



**JP INFOTECH**

SOFTWARE DEVELOPMENT & RESEARCH DIVISION

[www.jpinfotech.org](http://www.jpinfotech.org)

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**2016 - 2017 EEE IEEE FINAL YEAR Projects @ JP INFOTECH**

S.NO	Project Code	IEEE 2016-17 EEE Project Titles	Domain	Year
Bi-Directional Converter, Bridgeless Converter, Interleaved Converter				
1	JPEEE1601	A Bidirectional Three-Level LLC Resonant Converter With PWAM Control	EEE	2016
2	JPEEE1602	High Step-Up/Step-Down Soft-Switching Bidirectional DC-DC Converter With Coupled-Inductor and Voltage Matching Control for Energy Storage Systems	EEE	2016
3	JPEEE1603	Bidirectional Single Power Conversion DC-AC Converter with Non Complementary Active-Clamp Circuits	EEE	2016
4	JPEEE1604	A New Family of Zero-Voltage-Transition Non-isolated Bidirectional Converters With Simple Auxiliary Circuit	EEE	2016
5	JPEEE1605	Bidirectional Resonant DC-DC Step-Up Converters for Driving High-Voltage Actuators in Mobile Microrobots	EEE	2016
6	JPEEE1606	Interleaved SEPIC Power Factor Pre-Regulator Using Coupled Inductors in Discontinuous Conduction Mode with Wide Output Voltage	EEE	2016
7	JPEEE1607	Single-Stage Bridgeless AC-DC PFC Converter Using a Lossless Passive Snubber and Valley-Switching	EEE	2016
8	JPEEE1608	Reduced Current Stress Bridgeless Cuk PFC Converter with New Voltage Multiplier Circuit	EEE	2016
9	JPEEE1609	Bridgeless SEPIC PFC Converter for Low Total Harmonic Distortion and High Power Factor	EEE	2016
10	JPEEE1610	Full-Range Soft-Switching-Isolated Buck-Boost Converters With Integrated Interleaved Boost Converter and Phase-Shifted Control	EEE	2016
11	JPEEE1611	A PWM Plus Phase-Shift Controlled Interleaved Isolated Boost Converter Based on Semi-	EEE	2016



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		active Quadrupler Rectifier for High Step-Up Applications		
12	JPEEE1612	A Bridgeless Totem-pole Interleaved PFC Converter for Plug-In Electric Vehicles	EEE	2016
LED Applications, Multi – Output Converter, Power Factor Correction, Resonant Converter				
13	JPEEE1613	Three phase converter with galvanic isolation based on loss-free resistors for HB-LED lighting applications	EEE	2016
14	JPEEE1614	A CLCL Resonant DC/DC Converter for Two-Stage LED Driver System	EEE	2016
15	JPEEE1615	A Novel LED Drive System Based on Matrix Rectifier	EEE	2016
16	JPEEE1616	Single-Stage AC/DC Single-Inductor Multiple-Output LED Drivers	EEE	2016
17	JPEEE1617	Design and Implementation of a High Efficiency Multiple Output Charger based on the Time Division Multiple Control Technique	EEE	2016
18	JPEEE1618	A Power Quality Improved Bridgeless Converter Based Computer Power Supply	EEE	2016
19	JPEEE1619	Control of a Single-Stage Three-Phase Boost Power Factor Correction Rectifier	EEE	2016
20	JPEEE1620	A High-Voltage SiC-Based Boost PFC for LED Applications	EEE	2016
21	JPEEE1621	LCL Filter Design for Three-phase Two-level Power Factor Correction using Line Impedance Stabilization Network	EEE	2016
22	JPEEE1622	New AC–DC Power Factor Correction Architecture Suitable for High-Frequency Operation	EEE	2016
23	JPEEE1623	Interleaved Digital Power Factor Correction Based on the Sliding-Mode Approach	EEE	2016
24	JPEEE1624	Bumpless Control for Reduced THD in Power Factor Correction Circuits	EEE	2016
25	JPEEE1625	A bidirectional single-stage three-phase Rectifier with high-frequency Isolation and power factor Correction	EEE	2016
26	JPEEE1626	A Sensitivity-Improved PFM LLC Resonant Full-Bridge DC-DC Converter with LC Anti-Resonant Circuitry	EEE	2016



