

Contents

PTS techniques assessment for improving PAPR reduction in LTE and Advanced LTE Mesri Mokhtaria, Tahkoubit Khaled and Merah Hocine.	1-7
Modeling and Simulation of the Lightning Return Stroke Current Using Electromagnetic Models and the 3D-FDTD Method Kaddour Arzag, Zin-Eddine Azzouz and Boualem Ghemri.	8-12
Optimal Power Flow Solution using Ant Lion Optimizer Algorithm Salhi Ahmed, Naimi Djemai and Bouktir Tarek.	13-18
Erbium-Doped Fiber Amplifier Review Belloui Bouzid.	19-23
Incorporation of sliding mode control and PID for dynamic stability enhancement Abdelghani Choucha, Lakhdar Chaib and Salem Arif.	24-28
Energy Management System for Battery/Ultracapacitor Electric Vehicle with Particle Swarm Optimization Akif Demircali, Selim Koroglu, Selami Kesler, Peter Sergeant, Erkan Ozturk and Mustafa Tumbek.	29-33
Advances and Challenges in WBG Devices and their Applications in Power Conversion and Conditioning Omrane Bouketir.	34-40
Technical and Economic Feasibility Analysis of Electrical Generation in Libya using Wind Power Nouri Alkishriwi and Hamid Sherwali.	41-47
Based FE design and performance enhancement of a PMSM intended for a leisure electric vehicle Radhia Jebahi, Nadia Chaker, Helmi Aloui and Moez Ayadi.	48-55
The Economics of Solar Thermal Electricity (STE) in Libya Mohamed Mashena and Nouri Alkishriwi. Department of Mechanical Engineering, University of Tripoli, Libya	56-61
Finite element comparative analysis software of a radial flux permanent magnet synchronous motor for electric vehicle drive Rihab Abdelmoula, Naourez Benhadj, Mohamed Chaieb and Rafik Neji.	62-67
Iron losses minimization case applied for the optimization of an embedded hybrid claw pole alternator Moufida Klach, Nadia Chaker Aloui, Helmi Aloui and Rafik Neji.	68-75
Why suggested hybrid architecture -Mapreduce Massive Parallel Processing meter data repository- for a Smart Grid? Abdeslam Mehenni, Zaia Alimazigui and Mohamed Ahmed-Nacer.	76-82
Closed Loop Torque and Speed Control of Switched Reluctance Motor for Hybrid Electrical Vehicle Propulsion Mohamed Yaich, Mohamed Radhouan Hachicha and Moez Ghariani.	83-88

Sizing and Optimization for Hybrid Central in South Algeria Based on Three Different Generators Chouaib Ammari, Messaoud Hamouda and Salim Makhloufi.	89-94
STATCOM for transient stability improvement between wind farm (CSIG/DFIG) and synchronous generator (SG) Bouhadouza Boubekeur and Bouktir Tarek.	95-100
Methodology for Modeling of the Mechanical Part of an Anti-lock Braking System by Bond Graph Jamel Ben Salem, Mohamed Najeh Lakhoua and Lilia El Amraoui.	101-106
Synthesis and interest in hybridization of autonomous renewable multi-source systems under constraints of embodied energy GHG emissions life cycle cost and loss of power supply probability Habib Cherif and Jamel Belhadj.	107-112
Dynamic Optimal Power Flow with Wind Penetration Using Differential Evolution Technique Nacira Brik, Linda Slimani and Tarek Bouktir.	113-118
Characterization and control of a craft mill driven by induction motor fed by photovoltaic mini-grid Moustapha Diop, Wahib Khairi, Lamine Thiaw, Mehdi Turki and Jamel Belhadj.	119-124
Detection of Eccentricity Fault in Closed-Loop Induction Motor drive using Wavelet Transform Rouaibia Reda, Arbaoui Faycel and Bahi Tahar.	125-130
Security Routing Protocols in Ad Hoc Networks: Challenges and Solutions Sliman Yaklaf and Sliman Yaklaf.	131-135
Offshore Wind Turbines Integration improvement in the electric network: A case study of the Tunisian electricity distribution network (ASHTART) Raida Sellami, Rafik Neji and Tarek Bouktir.	136-141
Application of System Modeling of the Renewable Energy Production Raja Glaa, Mohamed Najeh Lakhoua and Lilia El Amraoui.	142-146
Optimal Power Flow for Combined AC and Multi-Terminal HVDC Grids with large penetration of wind farm Ramzi Kouadri, Linda Slimani and Tarek Bouktir.	147-153
Model of stand-alone photovoltaic module Soltana Guesmi, Moez Ghariani, Moez Ayadi and Rafik Neji.	154-158
Study of an electric traction chain performance for person with reduced mobility in ADVISOR tool Asma Bouazizi, Moez Ghariani and Samir Ben Salem.	159-164
Direct Power Control Based on PI Controller for PWM Voltage Source Converters Aziz Boukadoum, Tahar Bahi and Abla Bouguerne.	165-169
Advanced Feature Extraction Approach of Induction Machine Faults Abla Bouguerne, Abdesselam Lebaroud and Aziz Boukadoum.	170-175
An Equivalent Circuit Planar Magnetics Inductors Model vs air gap and Parameter Extraction Based on the Genetic Algorithm Aymen Ammouri, Tarek Ben Salah and Ferid Kourda	176-181

