

Dr. Saly George**Journals**

No	Authors	Title	Details	National / International	Year
1	R. Akhil Raj, Deepthi S. Nair, Sreelakshmi MP and Saly George	A Novel High Voltage Gain Circuit Topology for Commutation Torque Ripple Reduction	IEEE Transactions on Industry Applications, vol. 58, no. 5, pp. 6227-6236, Sept.-Oct. 2022, doi: 10.1109/TIA.2022.3186289	International	2022
2	P Hema Rani, Arun Kumar Behera, Syam S Sundar, Saly George, Ashok S	One cycle controlled three input three output DC to DC converter	J. Power Electron. 22, 94–104 (2022). https://doi.org/10.1007/s43236-021-00335-4	International	2022
3	Anjali Anand, G Jagadanand, Akhil Vinayak B & Saly George	Open Switch Fault Diagnosis in Cascaded H-Bridge Multilevel Inverters	International Journal of Electronics, DOI: 10.1080/00207217.2021.2001869	International	2021
4	Deepthi S. Nair, Jagadanand G, & Saly George	Torque Estimation using Kalman Filter and Extended Kalman Filter Algorithms for a sensorless Direct Torque Controlled BLDC Motor drive: A Comparative Study	J. Electr. Eng. Technol. 16, 2621–2634 (2021). https://doi.org/10.1007/s42835-021-00793-7	International	2021
5	Deepthi S. Nair ; G. Jagadanand ; Saly George	Modified switching scheme-based explicit torque control of brush-less direct current motor drive	IET Electric Power Applications	International	2019
6	P Hema Rani, S Navasree, Saly George, S Ashok	Fuzzy logic supervisory controller for multi-input non-isolated DC to DC converter connected to DC grid	Elsevier, International Journal of Electrical Power & Energy Systems	International	2019
7	Anjali Anand ; Akhil Vinayak B ; Nithin Raj ; Jagadanand G ; Saly George	A Generalized Switch Fault Diagnosis for Cascaded H-Bridge Multilevel Inverters using Mean Voltage Prediction	IEEE Transactions on Industry Applications	International	2019
8	Nithin Raj, Jagadanand G., Saly George	Fault detection and Diagnosis in Asymmetric Multi Level Inverter using Artificial Neural Network.	Taylor and Francis - International Journal of Electronics.	International	2018
9	Nithin Raj, Tushar Kale, Anjali Anand, Saly George	Switch fault detection and diagnosis in space vector modulated cascaded H-bridge multilevel inverter	Taylor and Francis -International Journal of Electronics.	International	2018

Conferences

No	Authors	Title	Details	National / International	Year
1	Saly George	Fault Tolerant Technique for 3n-Phase Induction Motor Drives under Open-Winding Fault Condition	2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) https://doi.org/10.1109/ETFG55873.2023.10408390	International	2023
2	Shivani Gupta, Saly George, Viraj Awate	PI Controller Design and Application for SVPWM Switching Technique Based FOC of PMSM	2023 Second International Conference on Trends in Electrical, Electronics, and Computer Engineering (TEECCON) https://doi.org/10.1109/TEECCON50224.2023.102257	International	2023
3	R Akhil Raj; Shreelekshmi MP; Saly George	A Constant Frequency based Torque Ripple Free Three Level Npc Brushless Motor Drive	2023 IEEE Texas Power and Energy Conference (TPEC) https://doi.org/10.1109/TPEC56611.2023.10078712	International	2023
4	Nithin Raj, Anjali Anand, G Jagadanand, Saly George	Experimental validation of a fault diagnostic method in SPWM and SVPWM CHB-MLIs	2021 IEEE 5th International Conference on Condition Assessment Techniques in Electrical Systems (CATCON) doi: 10.1109/CATCON52335.2021.9670525.	International	2022
5	R Akhil Raj; Deepthi S Nair; Shreelekshmi M P; Saly George	A Switched Capacitor Based BLDC Drive	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES 2020)	International	2020
6	R Akhil Raj; M P Shreelekshmi; Saly George	Multiband Hysteresis Current Controller for Three Level BLDC Motor Drive	International Conference on Power, Instrumentation, Control and Computing (PICC 2020)	International	2020
7	Anjali Anand ; Vinayak B Akhil ; Nithin Raj ; G Jagadanand ; Saly George	An Open Switch Fault Detection Strategy using Mean Voltage Prediction for Cascaded H-Bridge Multilevel Inverters	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2018
8	J. Sandeep ; Deepthi S. Nair ; Saly George ; S. Ashok ; G. Jagadanand ; Rijil Ramchand	Performance Comparison of Direct Torque Controlled Permanent Magnet Machines	IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics SocietyDC, USA	International	2018

Dr. Rijil Ramchand

Journals

No	Authors	Title	Details	National/ International	Year
1	K. P. Mohammed Shafi, Joseph Peter, Rijil Ramchand	Hybrid PWM-based nearly constant switching frequency hysteresis controller for VSI-fed IM drives with reduced peak-to-peak torque ripple	Journal of Power Electronics https://doi.org/10.1007/s43236-023-00665-5	International	2023
2	Sanila, P., Pradeep, A., Jacob, J. and Ramchand, R.,	Leader–follower target interception control of multi-robotic vehicles with holonomic dynamics based on unscented Kalman filter	Nonlinear Dynamics, pp.1-20, 2023 https://doi.org/10.1007/s11071-023-08436-4	International	2023
3	Joseph Peter, Rijil Ramchand	Novel Hysteresis Regulation Strategy for a Two-level Inverter Fed Induction Motor Drive to Achieve Nearly Constant Switching Frequency	IETE Journal of Research, 68(6), pp.4167-4179. https://doi.org/10.1080/03772063.2020.1787880	International	2022
4	Joseph Peter, Rijil Ramchand	Investigations on Variable and Constant Switching Frequency Hysteresis Controller for VSI fed IM drive	International Journal of Power Electronics, DOI: 10.1504/IJPELEC.2022.124268	International	2022
5	Sandeep J, Ashok S, Rijil Ramchand	Analysis of Current Error Space Phasor for a Space Vector Modulated Indirect Matrix Converter	IEEE Trans. on Ind. Electron., DOI: 10.1109/TIE.2021.3078348	International	2022
6	Jino M Patteri, Sandeep J, Elizabeth P Cheriyan, Rijil Ramchand	A Composite Strategy for Improved Power Quality Using Micro Compensators in Secondary Distribution Systems	IEEE Trans. on Power Del., DOI: 10.1109/TPWRD.2021.3075602	International	2022
7	Joseph Peter, Rijil Ramchand	Space Vector PWM based Current Error Boundary Investigations for Three Level VSI fed Induction Motor Drive	Int. Trans. Electr. Energ. Syst., DOI: 10.1002/2050-7038.13228	International	2021
8	Athira Raju, Elizabeth P Cheriyan, Rijil Ramchand	Modified hysteresis current controller for cascaded H-Bridge inverter–based STATCOM	Int. Trans. Electr. Energ. Syst., DOI: 10.1002/2050-7038.13144	International	2021
9	Athira Raju, Elizabeth P Cheriyan, Rijil Ramchand	Investigations on STATCOM using current error space phasor based modified hysteresis current controller	IET Generation, Transmission & Distribution, DOI: 10.1049/gtd2.12083	International	2021
10	Tarakanath Kobaku, R. Jeyasenthil, Subham Sahoo, Rijil Ramchand, Tomislav Dragicevic	Quantitative Feedback Design Based Robust PID Control of Voltage Mode Controlled DC-DC Boost Converter	IEEE Trans. on Circuits and Systems II: Express Briefs, DOI: 10.1109/TCSII.2020.2988319	International	2021
11	Tarakanath Kobaku, R. Jeyasenthil, Subham Sahoo, Rijil Ramchand, Tomislav Dragicevic	Quantitative Feedback Design Based Robust PID Control of Voltage Mode Controlled DC-DC Boost Converter	IEEE Transactions on Circuits and Systems II: Express Briefs, January 2021	International	2020