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27	JPEEE1627	A New Compact and High Efficiency Resonant Converter	EEE	2016
<b>Soft Switching Converter, Step – Down Converter</b>				
28	JPEEE1628	High-Efficiency LLC Resonant Converter With High Voltage Gain Using an Auxiliary LC Resonant Circuit	EEE	2016
29	JPEEE1629	A ZVS Pulsewidth Modulation Full-Bridge Converter With a Low-RMS-Current Resonant Auxiliary Circuit	EEE	2016
30	JPEEE1630	Wide ZVS Range Asymmetric Half-Bridge Converter With Clamp Switch and Diode for High Conversion Efficiency	EEE	2016
31	JPEEE1631	A Wide Load Range ZVS Push-Pull DC/DC Converter with Active-Clamped	EEE	2016
32	JPEEE1632	A ZV-ZCS Electrolytic Capacitor Less AC/DC Isolated LED Driver with Continuous Energy Regulation	EEE	2016
33	JPEEE1633	ZVS-ZCS High Voltage Gain Integrated Boost Converter For DC Microgrid	EEE	2016
34	JPEEE1634	Isolated Double Step-down DC-DC Converter with Improved ZVS Range and No Transformer Saturation Problem	EEE	2016
35	JPEEE1635	High-Efficiency Coupled-Inductor-Based Step-Down Converter	EEE	2016
36	JPEEE1636	Morphing Switched-Capacitor Step-Down DC–DC Converters with Variable Conversion Ratio	EEE	2016
37	JPEEE1637	A Novel Transformer-less Interleaved Four-Phase Step-Down DC Converter With Low Switch Voltage Stress and Automatic Uniform Current-Sharing Characteristics	EEE	2016
38	JPEEE1638	A Low-Volume Hybrid Step-Down Dc-Dc Converter Based on the Dual Use of Flying Capacitor	EEE	2016
39	JPEEE1639	A Family of Isolated Buck-Boost Converters Based on Semi-active Rectifiers for High Output Voltage Applications	EEE	2016



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**Step - Up Converter, Switched Capacitor Converter**

40	JPEEE1640	Flying-Capacitor-Based Hybrid LLC Converters With Input Voltage Auto-balance Ability for High Voltage Applications	EEE	2016
41	JPEEE1641	A DC-DC Converter With High Voltage Gain and Two Input Boost Stages	EEE	2016
42	JPEEE1642	High Gain DC-DC Converter Based on the Cockcroft-Walton Multiplier	EEE	2016
43	JPEEE1643	A Three-State Switching Boost Converter Mixed With Magnetic Coupling and Voltage Multiplier Techniques for High Gain Conversion	EEE	2016
44	JPEEE1644	Split-Phase Control: Achieving Complete Soft-Charging Operation of a Dickson Switched-Capacitor Converter	EEE	2016
45	JPEEE1645	Multi-input Step-Up Converters Based on the Switched-Diode-Capacitor Voltage Accumulator	EEE	2016
46	JPEEE1646	Hybrid Bridgeless DCM SEPIC Rectifier Integrated with a Modified Switched Capacitor Cell	EEE	2016
<b>Drives</b>				
47	JPEEE1647	BLDC Motor Driven Solar PV Array Fed Water Pumping System Employing Zeta Converter	EEE	2016
48	JPEEE1648	Commutation Torque Ripple Reduction Strategy of Z-Source Inverter Fed Brushless DC Motor	EEE	2016
49	JPEEE1649	Single-Phase Input Variable-Speed AC Motor System Based on an Electrolytic Capacitor-Less Single-Stage Boost Three-Phase Inverter	EEE	2016
50	JPEEE1650	Switching-Gain Adaptation Current Control for Brushless DC Motors	EEE	2016
51	JPEEE1651	Position Sensorless Control Without Phase Shifter for High-Speed BLDC Motors With Low Inductance and Nonideal Back EMF	EEE	2016
52	JPEEE1652	Single-Phase Grid Connected Motor Drive System with DC-link Shunt Compensator and Small DC-link Capacitor	EEE	2016