Identification of IM Parameters Using Finite Element Model for EVs application Youssef Dhieb, Mohamed Radhouan Hachicha, Moez Ghariani and Rafik Neji.	182-186
On-Line Monitoring and Classification of Stator windings Faults in Induction Machine Using Fuzzy Logic and ANFIS Approach Hichem Merabet, Tahar Bahi, Djalel Drici, Bedoud Khouloud and Boudiaf Adel.	187-192
Design of 4 Elements Rectangular Patch Antennas with High Gain Samia Gamouh and Abdelhafid Chaabi.	193-195
Field computation with finite element method applied for diagnosis eccentricity fault in induction machine Mohammedi Moufid and Bahi Tahar.	196-200
Control of a wind micro-grid system based on doubly fed induction machines Lema Gharsellaoui and Moez Ghariani.	201-207
Phase Opposition Disposition PWM Strategy and Capacitor Voltage Control for Modular Multilevel Converters Imen Ouerdani, Afef Bennani Ben Abdelghani, Ilhem Slama Belkhouja and Daniel Montesinos Miracle.	208-213
Reconfigurable ANPC converter PWM strategy for an improved junction temperature distribution Hanan Messaoudi, Afef Benneni Ben Abdelghani, Najiba Mrabet Bellaaj and Mohamed Orabi.	214-219
Active Filtering and Power Factor Correction for Electric Vehicles Mariem Tayari, Abdessattar Guermazi and Moez Ghariani.	220-225
Sensorless Speed Control of salient pole PMSM According to the Backstepping Observer Salah Nadji and Samira Benaicha.	226-231
Optimal Sizing and Placement of Multiple Distributed Generation in Radial Distribution Networks considering Uncertainty in the Variation of Loads Boukaroura Abdelkader, Slimani Linda and Bouktir Tarek.	232-238
Optimal use of TCSC and Wind farm using metaheuristic ABCWS technique Sebaa Haddi, Bouktir Tarek and Bouktir Omrane.	239-244
Analysis and Modeling of a Wind Power System based on SysML Khouloud Nasraoui, Mohamed Najeh Lakhoua and Lilia El Amraoui.	245-249
Voltage stability of the Libyan network after its enhancement by new mobile generators. Hamid Sherwali and Rabia M. Ali.	250-255
Virtual Reference Model and Disturbance Rejection based Fuzzy Tracking Control for a PMSM Djamel Ounnas, Messaoud Ramdani, Tarek Bouktir and Salah Chenikher.	256-262
Impact of RDG Penetration on IDMT Overcurrent Relay Operation in Radial MV Distribution System Kaouthar Melizi, Karim Sebaa, Mohamed Zellagui, Abdelhafid Tlemçani and Abdelaziz Chaghi.	263-268
Automating the Service Identification from BPMN Diagrams Ali Seridi and Lynda Dib	269-271

Design, Control and Simulation of a Grid Emulator for Standards Requirements Based Compliance Testing of Grid Connected Photovoltaic Invert Hiba Boughorra Seddik, Sondes Skander Mustapha, Houda Ben Attia Sethom and Ilhem Slama Belkhodja.	272-277
Optimum Distribution Network Reconfiguration Using Firefly Algorithm Chabane Djabali, Boukaroura Abdelkader, Nadhir Ketfi and Bouktir Tarek.	278-283
Sliding Mode Control for Speed's Tracking of an Electrical Vehicle Alaeddine Ben Jridi, Nadia Chaker Aloui, Helmi Aloui and Rafik Neji.	284-289
Implementation of a PV Panel Model based on the Look-up Tables Method for a PV Generator Emulator Manelle Hasnaoui, Afef Ben Abdelgha-Bennani and Ilhem Slama-Belkhodja.	290-295
Segmentation of the Weld Radiographic Images by the Level Set Method using the Kernel Fuzzy C-Means Clustering Nabil Chetih, Naim Ramou, Yamina Boutiche and Mohamed Sahnoun.	296-300
Comparative Study of Wind Energy Conversion System Driven by Matrix Converter and AC/DC/AC Converter Bedoud Khouloud, Bahi Tahar and Merabet Hichem.	301-306
A Hybrid Differential Evolution with Biogeography-Based Optimization for the Solution of Optimal Power Flow with Consideration of FACTS Devices "UPFC" Ouafa Herbadji , Linda Slimani and Tarek Bouktir.	307-312
Model reference adaptive sliding mode drive for permanent magnet double rotor motor Zohra Njajra, Dhia Elhak Chariag, Aymen Flah and Lassaad Sbita.	313-318