12	Sandeep J, Ashok S, Rijil Ramchand	Current Error Space Vector Based Hysteresis Controller for VSI Fed PMSM Drive	IEEE Transactions on Power Electronics, October 2020	International	2020
13	Joseph Peter, Srikar Krishnatheeram, Rijil Ramchand	Novel Hysteresis Regulation Strategy for a Two-level Inverter Fed Induction Motor Drive to Achieve Nearly Constant Switching Frequency	IETE Journal of Research, July 2020	International	2020
14	Joseph Peter, K P Mohammed Shafi, Lakshmi R and Rijil Ramchand	Online Boundary Computation Using Sampled Voltage Reference for Bus Clamping PWM Based Hysteresis Controlled VSI fed IM Drive	IEEE Transactions on Power Electronics, April 2020	International	2020
15	Biju K, Rijil Ramchand	An adaptive control strategy for single-phase cascaded H-bridge multilevel inverter under distorted load conditions	Electrical Engineering, Springer, February 2020	International	2020
16	P. S. Ambika, P. K. Rajendra Kumar, Rijil Ramchand	Vibration signal based condition monitoring of mechanical equipment with scattering transform	Journal of Mechanical Science and Technology, July 2019	International	2019
17	P. S. Ambika, P. K. Rajendra Kumar, Rijil Ramchand	Mode determination in Variational Mode Decomposition and its application in Fault Diagnosis of Rolling Element Bearings	SN Applied Sciences, September 2019	International	2019
18	Biju K, Rijil Ramchand	A new space vector pulse width modulation technique for single phase seven level inverter with reduced number of switches	IETE Journal of Research, September 2019	International	2019
19	Joseph Peter, K P Mohammed Shafi, Lakshmi R and Rijil Ramchand	Nearly Constant Switching Space Vector based Hysteresis Controller for VSI fed IM Drive	IEEE Transactions on Industrial Electronics, July-August 2018	International	2018
20	Pratheesh K J, Jagadanand G, Rijil Ramchand	A Generalized Switch Matrix Based Space Vector Modulation Technique using Nearest Level Modulation Concept for Neutral Point Clamped Multilevel Inverters	IEEE Transactions on Industrial Electronics, June 2018	International	2018
21	Biju K, Rijil Ramchand	Control strategy for single phase cascaded nine level inverter with sinusoidal pulse width modulation using LPC 1769 ARM Cortex-M3 microcontroller	International Journal of Power Electronics	International	2018
22	Pratheesh K J, Jagadanand G, Rijil Ramchand	A Generalized Space Vector Modulation Scheme Based On A Switch Matrix For Cascaded H-Bridge Multilevel Inverters	Journal of Power Electronics, March 2018	International	2018

Conferences

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1	Nikhil Sasidharan, Rijil Ramchand	A Novel Switched Capacitor Based Single Stage Inverter for Solar Power Extraction	2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10404722	International	2023
2	Sheetal Cyriac, Rijil Ramchand	An Asymmetric Modulated Predictive Control for Enhanced Transient Response in Extended Phase Shift Dual Active Bridge Converter	IECON 2023-49th Annual Conference of the IEEE Industrial Electronics Society https://doi.org/10.1109/IECON51785.2023.10312016	International	2023
3	P Sanila, Jeevamma Jacob, Rijil Ramchand	On the Design of Unscented Kalman Filter-Based Multi-Agent Target Interception Control	2023 IEEE Region 10 Symposium (TENSYP) https://doi.org/10.1109/TENSYP55890.2023.10223622	International	2023
4	A Shahin, Deepthi S Nair, MP Shreelakshmi, Rijil Ramchand	Design and Analysis of Maximum Power Factor Control for a Three Phase Synchronous Reluctance Motor	2023 5th Global Power, Energy and Communication Conference (GPECOM) https://doi.org/10.1109/GPECOM58364.2023.10175803	International	2023
5	Bhawna Gupta, Kuppat Harisankar, Rijil Ramchand	Design and Simulation of Current Mode Controlled Synchronous Buck Converter under Light Load Condition	2023 IEEE Renewable Energy and Sustainable E-Mobility Conference (RESEM) https://doi.org/10.1109/RESEM57584.2023.10236415	International	2023
6	Aaliya Farzana, Rijil Ramchand, Harish Sudhakaran Nair	A Survey of Bi-directional DC-DC Converters for Transportation Electrification and Microgrid Applications	2023 International Conference on Power, Instrumentation, Control and Computing (PICC) https://doi.org/10.1109/PICC57976.2023.10142639	International	2023
7	Sheetal Cyriac, Rijil Ramchand	Mitigation of DC Bias in Dual Active Bridge DC-DC Converter using Current Averaged Moving Discretized Control Set Model Predictive Control	2022 ICIT Conference, 22-25 August 2022, Shanghai, China https://doi.org/10.1109/ICIT48603.2022.10002742	International	2022
8	M Shilpi, Shreelakshmi M P, Rijil Ramchand	Modelling and Comparative Analysis of Torque Profile of Six Phase and Three Phase Synchronous Reluctance Motor for Electric Vehicle Applications	2022 International Conference on Futuristic Technologies in Control Systems & Renewable Energy (ICFCR), 21-22 July 2022, MESCE Kuttippuram, Kerala, India https://doi.org/10.1109/ICFCR54831.2022.9893543	International	2022
9	Anjali Pradeep, Sanila P, Jeevamma Jacob, Rijil Ramchand.	PSO Based Formation Maneuvering with Orientation Control of Multi Robotic Vehicles	I2CT 2021, 2-4 April 2021, Maharashtra, India DOI: 10.1109/I2CT51068.2021.9418089 https://doi.org/10.1109/I2CT51068.2021.9418089	International	2021
10	Sheetal Cyriac, Tarakanath Kobaku, Rijil Ramchand	Comparative Analysis of Continuous Time Small Signal Models of Single Phase Shift Modulated Dual Active Bridge Converter	2020 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) 16-19 December 2020, Jaipur, India	International	2020
11	Sheetal Cyriac, Haritha B., Tarakanath Kobaku, Rijil Ramchand	Virtual Impedance-based Stabilization of Dual Active Bridge Converter Cascaded with LC Filter	2020 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) 16-19 December 2020, Jaipur, India	International	2020
12	Joseph Peter, Rijil Ramchand	Vector Control of Space Vector based Hybrid PWM fed IM Drive with reduced torque ripple	2020 International Conference on Power, Instrumentation, Control and Computing (PICC), 10-12 December 2020, Thrissur, India	International	2020
13	Athira Poovathody, Rijil Ramchand	Twelve Sector Based Direct Power Control of Induction Motor Drives	2020 International Conference on Power Electronics and Renewable Energy Applications (PEREA), 27-28 November 2020, Kannur, Kerala	International	2020