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53	JPEEE1653	A Performance Investigation of a Four-Switch Three-Phase Inverter-Fed IM Drives at Low Speeds Using Fuzzy Logic and PI Controllers	EEE	2016
54	JPEEE1654	A Systematic Power-Quality Assessment and Harmonic Filter Design Methodology for Variable-Frequency Drive Application in Marine Vessels	EEE	2016
<b>Inverter - Single phase, Three phase, Z-Source, Bi-directional, Resonant</b>				
55	JPEEE1655	Bidirectional Single Power-Conversion DC-AC Converter with Non-Complementary Active-Clamp Circuits	EEE	2016
56	JPEEE1656	High-Efficiency Bidirectional DAB Inverter Using a Novel Hybrid Modulation for Stand-Alone Power Generating System With Low Input Voltage	EEE	2016
57	JPEEE1657	A Coupled Inductor Based High Boost Inverter with Sub-Unity Turns-Ratio Range	EEE	2016
58	JPEEE1658	A High Power Density Single-Phase Inverter Using Stacked Switched Capacitor Energy Buffer	EEE	2016
59	JPEEE1659	A ZVS Grid-Connected Full-Bridge Inverter With a Novel ZVS SPWM Scheme	EEE	2016
60	JPEEE1660	Dual Buck Inverter with Series Connected Diodes and Single Inductor	EEE	2016
61	JPEEE1661	Three-Phase Split-Source Inverter (SSI): Analysis and Modulation	EEE	2016
62	JPEEE1662	A Pulse-width Modulation Technique for High-Voltage Gain Operation of Three-Phase Z-Source Inverters	EEE	2016
63	JPEEE1663	Switched-Coupled-Inductor Quasi-Z-Source Inverter	EEE	2016
64	JPEEE1664	Analysis and Design of Modified Half-Bridge Series-Resonant Inverter With DC-Link Neutral-Point-Clamped Cell	EEE	2016
65	JPEEE1665	Hybrid Modulation Scheme for a High-Frequency AC-Link Inverter	EEE	2016
<b>Multilevel Inverter</b>				
66	JPEEE1666	Design and Implementation of a Novel Multilevel DC-AC Inverter	EEE	2016



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67	JPEEE1667	A Novel Nine-Level Inverter Employing One Voltage Source and Reduced Components as High Frequency AC Power Source	EEE	2016
68	JPEEE1668	A Family of Five-Level Dual-Buck Full-Bridge Inverters for Grid-Tied Applications	EEE	2016
69	JPEEE1669	A New Cascaded Switched-Capacitor Multilevel Inverter Based on Improved Series-Parallel Conversion With Less Number of Components	EEE	2016
70	JPEEE1670	A Single DC Source Cascaded Seven-Level Inverter Integrating Switched Capacitor Techniques	EEE	2016
71	JPEEE1671	A Three Phase Hybrid Cascaded Modular Multilevel Inverter for Renewable Energy Environment	EEE	2016
72	JPEEE1672	An Enhanced Single Phase Step-Up Five-Level Inverter	EEE	2016
73	JPEEE1673	Novel Three Phase Multi-Level Inverter Topology with Symmetrical DC-Voltage Sources	EEE	2016
<b>Energy Storage</b>				
74	JPEEE1674	Series-Parallel Connection of Low-Voltage Sources for Integration of Galvanically Isolated Energy Storage Systems	EEE	2016
75	JPEEE1675	Development of DC/DC Converter for Battery Energy Storage Supporting Railway DC Feeder Systems	EEE	2016
76	JPEEE1676	High Efficiency Bi-Directional Converter for Flywheel Energy Storage Application	EEE	2016
<b>Multi – port System</b>				
77	JPEEE1677	Secondary-Side-Regulated Soft-Switching Full-Bridge Three-Port Converter Based on Bridgeless Boost Rectifier and Bidirectional Converter for Multiple Energy Interface	EEE	2016
78	JPEEE1678	A Triple Active Bridge DC-DC Converter Capable of Achieving Full-Range ZVS	EEE	2016
79	JPEEE1679	Analysis, Design, Modeling and Control of an Interleaved-Boost Full-Bridge Three Port Converter for Hybrid Renewable Energy Systems	EEE	2016



