



EEE MATLAB 2016 Projects List

S.NO	TITLE	YEAR
1.	A Capacitor Voltage-Balancing Method for Nested Neutral Point Clamped (NNPC) Inverter	2016
2.	A Hybrid Solar - Wind Energy System with Battery Storage using a New Configuration of Control Strategy with Three Level NPC Inverter	2016
3.	A Hybrid-STATCOM with Wide Compensation Range and Low DC-Link Voltage	2016
4.	A New Cascaded Switched-Capacitor Multilevel Inverter Based on Improved Series-Parallel Conversion with Less Number of Components	2016
5.	A Novel Five-Level Voltage Source Inverter with Sinusoidal Pulse Width Modulator for Medium-Voltage Applications	2016
6.	A Novel Multilevel Multi-Output Bidirectional Active Buck PFC Rectifier	2016
7.	A Novel Ten-Switch Topology for Unified Power Quality Conditioner	2016
8.	A Predictive Control Scheme for a Dual Output Indirect Matrix Converter	2016
9.	A PWM Plus Phase-Shift Controlled Interleaved Isolated Boost Converter Based on Semi active Quadrupler Rectifier for High Step-Up Applications	2016
10.	A Robust LQG Servo Control Strategy of Shunt Active Power Filter for Power Quality Enhancement	2016
11.	A Single-phase Four-Switch Rectifier with Significantly Reduced Capacitance	2016
12.	A Single-phase PV Quasi-Z-source Inverter with Reduced Capacitance using Modified Modulation and Double-Frequency Ripple Suppression Control	2016
13.	An Adaptive SPWM Technique for Cascaded Multilevel Converters with Time-Variant DC Sources	2016
14.	An Enhanced Single Phase Step-Up Five-Level Inverter	2016
15.	An Islanding Detection Method for Inverter-Based Distributed Generators Based on the Reactive Power Disturbance	2016
16.	Buck-boost-flyback integrated converter with single switch to achieve high voltage gain for PV or fuel-cell applications	2016
17.	Cascaded Dual Model Predictive Control of an Active Front-End Rectifier	2016
18.	Circulating current derivation and comprehensive compensation of cascaded STATCOM under asymmetrical voltage Conditions	2016
19.	Comprehensive Analysis of a Novel Three-Phase Multilevel Inverter with Minimum Number of Switches	2016
20.	Control of Ripple Eliminators to Improve the Power Quality of DC Systems and Reduce the Usage of Electrolytic Capacitors	2016
21.	Control of Three-phase Bidirectional Current Source Converter to Inject Balanced Three-phase Currents under Unbalanced Grid Voltage Condition	2016



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S.NO	TITLE	YEAR
22.	Decoupled Dc-Link Capacitor Voltage Control of Dc-Ac Multilevel Multileg Converters	2016
23.	Design and implementation of a novel three-phase cascaded half-bridge inverter	2016
24.	Design of External Inductor for Improving Performance of Voltage Controlled DSTATCOM	2016
25.	Development and Comparison of an Improved Incremental Conductance Algorithm for Tracking the MPP of a Solar PV Panel	2016
26.	Diagnosis of single-phase open-line fault in three-phase PWM rectifier with LCL filter	2016
27.	Direct Modular Multilevel Converter With Six Branches for Flexible Distribution Networks	2016
28.	DPC based Artificial Intelligence	2016
29.	Discrete-Time Repetitive Control of Flyback CCM Inverter for PV Power Applications	2016
30.	DSTATCOM supported induction generator for improving power quality	2016
31.	Dynamic voltage restorer employing multilevel cascaded H-bridge inverter	2016
32.	Effect of circulating current on input line current of 12-pulse rectifier with active inter-phase reactor	2016
33.	Effect of UPFC on Stability of a Power System with Integrated Wind Energy Generation System	2016
34.	Enhancement of Performance, Availability, and Flexibility of a Battery Energy Storage System Based on a Modular Multilevel Cascaded Converter (MMCC-SSBC)	2016
35.	Enhancing DFIG wind turbine during three phase fault using parallel interleaved converters and dynamic resistor	2016
36.	Fuzzy Logic Control Based Permanent Magnet Synchronous Generator with Sepic Converter for Wind Energy Conversion System	2016
37.	Generation of Higher Number of Voltage Levels by Stacking Inverters of Lower Multilevel Structures with Low Voltage Devices for Drives	2016
38.	Grid connected three-phase multiple-pole multilevel unity power factor rectifier with reduce components count	2016
39.	High frequency inverter topologies integrated with the coupled inductor bridge arm	2016
40.	High-Performance Constant Power Generation in Grid-Connected PV Systems	2016
41.	Modulation and Control of Transformerless UPFC	2016
42.	Power Quality Improvement for Grid Connected Wind Energy System Using Statcom Control Scheme	2016
43.	Power Quality Improvement of PMSG Based DG Set Feeding Three-Phase Loads	2016
44.	Power-Electronics-Based Energy Management System With Storage	2016
45.	Sensorless control scheme for synchronous buck converter	2016
46.	Simulation of Modified P&O MPPT Technique for Solar PV Cell Using MATLAB/SIMULINK	2016
47.	Transformerless Single-Phase Universal Active Filter with UPS Features and Reduced Number of Electronic Power Switches	2016