14	P Sanila, Jeevamma Jacob, Rijil Ramchand	On the design of Kalman Filter-Based Disturbance Observer For Stabilization of Rigid Formations	IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society, 18-21 October 2020, Singapore	International	2020
15	Meria Mathew, Jeevamma Jacob, Rijil Ramchand	Formation Acquisition of Multi Robotic Vehicles with Unscented Kalman Filter Based Noise Filtering	2020 International Conference for Emerging Technology (INCET), 5-7 June 2020, Belgaum, India	International	2020
16	AN Sruthy, Jeevamma Jacob, Rijil Ramchand	Fault Tolerant Controller for Formation Flight of Leader-Follower Quadrotors	2020 International Conference for Emerging Technology (INCET), 5-7 June 2020, Belgaum, India	International	2020
17	AN Sruthy, Jeevamma Jacob, Rijil Ramchand	PSO Based Integral Back stepping Control for Leader-Follower Quadrotors	2020 Fourth International Conference on Inventive Systems and Control (ICISC), 8-10 January 2020, Coimbatore, India	International	2020
18	Meria Mathew, Jeevamma Jacob, Rijil Ramchand	Robust Dynamic Formation Acquisition Control for Multi Robotic Vehicles	2020 Fourth International Conference on Inventive Systems and Control (ICISC), 8-10 January 2020, Coimbatore, India	International	2020
19	Aman Harikumar, Rijil Ramchand	Analysis on the Extend of Application of Artificial Neural Networks in Direct Torque Control-Space Vector Modulated Drives	2020 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE2020), 2-4 January 2020, Kochi, India	International	2020
20	Athira Raju, Elizabeth P Cheriyan, Rijil Ramchand	Nearly Constant Switching Frequency Hysteresis Current Controller for Multilevel Inverter based STATCOM	TENCON 2019-2019 IEEE Region 10 Conference (TENCON), 17-20 October 2019	International	2019
21	Sajitha M, Sandeep J, Rijil Ramchand	Comparative Analysis of Different Modulation Techniques for Three Level Three Phase T-type NPC Inverter	TENCON 2019-2019 IEEE Region 10 Conference (TENCON), 17-20 October 2019, Kochi, India	International	2019
22	K P Roshan, Kuruva Veeranna, Shinto Antony, S Kumaravel, Rijil Ramchand	A Low Cost Development Tool for Educating Electric Machines	IECON 2019-45th Annual Conference of the IEEE Industrial Electronics Society, 14-17 October 2019, Lisbon, Portugal	International	2019
23	Biju K, Rijil Ramchand	A Modified Lyapunov Function Based Control Strategy for Single Phase Cascaded H-bridge Multilevel Inverter with Nonlinear Loads	2019 IEEE Industry Applications Society Annual Meeting, 29 September – 3 October 2019, Baltimore, USA	International	2019
24	Neeraja Vijayan, J Sandeep, Rijil Ramchand	An Arduino based Speed and Rotor Position Measurement Technique for Electric Drives	2019 International Conference on Power Electronics Applications and Technology in Present Energy Scenario (PETPES), 29-31 August 2019, NITK Surathkal, Mangalore, India	International	2019
25	V. Vinay Kumar Reddy, A Augustin Gandhiraj, Rijil Ramchand	MTPA/MTPF Control of Interior Permanent Magnet Synchronous Machine by Estimating Inductances	2019 International Conference on Power Electronics Applications and Technology in Present Energy Scenario (PETPES), 29-31 August 2019, NITK Surathkal, Mangalore, India	International	2019
26	Chitta Ranjan Hotta, Rijil Ramchand	Performance Comparison of Hysteresis and Fuzzy based Hysteresis Current Controlled VSI Fed IM Drives	2019 5th International Conference On Computing, Communication, Control And Automation (ICCUBE), 16-18 August 2019, Pune, India	International	2019

27	Sajitha M, Rijil Ramchand	Space Vector PWM Scheme for Three Phase Three Level T-type NPC Inverter	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), 5-6 July 2019, Kannur, Kerala	International	2019
28	Deepa Jose, Jeevamma Jacob, P Sanila, Rijil Ramchand	Disturbance Observer Based Formation Control Of Multi Agent System	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT), 5-6 July 2019, Kannur, Kerala, India	International	2019
29	P. S. Ambika, P. K. Rajendra Kumar, Rijil Ramchand	An Approach to Rolling Bearing Fault Diagnosis using Fractal Descriptors and Regularized Least Squares	2019 Second International Conference on Advanced Computational and Communication Paradigms (ICACCP), 25-28 February 2019, Gangtok, India	International	2019
30	Pratheesh K J, Jagadanand G, Biju K, Rijil Ramchand	Generalized Charge Balancing Scheme for Symmetrical CHB Multilevel Inverters	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 18-21 December 2018, Madras, India	International	2018
31	Biju K, Rijil Ramchand	A new control strategy for single phase cascaded H bridge multilevel inverter in stationary reference frame with nonlinear loads	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), 18-21 December 2018, Madras, India	International	2018
32	Sreekar Krishnatheeram, Joseph Peter, Rijil Ramchand	Comparative Analysis of Hysteresis Current Control Strategies to Achieve Nearly Constant Switching Frequency for a Two- Level Inverter Fed IM Drive	IECON 2018-44th Annual Conference of the IEEE Industrial Electronics Society, 21-23 October 2018, Washington DC, USA	International	2018
33	J. Sandeep, D. S. Nair, S. George, S. Ashok, G. Jagadanand and Rijil Ramchand.	Performance Comparison of Direct Torque Controlled Permanent Magnet Machines	IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society, Washington DC, October, 2018	International	2018
34	Sreekar Krishnatheeram, Joseph Peter, K P Mohammed Shafi, Rijil Ramchand	Current error boundary analysis of constant switching frequency voltage controlled three level VSI Fed IM drive	2018 International Conference on Power, Instrumentation, Control and Computing (PICC), 18-20 January 2018, Thrissur	International	2018