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80	JPEEE1680	An Interleaved Half-Bridge Three-Port Converter With Enhanced Power Transfer Capability Using Three-Leg Rectifier for Renewable Energy Applications	EEE	2016
<b>Hybrid Energy</b>				
81	JPEEE1681	Control and Implementation of a Standalone Solar Photo-Voltaic Hybrid System	EEE	2016
82	JPEEE1682	Design and Real-Time Controller Implementation for a Battery-Ultra-capacitor Hybrid Energy Storage System	EEE	2016
83	JPEEE1683	Grid-Connected PV-Wind-Battery based Multi-Input Transformer Coupled Bidirectional DC-DC Converter for household Applications	EEE	2016
84	JPEEE1684	Ultra-capacitor-Battery Hybrid Energy Storage System Based on the Asymmetric Bidirectional Z-Source Topology for EV	EEE	2016
<b>Solar Energy</b>				
85	JPEEE1685	An Optimal Method to Design a Trap-CL Filter for a PV AC-Module Based on Flyback Inverter	EEE	2016
86	JPEEE1686	Highly Efficient Asymmetrical PWM Full-Bridge Converter for Renewable Energy Sources	EEE	2016
87	JPEEE1687	A High-Efficiency Flyback Micro-inverter With a New Adaptive Snubber for Photovoltaic Applications	EEE	2016
88	JPEEE1688	A Single-Phase PV Quasi-Z-Source Inverter With Reduced Capacitance Using Modified Modulation and Double-Frequency Ripple Suppression Control	EEE	2016
89	JPEEE1689	High-Gain Single-Stage Boosting Inverter for Photovoltaic Applications	EEE	2016
90	JPEEE1690	Front-End Isolated Quasi-Z-Source DC-DC Converter Modules in Series for Photovoltaic High-Voltage DC Applications	EEE	2016
91	JPEEE1691	Bus Voltage Control With Zero Distortion and High Bandwidth for Single-Phase Solar Inverters	EEE	2016
92	JPEEE1692	Transformerless Photovoltaic Inverter Based on Interleaving High-Frequency Legs Having	EEE	2016



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Bidirectional Capability				
93	JPEEE1693	Highly Reliable Transformerless Photovoltaic Inverters With Leakage Current and Pulsating Power Elimination	EEE	2016
94	JPEEE1694	Design and Analysis of a High Efficiency DC–DC Converter With Soft Switching Capability for Renewable Energy Applications Requiring High Voltage Gain	EEE	2016
95	JPEEE1695	Efficient Single Phase Transformerless Inverter for Grid-Tied PVG System With Reactive Power Control	EEE	2016
96	JPEEE1696	Single Phase Cascaded H5 Inverter with Leakage Current Elimination for Transformerless Photovoltaic System	EEE	2016
Wind Energy				
97	JPEEE1697	A Medium Frequency Transformer-Based Wind Energy Conversion System Used for Current Source Converter Based Offshore Wind Farm	EEE	2016
98	JPEEE1698	An Offshore Wind Generation Scheme With a High-Voltage Hybrid Generator, HVDC Interconnections, and Transmission	EEE	2016
99	JPEEE1699	Sliding Mode Control of PMSG Wind Turbine Based on Enhanced Exponential Reaching Law	EEE	2016
100	JPEEE16100	Control and Operation of a DC Grid-Based Wind Power Generation System in a Microgrid	EEE	2016
POWER SYSTEM				
101	JPEEE16101	Reactive Power and AC Voltage Control of LCC HVDC System with Controllable Capacitors	EEE	2016
102	JPEEE16102	Connection of Converters to a Low and Medium Power DC Network Using an Inductor Circuit	EEE	2016
103	JPEEE16103	High-Performance Constant Power Generation in Grid-Connected PV Systems	EEE	2016
104	JPEEE16104	Control Strategy to Maximize the Power Capability of PV Three-Phase Inverters During Voltage Sags	EEE	2016