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S.NO	TITLE	YEAR
48.	Wind-Solar Grid connected Renewable Energy System with Series Active Self Tuning Filter	2016
49.	A Novel Control Method for Transformer less H-Bridge Cascaded STATCOM With Star Configuration	2015
50.	A Cost-Effective Sensorless Variable-Speed Wind Energy System	2015
51.	New Three-Phase Symmetrical Multilevel Voltage Source Inverter	2015
52.	A New Isolated Multilevel Inverter Based on Cascaded Three-Phase Converter Blocks	2015
53.	Application of a New High Step-up Double-Input Converter in a Novel Module-Integrated-Inverter Photovoltaic System	2015
54.	Application of Integrated Series Compensator in Damping Power Oscillations in Standalone Microgrids	2015
55.	A Novel Method for Reference Signals Generation Applied to UPQC-PHEV for Grid Integration of WECS-SCIG	2015
56.	DC/DC Buck Power Converter as a Smooth Starter for a DC Motor Based on a Hierarchical Control	2015
57.	Seventeen-Level Inverter Formed by Cascading Flying Capacitor and Floating Capacitor H-Bridges	2015
58.	DTC-SVM Control Strategy for Induction Machine based on Indirect Matrix Converter in Flywheel Energy Storage System	2015
59.	Fast Detection of Open-Switch Fault in Cascaded H-Bridge Multilevel Converter	2015
60.	Fault Ride-Through Capability Improvement of DFIG-Based Wind Turbine by Employing a Voltage-Compensation-Type Active SFCL	2015
61.	Flyback Mode for Improved Low-Power Efficiency in the Dual-Active-Bridge Converter for Bidirectional PV Microinverters With Integrated Storage	2015
62.	A Quasi-Z-Source Direct Matrix Converter Feeding a Vector Controlled Induction Motor Drive	2015
63.	An Adaptive Power Oscillation Damping Controller by STATCOM With Energy Storage	2015
64.	An Electrolytic-Capacitor-Free Single-Phase High-Power Fuel Cell Converter With Direct Double-Frequency Ripple Current Control	2015
65.	A Quad Two-Level Inverter Configuration for Four-Pole Induction-Motor Drive with Single DC Link	2015
66.	Integration of Wind Power and Wave Power Generation Systems Using a DC Microgrid	2015
67.	A Robust DC-Link Voltage Control Strategy to Enhance the Performance of Shunt Active Power Filters Without Harmonic Detection Schemes	2015
68.	An Observer-Based Optimal Voltage Control Scheme for Three-Phase UPS Systems	2015
69.	A Novel and Simple Single-Phase Modulator for the Nested Neutral-Point Clamped (NNPC) Converter	2015
70.	A Hybrid Filter for the Suppression of Common-Mode Voltage and Differential-Mode Harmonics in Three-Phase Inverters With CPPM	2015