Dr. Jagadanand G

Journal

No	Authors	Title	Details	National/ International	Year
1	V Rinsha, Vivek Kumar Sharma, Nithin Raj, G Jagadanand	Machine Learning Based Open Switch Fault Detection and Localization of Inverters	Journal of Circuits, Systems and Computers https://doi.org/10.1142/S0218126624502001	International	2024
2	Rinsha V., Jagadanand G	Rolling Average-Decision Tree Based Fault Detection of Neutral Point Clamped Inverters	IEEE Journal of Emerging and Selected Topics in Industrial Electronics https://doi.org/10.1109/JESTIE.2023.3236587	International	2023
3	Reema N, Jagadanand G, Nikhil Sasidharan, Shreelakshmi M P	An Enhanced Coupled Inductor Based Voltage Equalizer for Matrix Connected Ultracapacitor Bank	IEEE Transactions on Transportation Electrification https://doi.org/10.1109/TTE.2022.3221939	International	2022
4	Reema Narayanan, Jagadanand G, Nikhil Sasidharan, Shreelakshmi M P	A Novel Modularization Method for Voltage Equalization of Ultracapacitor Bank using Coupled Inductor	IEEE Transactions on Industrial Electronics, Vol. 58, No. 5, PP. 6227-6236, Sept.-Oct. 2022 https://doi.org/10.1109/TIE.2023.3277093	International	2022
5	Anjali Anand, G Jagadanand, Akhil Vinayak B & Saly George	Open Switch Fault Diagnosis in Cascaded H-Bridge Multilevel Inverters	International Journal of Electronics, 109(12), 2069–2086 https://doi.org/10.1080/00207217.2021.2001869	International	2021
6	Nair, D.S., Jagadanand, G. & George, S.	Torque Estimation using Kalman Filter and Extended Kalman Filter Algorithms for a sensorless Direct Torque Controlled BLDC Motor drive: A Comparative Study	Journal of Electrical Engineering & Technology, 16, 2621-2634. https://doi.org/10.1007/s42835-021-00793-7	International	2021
7	Deepthi S. Nair, Jagadanand G, Saly George,	Modified Switching Scheme based Explicit Torque Control of BLDC Motor Drive	IET Electric Power Applications, Volume 13, Issue 7, p. 1051 –1060, May 2019	International	2019
8	Akhil Vinayak B, Anjali Anand K; Jagadanand G	“Wavelet Based Realtime Stator Fault detection of Inverter-fed Induction motor	IET Electric Power Applications, 10. 1049/ IET-EPA.	International	2019
9	A. Anand, A. Vinayak B, N. Raj, Jagadanand. G and S. George,	A Generalized Switch Fault Diagnosis for Cascaded H-Bridge Multilevel Inverters using Mean Voltage Prediction	IEEE Transactions on Industry Applications, vol. 56, no. 2, pp. 1563-1574 https://doi.org/10.1109/TIA.2019.2959540	International	2019
10	Pratheesh K J, Jagadanand G, Rijil Ramchand	A Generalized Space Vector Modulation Scheme Based On A Switch Matrix For Cascaded H-Bridge Multilevel Inverters	The Korean Institute of Power Electronics Journal Of Power Electronics Vol.18 No.2, 2018.03, 522 – 532.	International	2018

Conference

No	Authors	Title	Details	National/ International	Year
1	Shantanu Kumar Singh, G Jagadeesh	Efficient Real Time Stator Inter-Turn Short Circuit Fault Detection of Inverter-Fed Induction Motors: A Hybrid Approach Utilizing Wavelet Transform and Digital Signal Processing	2023 Annual International Conference on Emerging Research Areas: International Conference on Intelligent Systems (AICERA/ICIS) https://doi.org/10.1109/AICERA/ICIS59538.2023.10420397	International	2023
2	Priyanka C P, Nithin S Nair, Jagadanand G	A Combined Electromagnetic with Stress Loss Calculation Method for Pole Phase Modulated Multiphase Induction Motor	2022 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) https://doi.org/10.1109/JSEN.2021.3061797	International	2022
3	Priyanka C P, Nithin S Nair, Jagadanand G	Fault-Tolerant Control of Nine-Phase Induction Motor With Sensorless Speed and Flux Estimation	2022 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES) https://doi.org/10.1109/PEDES56012.2022.10080087	International	2022
4	Priyanka C P, Nithin S Nair, Jagadanand G	Thermal Analysis of Multiphase Induction Motor for Electric Vehicle Applications	2022 IEEE Transportation Electrification Conference & Expo (ITEC), USA https://doi.org/10.1109/ITEC53557.2022.9813800	International	2022
5	Lyla B. Das, Raghu C V, Jagadanand G, Ritu Ann Roy George, Priyamvada Yashasawi, N A Aakaash Kumaran, Vinay Kumar Patnaik	FACToGRADE: Automated Essay Scoring System	2022 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT) https://doi.org/10.1109/IAICT55358.2022.9887447	International	2022
6	Lyla B Das , Jayakumar E. P, Jagadanand G, O. Meghana, P. Satheesh, R. Sriharsha, V. Lakshmi Prasanna, Vundavalli Aswini.	Design of a Personal Digital Assistant for the Visually Challenged	2022 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT) https://doi.org/10.1109/IAICT55358.2022.9887423	International	2022
7	Amruthavarshini P, Raghu C V, Jagadanand G	DEVELOPMENT OF AN IoT ENABLED SMART PROJECTION SYSTEM FOR CLASSROOM NEEDS	2022 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT) 2022 https://doi.org/10.1109/IAICT55358.2022.9887528	International	2022

