80	Ahmed Hafez. Synergy of Bacterial Foraging Algorithm and Particle Swarm Optimization for Secure Power System Operation
81	Mohamed Taleb, Ahmed Ayman Ali, Aboubaker Salem and Maged Abouazma. Advanced Method for Optimal Allocation of FACTS Devices Using Line Stability Index Combined with Meta-Heuristic Optimization Techniques
97	Ashraf Ramadan, Mohamed Ebeed, Salah Kamel and Loai Nasrat. Optimal Allocation of Hybrid Solar-Wind Distributed Generations in Distribution Networks Considering the Uncertainty Using Grasshopper Optimization Algorithm
178	W. S. Sakr, Hossam A. Abd El-Ghany, Ragab A. El-Sehiemy and Ahmed M. Azmy. A day-ahead optimal RERs scheduling approach for virtual power plants considering different loading conditions
13	F. Selim and Mohamed I. Abd-Elwanis. Optimal Operation of Synchronous Motor Using Particle Swarm Optimization and Jaya Techniques



189	Nourhan Elbehairy, Rania Swief, Amr Abdin and Tarek Abdelsalaam. Maximum Power Point Tracking For a Stand Alone PV System Under Shading Conditions Using Flower Pollination Algorithm
12:30-14:00	<p>Session E6: Micro-grids</p> <p>Chairmen: Prof. Amr Amin, Helwan University - Prof. Loai S. Nasrat, Aswan University</p>
77	Sayed Mohamed, Mohamed Mokhtar and Mostafa I. Marei. A Control Strategy for Hybrid Islanded Microgrid
94	Mohamed Abdelaziz Ahmed, Doaa Khalil Ibrahim and Mahmoud Gilany. Electric Spring Technology in Small Scale Residential Microgrid
135	Hussein Abubakr, Tarek Hassan Mohamed, Mahmoud M. Hussein and G. Shabib. ESO-Based Self Tuning Frequency Control Design for Isolated Microgrid System
152	Mohammed M. Lubbad, Noha H. El-Amary and Almoataz Y. Abdelaziz. Sliding Mode Control for Hybrid Power Sources Micro-grid
169	Khairy Sayed, Ahmed M. Kassem, Ismail Aboelhassan, Abdelmaged M. Aly and Ahmed G. Abo-Khalil. Energy Management and Control Strategy of DC Microgrid Including Multiple Energy Storage Systems
255	Aliaa M. Fadel, Andrew M. Ibrahim, Ahmed K. Tamazin, Ragi Ali Hamdy and Ayman S. Abdel-Khalik. IoT-Based Power Management for DC Microgrids
14:00-14:20	<p>Invited Talk: Dr. Mohamed Galeela, University of Manchester, UK</p> <p>“Reliability and resilience for future smart grids”</p> <p>Chairmen: Prof. Esam Rashad Tanta University</p>
14:20-14:45	Closing Ceremony
14:45-15:45	Lunch