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S.NO	TITLE	YEAR
71.	Novel Control Method for Reducing EMI in Shunt Active Filters with Level Shifted Random Modulation	2015
72.	Power Controllability of a Three-Phase Converter With an Unbalanced AC Source	2015
73.	Predictive Voltage Control of Three-Phase Voltage Source Inverters to Supply Nonlinear and Unbalanced Loads	2015
74.	Reduced Cost of Reactive Power in Doubly Fed Induction Generator Wind Turbine System With Optimized Grid Filter	2015
75.	Sensor less Control ofPMSG-Based Wind Turbine with Parallel Distributed Compensator with Fuzzy Observer	2015
76.	Stability Analysis of Networked Control in Smart Grids	2015
77.	Cascaded Control System of the Modular Multilevel Converter for Feeding Variable-Speed Drives	2015
78.	Transient and Steady States Analysis of Traction Motor Drive with Regenerative Braking and Using Modified Direct Torque Control (SVM-DTC)	2015
79.	Control of Parallel-Connected Modular Multilevel Converters	2015
80.	Virtual RC Damping of LCL-Filtered Voltage Source Converters With Extended Selective Harmonic Compensation	2015
81.	Comparison of Detailed Modeling Techniques for MMC Employed on VSC-HVDC Schemes	2015
82.	DC/DC Buck Power Converter as a Smooth Starter for a DC Motor Based on a Hierarchical Control	2015
83.	Decoupling of Fluctuating Power in Single-Phase Systems Through a Symmetrical Half-Bridge Circuit	2015
84.	Doubly Fed Induction Generator for Wind Energy Conversion Systems With Integrated Active Filter Capabilities	2015
85.	Performance of Three Phase II-level Inverter with reduced number of switches using different PWM Techniques	2015
86.	A New Reactive Current Reference Algorithm for the STATCOM System Based on Cascaded Multilevel Inverters	2015
87.	A Series-LC-Filtered Active Damper with Grid Disturbance Rejection for AC Power-Electronics-Based Power Systems	2015
88.	Frequency-Adaptive Fractional-Order Repetitive Control of Shunt Active Power Filters	2015
89.	Functional Modeling of Symmetrical Multipulse Autotransformer Rectifier Units for Aerospace Applications	2015
90.	Grid Voltage Synchronization for Distributed Generation Systems Under Grid Fault Conditions	2015
91.	Hybrid Active Filter With Variable Conductance for Harmonic Resonance Suppression in Industrial Power Systems	2015
92.	Isolated DC/DC Structure Based on Modular Multilevel Converter	2015
93.	Induction Motor Control With a Small DC-Link Capacitor Inverter Fed by Three-Phase Diode Front-end Rectifiers	2015

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S.NO	TITLE	YEAR
94.	Indirect Matrix Converter-Based Topology and Modulation Schemes for Enhancing Input Reactive Power Capability	2015
95.	Intelligent Islanding and Seamless Reconnection Technique for Microgrid With UPQC	2015
96.	Implementation of Hybrid Filter for 12-Pulse Thyristor Rectifier Supplying High-Current Variable-Voltage DC Load	2015
97.	Low-Volume PFC Rectifier Based on Nonsymmetric Multilevel Boost Converter	2015
98.	Modular Multilevel DC/DC Converters With Phase-Shift Control Scheme for High-Voltage DC-Based Systems	2015
99.	Modular Cascaded H-Bridge Multilevel PV Inverter With Distributed MPPT for Grid-Connected Applications	2015
100.	Nested Multilevel Topologies	2015
101.	A Single-Phase Active Device for Power Quality Improvement of Electrified Transportation	2015
102.	Optimal Control of Shunt Active Power Filter to Meet IEEE Std. 519 Current Harmonic Constraints Under Nonideal Supply Condition	2015
103.	Power Controllability of a Three-Phase Converter With an Unbalanced AC Source	2015
104.	Predictive Torque Control Scheme for Three-Phase Four-Switch Inverter-Fed Induction Motor Drives With DC-Link Voltages Offset Suppression	2015
105.	Pulse delay control for capacitor voltage balancing in a three-level boost neutral point clamped inverter	2015
106.	Single-Stage High Power Factor LED Driver in Continuous Conduction Mode	2015
107.	PV-Active Power Filter Combination Supplies Power to Nonlinear Load and Compensates Utility Current	2015
108.	Predictive Optimal Switching Sequence Direct Power Control for Grid Connected Power Converters	2015
109.	Reduction of Power Electronic Elements in Multilevel Converters Using a New Cascade Structure	2015
110.	Single-Carrier Phase-Disposition PWM Implementation for Multilevel Flying Capacitor Converters	2015
111.	Three-Phase Multilevel PFC Rectifier Based on Multistate Switching Cells	2015
112.	The Modular Multilevel Converter for High Step-Up Ratio DC–DC Conversion	2015
113.	Elimination of DC-Link Current Ripple for Modular Multilevel Converters With Capacitor Voltage- Balancing Pulse-Shifted Carrier PWM	2015
114.	A Wireless Charging System Applying Phase-Shift and Amplitude Control to Maximize Efficiency and Extractable Power	2015
115.	An Improved Control System for Modular Multilevel Converters with New Modulation Strategy and Voltage Balancing Control	2015
116.	Analysis and Mitigation of Resonance Propagation in Grid-Connected and Islanding Microgrids	2015
117.	Analysis of the Phase-Shifted Carrier Modulation for Modular Multilevel Converters	2015