8	Abraham Mathews, Jagadanand G	Open-Circuit Switch Fault-Tolerant Half-Bridge LLC Resonant Converters for Satellite Applications	2022 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems (SPICES) https://doi.org/10.1109/SPICES52834.2022.9774260	International	2022
9	Indra Prakash, Damir Klikic, Navya Prabhakaran, Jagadanand G, Venkatesh Pulakhandam	Decoupled Layout Approach for Paralleling GaN Devices in Half Bridge Inverters	2021 2nd Global Conference for Advancement in Technology (GCAT) https://doi.org/10.1109/GCAT52182.2021.9587818	International	2021
10	N. Reema, G. Jagadanand, M. P. Shreelakshmi, and N. Sasidharan	Comparative Analysis of CC-CV/CC Charging and Charge Redistribution in Supercapacitors	2021 31st Australasian Universities Power Engineering Conference (AUPEC) https://doi.org/10.1109/AUPEC52110.2021.9597829	International	2021
11	Kannan S A ; Jagadanand G; Nikhil Sasidharan	A SOLO SOURCE BASED 27-LEVEL ASYMMETRICAL CASCADED H-BRIDGE CONVERER FED OPEN ENDED PMSM DRIVE	2021 7th International Conference on Electrical Energy Systems (ICEES) https://doi.org/10.1109/ICEES51510.2021.9383740	International	2021
12	Vivek Kumar Sharma, Rinsha V and Jagadanand G	Artificial Neural Network Based Open-Transistor Fault Detection in symmetric Cascaded H-Bridge Multilevel Inverter	2021 2nd International Conference for Emerging Technology (INCET) https://doi.org/10.1109/INCET51464.2021.9456182	International	2021
13	Priyanka C P, Jagadanand G. Mahesh Krishnamurthy	IPOC-Controlled Pole Phase Modulate Multiphase Induction motor for Electric Vehicle Applications.	2021 IEEE Transportation Electrification Conference & Expo (ITEC) https://doi.org/10.1109/ITEC51675.2021.9490125	International	2021
14	Akhil Vinayak, B MD Faiyaz Alam, Jagadanand G, Anjali Anand K	Stator interturn fault diagnosis by High-frequency Modeling of Inverter fed induction motor	The IEEE International conference on "Power Electronics, smart Grid and renewable Energy (PESGRE 2020), Held on 2-4 January 2020 at Le Meridien Kochi, Kerala, India	International	2020
15	A. Anand, V. B. Akhil, N. Raj, G. Jagadanand and S. George	An Open Switch Fault Detection Strategy using Mean Voltage Prediction for Cascaded H-Bridge Multilevel Inverters,	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Chennai, India, 2018, pp. 1-5	International	2018
16	Lyla B Das1, Jagadanand G, Jayakumar E.P et.al	Multipurpose Unmanned Rover in WiFi Wireless Sensor Network	2018 IEEE 3rd International Conference on Computing, Communication and Security (ICCCS), Kathmandu, 2018, pp. 20-24	International	2018
17	P. KJ, G. Jagadanand, R. Ramchand and K. Biju	Generalized Charge Balancing Scheme for Symmetrical CHB Multilevel Inverters	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Chennai, India, 2018, pp. 1-5	International	2018
18	J. Sandeep, D. S. Nair, S. George, S. Ashok, G. Jagadanand and R. Ramchand.	Performance Comparison of Direct Torque Controlled Permanent Magnet Machines	IECON 2018 - 44th Annual Conference of the IEEE Industrial Electronics Society, Washington DC, October, 2018	International	2018

19	R. Chawla, B. Akhil Vinayak and G. Jagadanand	Modelling and Detection of Stator Incipient Open Circuit Fault in Three-Phase Induction Motor	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), Chennai, India, 2018, pp. 1-6	International	2018
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Dr. Mukti Barai

Journal

No	Authors	Title	Details	National/ International	Year
1	Aswini Kumar Muthavarapu, Jayanta Biswas, and Mukti Barai,	An Efficient Sorting Algorithm for Capacitor Voltage Balance of Modular Multilevel Converter with Space Vector Pulse Width Modulation",	IEEE T Transactions on Power Electronics, 37(8), pp.9254-9265. https://doi.org/10.1109/TPEL.2022.3160665	International	2022
2	Aswini Kumar Muthavarapu, Anjana K. G., Jayanta Biswas, and Mukti Barai	"A Reconfigurable Integrated Level Shifted Carrier Based PWM Method for Modular Multilevel Converters",	IEEE Transactions on Electrical and Electronic Engineering, April 2022 https://doi.org/10.1002/tee.23606	International	2022
3	M. A. Kumar, A. K. Gopi, J. Biswas and M. Barai	A Voltage Balancing Scheme for Modular Multilevel Converter Based on Charge Variation in Each Cycle	IEEE Journal of Emerging and Selected Topics in Industrial Electronics, vol. 2, no. 2, pp. 173-183, doi: 10.1109/JESTIE.2021.3051595.	International	2021
4	G Vivek, Jayanta Biswas, Meenu D Nair, and Mukti Barai	Advanced Hybrid SVPWM Techniques for Two Level VSI"	International Journal of Electronics, February, 2021 https://doi.org/10.1080/00207217.2020.1870728	International	Feb-21
5	A. K. Gopi, M. A. Kumar, J. Biswas and M. Barai	An Optimized Hybrid PWM Strategy for Five level NPC VSI With Unequal DC-Links in a PV System,"	IEEE Journal of Emerging and Selected Topics in Industrial Electronics, , doi: 10.1109/JESTIE.2021.3066910	International	Mar-21
6	G Vivek, Meenu D Nair, Jayanta Biswas and Mukti Barai	Design space exploration of optimized hybrid SVPWM techniques based on spatial region for three level VSI	Electrical Engineering, Springer Nature, March 2021. https://doi.org/10.1007/s00202-021-01245-1	International	Mar-21
7	M. A. Kumar, A. K. Gopi, J. Biswas and M. Barai	A Hybrid Level Shifted Carrier-Based PWM Technique for Modular Multilevel Converters	in IET Power Electronics, Article DOI: 10.1049/pel2.12173	International	Jul-21
8	Meenu D. Nair, Jayanta Biswas, G. Vivek, and Mukti Barai	Optimum Hybrid SVPWM Technique for Three-level Inverter on the Basis of Minimum RMS Flux Ripple	Journal of Power Electronics, Vol. 19, No. 2, pp. 413-430,	International	2019
9	G Vivek, Jayanta Biswas, Meenu D Nair, Mukti Barai	A Simplified Double Switching SVPWM implementation for Three Level VSI	IET, The Journal of Engineering, DOI: 10.1049/joe.2018.5106 , Online ISSN 2051-3305	International	2018
10	Vivek Gopinath, Meenu Nair, Jayanta Biswas, Mukti Barai	An optimized harmonic elimination method based on synchronized microcontroller architecture	Turkish Journal of Electrical Engineering & Computer Sciences. DOI: 10.3906/elk-1806-153.	International	2019
11	Partha sarathi Behera, G. Vivek, Dr. Mukti Barai	Study of Common Mode Voltage (CMV) in Three level NPC VSI using SVPWM Techniques	International Journal of Scientific & Engineering Research, Volume 10, Issue 3, March 2019 ISSN 2229-5518	International	2019