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105	JPEEE16105	Delay-Dependent Stability of Single-Loop Controlled Grid-Connected Inverters with <i>LCL</i> Filters	EEE	2016
106	JPEEE16106	Grid-Current-Feedback Active Damping for <i>LCL</i> Resonance in Grid Connected Voltage-Source Converters	EEE	2016
107	JPEEE16107	A Hybrid-STATCOM With Wide Compensation Range and Low DC-Link Voltage	EEE	2016
108	JPEEE16108	A Versatile Unified Power Quality Conditioner Applied to Three-Phase Four-Wire Distribution Systems Using a Dual Control Strategy	EEE	2016
109	JPEEE16109	An Isolated Topology for Reactive Power Compensation With a Modularized Dynamic-Current Building-Block	EEE	2016
110	JPEEE16110	Design of Dynamic Voltage Restorer and Active Power Filter for Wind Power Systems Subject to Unbalanced and Harmonic Distorted Grid	EEE	2016
111	JPEEE16111	Full-Bridge Reactive Power Compensator With Minimized-Equipped Capacitor and Its Application to Static Var Compensator	EEE	2016
112	JPEEE16112	Individual Phase Current Control Based on Optimal Zero-Sequence Current Separation for a Star-Connected Cascade STATCOM Under Unbalanced Conditions	EEE	2016
113	JPEEE16113	Investigation on Dynamic Voltage Restorers With Two DC Links and Series Converters for Three-Phase Four-Wire Systems	EEE	2016
114	JPEEE16114	MPC-SVM Method for Vienna Rectifier with PMSG used in Wind Turbine Systems	EEE	2016
115	JPEEE16115	Shunt Active Power Filter Based on Cascaded Transformers Coupled with Three-Phase Bridge Converters	EEE	2016
116	JPEEE16116	STATCOM Operation Scheme of the CDSM-MMC During a Pole-to-Pole DC Fault	EEE	2016

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### PROJECT SUPPORT TO REGISTERED STUDENTS:

- 1) IEEE Base paper.
- 2) Abstract Document.
- 3) Future Enhancement (based on Requirement).
- 4) Modified Title / Modified Abstract (based on Requirement).
- 5) Complete Source Code.
- 6) How to Run execution help file.
- 7) Software Packages
- 8) International Conference / International Journal Publication based on your project.

### **OUR OTHER SALIENT FEATURES:**

- Number 1 Project Master in Pondicherry/Puducherry & Chennai.
- Guided more than 20,000 students.
- Successfully conducted more than 20 International Conferences in all over South India from 2013 to 2016.
- For the academic year **2016- 2017**, we have Signed MoU with 15 Engineering Colleges in all over South India to Conduct International Conferences in academic year 2016 – 2017.



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- Published more than 2000 Research Articles of Our Ph.D./M.Phil/ME/M.Tech./BE/B.Tech. Students in Leading International Conferences and International Journals from 2013 to 2016.
- For the year **2015-2016** Recognized and Awarded from the following colleges:
  - “K.S.R. College of Engineering”
  - “Vetri Vinayaha College Of Engineering And Technology”
  - “SKR Engineering College”
  - “Sree Sastha Institute of Engineering and Technology”
  - “Jaya Engineering College”
- For the year **2014-2015** Recognized and Awarded from the following colleges:
  - “V.P.Muthaiah Pillai Meenakshi Ammal Engineering College for Women”
  - “Muthayammal Arts and Science College”
  - “Sri Raaja Raajan College of Engineering and Technology”
  - “Latha Mathavan Engineering College”
  - “SKR engineering college”
  - “Dr Pauls Engineering College”
  - “Jaya Engineering College”
  - “Jain College of Engineering”



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- Recognized and published article about JP INFOTECH and our director in “THE HINDU”, “DINAKARAN” and many more newspapers and Media.
- Leaders with more than 8+ years of experience
- We assist and guarantee you to publish a paper on your project in INTERNATIONAL JOURNAL PUBLICATIONS / INTERNATIONAL CONFERENCE PUBLICATIONS.
- We provide REVIEW DOCUMENTS AND PPTS for each review
- NO FALSE PROMISES
- 100% Assurance for Project Execution
- 100% LIVE EXPLANATION
- VIVA-VOCE QUESTIONS & ANSWERS
- VALID TRAINEE CERTIFICATION (ISO Certification)
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