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S.NO	TITLE	YEAR
118.	Application of PI and Super Twisting Drivers to Voltage Regulation of Wind farm via StatCom	2015
119.	Control Strategy for Improved Dynamic Performance of Variable-Speed Drives With Modular Multilevel Converter	2015
120.	Design of a Three-Level Hysteresis Controller for a Four-Leg Voltage Source Inverter in aPO Frame	2015
121.	Design Optimization of Directly Grid-Connected PM Machines for Wind Energy Applications	2015
122.	Hybrid Modulation of Dual Inverter for Open-End Permanent Magnet Synchronous Motor	2015
123.	Impacts of Grounding Configurations on Responses of Ground Protective Relays for DFIG-Based WECSs—Part I: Solid Ground Faults	2015
124.	Improving the Dynamic Stiffness in a Self-Sensing BLDC Machine Drive Using Estimated Load Torque Feedforward	2015
125.	Modeling and Analysis of Harmonic Stability in an AC Power-Electronics-Based Power System	2015
126.	Modeling and Fault Analysis of Doubly Fed Induction Generators for Gansu Wind Farm Application	2015
127.	An Improved iUPQC Controller to Provide Additional Grid-Voltage Regulation as a STATCOM	2015
128.	Study on the Application of a Flux-Coupling-Type Superconducting Fault Current Limiter for Decreasing HVdc Commutation Failure	2015
129.	Predictive Voltage Control of Three-Phase Voltage Source Inverters to Supply Nonlinear and Unbalanced Loads	2015
130.	Rotor Speed and Resistance Estimation Using Robust Extended Kalman Filter for Sensorless Vector Control of Induction Motor Drives	2015
131.	A Nine-Level Grid-Connected Converter Topology for Single-Phase Transformerless PV Systems	2014
132.	Control Strategies for AC Fault Ride Through in Multiterminal HVDC Grids	2014
133.	Wound Rotor Machine Fed by a Single-Phase Grid and Controlled by an Isolated Inverter	2014
134.	Direct Power Control of Doubly Fed Induction Generator Under Distorted Grid Voltage	2014
135.	Dynamic Behavior of DFIG Wind Turbine Under Grid Fault Conditions	2014
136.	Enhancing the Ride-Through Capability of DC-Link Voltage in NPC Multilevel Unified Power-Flow Controllers	2014
137.	Excitation Synchronous Wind Power Generators With Maximum Power Tracking Scheme	2014

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CONCEPTS:

- MATLAB/SIMULINK
- POWER SYSTEMS
 - PHOTO VOLTAIC CELLS
 - WIND POWER PLANTS(IG/DFIG)
 - ULTRA CAPACITORS
 - FUEL CELLS
 - HYBRID POWER PLANTS
 - SMART GRID
 - HVDC AND HVAC
 - CONCEPTS OF LOADS
 - POWER QUALITY
 - ETC....
- POWER ELECTRONICS
 - RECTIFIERS
 - INVERTERS
 - AC-AC CONVERTERS(CYCLO CONVERTER,MATRIX CONVERTERS)
 - DC-DC CONVERTERS(BUCK,BOOST,BUCKBOOST,SEPIC,FLYBACK,CUK)
 - MULTI LEVEL CONVERTERS (CHBMLC, FCMLC, DCMLC.HYBRIDMLC)
 - PWM (SPWM,SVPWM,CBPWM,MCPWM,SVM)
 - ETC....
- MACHINES
 - MODELLING AND DESIGNING OF INDUCTION MOTOR
 - MODELLNG AND DESIGNING OF DC MOTOR
 - MODELLING AND DESIGNING OF PMBLDCM
 - VECTORAND SCALER CONTROLLER
 - ETC....
- CONTROL SYSTEMS
 - PI CONTROLLER
 - FUZZY CONTROLLER
 - NEURAL NETWORKS,ARTIFICIAL NEURAL NETWORKS
 - NEURO FUZZY
 - ETC...
- OPTIMIZATION CONCEPTS
 - GENETIC ALGARITHM
 - PARTICAL SWARM OPTIMIZATION
 - BACTERIAL OPTIMIZATION
 - PLANT GROWTH OPTIMIZATION
 - ETC...
- FACTS
 - SHUNT CONVERTERS, SERIES CONVERTERS, SERIES SHUNT CONVERTES, ETC.....