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No	Authors	Title	Details	National/ International	Year
1	Pankaj Pandey, Mukti Barai,	“A Comprehensive Performance Study of Three-Level NPC VSI with Induction Motor Load in Closed-loop”,	IEEE 2nd ASIANCON 2022, PUNE, INDIA, 26-28th August 2022. https://doi.org/10.1109/ASIANCON55314.2022.9908797	International	2022
2	Nitesh Soni, Mukti Barai,	“Performance Study of Regenerative Braking of BLDC Motor targeting Electric Vehicle Applications”,	IEEE 2nd ASIANCON 2022, PUNE, INDIA, 26-28th August, 2022. 1. https://doi.org/10.1109/ASIANCON55314.2022.9909322	International	2022
3	H. Savsani and M. Barai,	"Study on Commutation Torque Ripple Reduction Strategy for Brushless DC Motor Targeting Electric Vehicle Applications”	2022 IEEE 1st Industrial Electronics Society Annual On-Line Conference (ONCON), kharagpur, India, 2022, https://doi.org/10.1109/ONCON56984.2022.10126538	International	2022
4	Nithin S. Nair and Mukti Barai	Performance Evaluation of Carrier based Modulation Strategies for Five Level Modular Multilevel Converter (MMC)	International Conference on Automation, Signal Processing, Instrumentation and Control, iCASIC 2020 held in VIT, Vellore	International	2020
5	Abhishek Roy and Mukti Barai	Study and Design of Soft-Switched PWM DC-DC Buck Converter	IEEE Power Electronics Applications & Technology in Present Energy Scenario (PETPES 2019) held in NITK, Surathkal	International	2019
6	Arundhati Parida, Kumar Raja Mothukuri, Mukti Barai	Study of a soft switched Isolated DC-DC Bidirectional Converter for Electric Vehicles	IEEE TENCON 2019, held in Kochi, Kerala	International	2019
7	Partha Sarathi Behera, G Vivek, Dr. Mukti Barai	Common Mode Voltage (CMV) in Three level NPC VSI using Advanced Bus clamping methods: A Study	IEEE International conference on International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering -(ICRIEECE-2018) held at School of Electrical Engineering, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar	International	2018
8	Betsy Maria Mathews, Mukti Barai	Modelling, Design and Implementation of a Two-port DC-DC Converter with Synchronized PWM Control	International Journal of Scientific & Engineering Research. ISSN 2229-5518, Volume 9, Issue 6, June-2018 pp: 1498-1510.	International	2018
9	Remya M. N., Mukti Barai	Study of Induction Heating using Half Bridge Series Resonant Inverter	International Journal of Scientific & Engineering Research. ISSN 2229-5518, Volume 9, Issue 6, June-2018 pp: 1520-1525.	International	2018
10	Meenu D Nair, Jayanta Biswas, G Vivek, Mukti Barai	An Optimum Hybrid SVPWM Technique for Three level Inverter	IEEE 3rd International Conference for Convergence in Technology (I2CT), Pune	International	2018

Dr. Hema Rani

Journal					
No	Authors	Title	Details	National/ International	Year
1	P. Hema Rani, S. Navasree, Saly George, S. Ashok	Fuzzy logic supervisory controller for multi-input non-isolated DC to DC converter connected to DC grid	International Journal for Electric Power and Energy Systems, vol. 112, pp.49 - 60 https://doi.org/10.1016/j.ijepes.2019.04.018	International	2019

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No	Authors	Title	Details	National/ International	Year
1	Mohamed Nadir N, M Waheeda Beevi, A Lekshmi, Hema Rani P S Ashok	Power Circuit for Solar Boat with a Bidirectional Converter	2023 7th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS) https://doi.org/10.1109/CSITSS60515.2023.10334116	International	2023
1	K Jishnu Prakash P Hemarani	Single-Phase Transformerless PV Inverter with Reactive Power Compensation	2022 IEEE International Power and Renewable Energy Conference (IPRECON), 1-6, December 2022 https://doi.org/10.1109/IPRECON55716.2022.10059579	International	2022
2	Kandala Saichaitanya;Hema Rani P.;Saly George;S. Ashok	Novel Transformerless High Voltage Gain DC-DC Converter for Solar PV applications	2020 IEEE International Conference on Electronics, Computing and Communication Technologies	International	2020
3	Sharooq K.N.;Hema Rani P.;Saly George;S. Ashok	Novel High Gain Common Grounded Z-Source DC-DC Converter	2020 IEEE International Conference on Electronics, Computing and Communication Technologies	International	2020
4	S. Nair Syam Sundar;P. Hema Rani;Kuraganti Manikanta;Saly George;S. Ashok	Closed Loop Control of Multi Input DC to DC converter for DC Microgrid	2019 International Conference on Power Electronics Applications and Technology in Present Energy Scenario (PETPES)	International	2019

5	Rani P Hema, S Navasree, Saly George, S Ashok	Closed Loop Control of Multi Input DC to DC converter for DC Microgrid	International Conference on Current Trends towards Converging Technologies (ICCTCT)	International	2018
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Dr. Nikhil Sasidharan**Journals**

No.	Authors	Title	Details	National / International	Year
1	Frieda Mohan, Nikhil Sasidharan	Protection of low voltage DC microgrids: A review	Electric Power Systems Research https://doi.org/10.1016/j.epsr.2023.109822	International	2023
2	V.S. Renuka, S.A. Kannan, Nikhil Sasidharan, Abraham T. Mathew	Scalable-flexible architecture and power management strategy for a rural standalone DC community grid, International Journal of Electrical Power & Energy Systems	International Journal of Electrical Power & Energy Systems Volume 154, December 2023, 109412 https://doi.org/10.1016/j.ijepes.2023.109412	International	2023
3	Reema Narayanan, Jagadanand G, Nikhil Sasidharan, Shreelakshmi M P	A Novel Modularization Method for Voltage Equalization of Ultracapacitor Bank using Coupled Inductor	IEEE Transactions on Industrial Electronics, doi: 10.1109/TIE.2023.3277093.	International	2023
4	Reema N, Jagadanand G, Nikhil Sasidharan, Shreelakshmi M P	An Enhanced Coupled Inductor Based Voltage Equalizer for Matrix Connected Ultracapacitor Bank	IEEE Transactions on Transportation Electrification, vol. 9, no. 2, pp. 3328-3337 https://doi.org/10.1109/TTE.2022.3221939	International	2022
5	Nikhil Sasidharan,Nguyen Huy Phuoc. Nimal Madhu Manjiparambil'	A slack-bus-independent loss sensitivity approach for optimal day-ahead generation scheduling	Electrical Engineering https://doi.org/10.1007/s00202-021-01297-3	International	2021
6	Munshi, A.H., Sasidharan, N., Pinkayan, S., Barth, Kurt L., Sampath, W.S., Ongsakul, W.	Thin-film CdTe photovoltaics – The technology for utility scale sustainable energy generation	Solar Energy	International	2018

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No.	Authors	Title	Details	National / International	Year
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1	Irfan Habeeb Apm, Frieda Mohan, Nikhil Sasidharan	Improved Droop Control Algorithm for Accurate Load Sharing and Circulating Current Minimization in a Low-Voltage DC Grid	2024 Second International Conference on Smart Technologies for Power and Renewable Energy (SPECon) https://doi.org/10.1109/SPECon61254.2024.10537258	International	2024
2	Shilpa Rajan, Nikhil Sasidharan	Modified SoC Based Droop Control for A Standalone DC Nanogrid	2024 Second International Conference on Smart Technologies for Power and Renewable Energy (SPECon) https://doi.org/10.1109/SPECon61254.2024.10537295	International	2024
3	Smitha Joseph, SA Kannan, Nikhil Sasidharan	Single Coupled Inductor-Switched Capacitor High Gain Bidirectional DC-DC Converter	2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10404527	International	2023
4	Nikhil Sasidharan, Rijil Ramchand	A Novel Switched Capacitor Based Single Stage Inverter for Solar Power Extraction	2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10404722	International	2023
5	N Reema, G Jagadanand, N Sasidharan, MP Shreelakshmi	Parameter Estimation of Variable Leakage Resistance Model of Supercapacitor	2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE52268.2022.9715855	International	2022
6	F Mohan, N Sasidharan	A Novel State Space Model of an Interleaved Boost Converter operating over a wide range of duty ratio	2022 IEEE International Conference on Signal Processing, Informatics https://doi.org/10.1109/SPICES52834.2022.9774162	International	2022
7	VS Renuka, N Sasidharan, AT Mathew	Parameter Independent Backstepping Controller for Bidirectional Buck-Boost Converter in DC Grid Battery Interface with CPL	2022 IEEE International Conference on Signal Processing, Informatics https://doi.org/10.1109/SPICES52834.2022.9774121	International	2022
8	N Reema, G Jagadanand, N Sasidharan, MP Shreelakshmi	Comparative Analysis of CC-CV/CC Charging and Charge Redistribution in Supercapacitors	2021 31st Australasian Universities Power Engineering Conference (AUPEC), 1-5 https://doi.org/10.1109/AUPEC52110.2021.9597829	International	2021
9	VS Renuka, N Sasidharan, AT Mathew	Parameter Independent, Simple Backstepping Controller for PV Interface Boost Converter in DC Microgrids with CPL	2021 9th International Conference on Smart Grid (icSmartGrid), 158-162 https://doi.org/10.1109/icSmartGrid52357.2021.9551223	International	2021
10	SA Kannan, G Jagadanand, N Sasidharan	A Solo Source Based 27-Level Asymmetrical Cascaded H-Bridge Converter Fed Open Ended PMSM Drive	2021 7th International Conference on Electrical Energy Systems (ICEES), 352-357 https://doi.org/10.1109/ICEES51510.2021.9383740	International	2021
11	Reema N., Sreelakshmi M. P., Jagadanand G., Nikhil Sasidharan	A Noval Coupled Inductor based Active Balancing Technique for Ultracapacitors	IEEE PEDES (Power Electronics Drives and Energy System) 2020	International	2020
12	Frieda Mohan, Nikhil Sasidharan	DC Microgrid and its Protection - A Review	IEEE International Conference on POWER INSTRUMENTATION CONTROL AND COMPUTING (PICC 2020)	International	2020

13	Laopaiboon, T., Ongsakul, W., Panyainkaew, P., Sasidharan, N.	Hour-Ahead Solar Forecasting Program Using Back Propagation Artificial Neural Network	2018 International Conference on Green Energy for Sustainable Development, ICUE 2018; Phuket; Thailand;	International	2018
14	Sasidharan, N., Ongsakul, W., Varghese, M.P., Anooja, V.S., Akhila, R.	Efficient improvement of solar photo voltaic system using artificial cooling methods	4th International Conference on Power, Signals, Control and Computation, EPSCICON 2018; Thrissur; India;	International	2018

Dr. Shreelakshmi M. P**Journals**

No	Authors	Title	Details with DOI	National / International	Year
1	Reema N, Jagadanand G, Nikhil Sasidharan, Shreelakshmi M P	An Enhanced Coupled Inductor Based Voltage Equalizer for Matrix Connected Ultracapacitor Bank	IEEE Transactions on Transportation Electrification https://doi.org/10.1109/TTE.2022.3221939	International	2022
2	Reema Narayanan, Jagadanand G, Nikhil Sasidharan, Shreelakshmi M P	A Novel Modularization Method for Voltage Equalization of Ultracapacitor Bank using Coupled Inductor	IEEE Transactions on Industrial Electronics, Vol. 58, No. 5, PP. 6227-6236, Sept.-Oct. 2022 https://doi.org/10.1109/TIE.2023.3277093	International	2022
3	R. A. Raj, D. S. Nair, S. MP and S. George,	A Novel High-Voltage Gain Circuit Topology for Commutation Torque Ripple Reduction	10.1109/TIA.2022.3186289. https://doi.org/10.1109/TIA.2022.3186289	International	2022
4	S. Meleettil Pisharam and V. Agarwal	Design and Development of a Novel High Voltage Gain, High-Efficiency Bidirectional DC-DC Converter for Storage Interface	10.1109/TIE.2018.2860539. https://doi.org/10.1109/TIE.2018.2860539	International	2018
5	S. Meleettil Pisharam and V. Agarwal	Novel High-Efficiency High Voltage Gain Topologies for AC-DC Conversion With Power Factor Correction for Elevator Systems	10.1109/TIA.2018.2860952 https://doi.org/10.1109/TIA.2018.2860952	International	2018

Conferences

No	Authors	Title	Name of conference (with DOI if available)	National / International	Year
1	Vishnu Ajith, Shifa H Rahman, MP Shreelakshmi	Modelling and Parameter Estimation of Super Capacitor Bank under Balanced and Unbalanced conditions	2023 4th International Conference on Intelligent Technologies (CONIT) https://doi.org/10.1109/CONIT61985.2024.10627453	International	2024
2	PP Parvati, MP Shreelakshmi	DC-DC Converter with Wide Voltage Conversion Ratio and Improved Current Capability for Charging Ultracapacitor Bank	2024 International Conference on E-mobility, Power Control and Smart Systems (ICEMPS) https://doi.org/10.1109/ICEMPS60684.2024.10559288	International	2024
3	A Shahin, Deepthi S Nair, MP Shreelakshmi, Rijil Ramchand	Design and Analysis of Maximum Power Factor Control for a Three Phase Synchronous Reluctance Motor	2023 5th Global Power, Energy and Communication Conference (GPECOM) https://doi.org/10.1109/GPECOM58364.2023.10175803	International	2023

4	P Anuroop, N Reema, MP Shreelakshmi	Fuzzy Based Intelligent Voltage Balancing Scheme for Matrix Connected Ultracapacitor Bank	2023 5th Global Power, Energy and Communication Conference (GPECOM) https://doi.org/10.1109/GPECOM58364.2023.10175787	International	2023
5	MP Shreelakshmi	Wide Voltage Conversion Ratio DC-DC Converter for Charging Ultracapacitor Bank	2023 5th Global Power, Energy and Communication Conference (GPECOM) https://doi.org/10.1109/GPECOM58364.2023.10175764	International	2023
6	R Akhil Raj; Shreelekshmi MP; Saly George	A Constant Frequency based Torque Ripple Free Three Level Npc Brushless Motor Drive	2023 IEEE Texas Power and Energy Conference (TPEC) https://doi.org/10.1109/TPEC56611.2023.10078712	International	2023
7	M Shilpi, Shreelakshmi M P, Rijil Ramchand	Modelling and Comparative Analysis of Torque Profile of Six Phase and Three Phase Synchronous Reluctance Motor for Electric Vehicle Applications	2022 International Conference on Futuristic Technologies in Control Systems & Renewable Energy (ICFCR), 21-22 July 2022, MESCE Kuttippuram, Kerala, India https://doi.org/10.1109/ICFCR54831.2022.9893543	International	2022
8	N. Reema, G. Jagadanand, N. Sasidharan and M. P. Shreelakshmi	Parameter Estimation of Variable Leakage Resistance Model of Supercapacitor,	10.1109/PESGRE52268.2022.9715855 https://doi.org/10.1109/PESGRE52268.2022.9715855	International	2022
9	M. C. Lazar and M. P. Shreelakshmi	Efficient Bidirectional DC-DC Converter using Digital Adaptive Frequency Modulation	10.1109/IPRECON52453.2021.9641029 https://doi.org/10.1109/IPRECON52453.2021.9641029	International	2021
10	R. A. Raj, D. S. Nair, S. M. P and S. George,	A Switched Capacitor Based BLDC Drive	10.1109/PEDES49360.2020.9379364	International	2020
11	R. A. Raj, M. P. Shreelakshmi and S. George	Multiband Hysteresis Current Controller for Three Level BLDC Motor Drive	10.1109/PICC51425.2020.9362358	International	2020
12	R. Bhosale, W. Warshe, M. P. Shreelakshmi, P. Arlikar, A. K. Prakash and V. Agarwal	Performance comparison of Two PWM techniques applied to BLDC motor control,	10.1109/PICC.2018.8384801.	International	2018

Dr. Harish Sudhakaran Nair

Sl. No	Authors	Title	Details	National / International	Year
1	HS Nair, N Lakshminarasamma	A Computationally Simple Predictive CCM Average Current Controller With Nearly Zero Tracking Error for Boost PFC Converter	IEEE Transactions on Industry Applications 56 (5), 5083-5094 10.1109/TIA.2020.2999268	International	2020
2	HS Nair, NL Narasamma	An improved digital algorithm for boost PFC converter operating in mixed conduction mode	IEEE Journal of Emerging and Selected Topics in Power Electronics 10.1109/JESTPE.2019.2932153	International	2019
3	Harish Sudhakaran Nair, Lakshmi Narasamma	Simple digital algorithm for improved performance in a boost PFC converter operating in CCM	IET Power Electronics https://doi.org/10.1049/iet-pel.2018.5250	International	2019

Conference

Sl. No	Authors	Title	Details	National / International	Year
1	Abdul Nazer P, Harish Sudhakaran Nair	Comparative Analysis of FS-MPC Algorithms and a Modified Dwell Time Calculation Method for Vienna Rectifier	2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10404567	International	2023
2	Abdul Nazer P, Harish Sudhakaran Nair	FS-MPC Algorithm with Enhanced Reference Tracking and Fixed Switching Frequency for Vienna Rectifier based EV Chargers	2024 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10405251	International	2023
3	Aaliya Farzana, Rijil Ramchand, Harish Sudhakaran Nair	A Survey of Bi-directional DC-DC Converters for Transportation Electrification and Microgrid Applications	2023 International Conference on Power, Instrumentation, Control and Computing (PICC) https://doi.org/10.1109/PICC57976.2023.10142639	International	2023
4	Harish Sudhakaran Nair, N Lakshminarasamma	Analysis and Considerations for Deadbeat Predictive Current Control of Boost PFC Converter	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2020
5	Harish Sudhakaran Nair, N Lakshminarasamma	An Improved FS-MPC Algorithm for Vienna Rectifier Based EV Chargers	IEEE Transportation Electrification Conference & Expo (ITEC)	International	2020

6	Harish Sudhakaran Nair, N Lakshminarasamma	Generalized Predictive DCM Average Current Controller and Digital Conduction Mode Detection Method for Power Converters	IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE2020)	International	2020
7	Harish Sudhakaran Nair, N Lakshminarasamma	Predictive Average Current Control Considering Non- Idealities for a Boost PFC Converter	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2018
8	Harish Sudhakaran Nair, N Lakshminarasamma	Implementation Aspects of a Single Phase Boost PFC Converter	IECON 2018-44th Annual Conference of the IEEE Industrial Electronics Society	International	2018

Dr. Kumaravel S

Journals

No	Authors	Title	Details	National/ International	Year
1	Sija Gopinathan, Vemparala Seshagiri Rao, Kumaravel Sundaramoorthy, Bos Mathew Jos	Family of high-gain quadratic symmetrical active impedance network-based DC-DC converters with fault ride-through feature	Electric Power Components and Systems https://doi.org/10.1080/15325008.2023.2238711	International	2024
2	Sija Gopinathan, Vemparala Seshagiri Rao, Kumaravel Sundaramurthy	Switched inductor-capacitor-based quasi-Z source converter for renewable energy source integration	International Journal of Circuit Theory and Applications https://doi.org/10.1002/cta.3661	International	2023
3	Sija Gopinathan, Vemparala Seshagiri Rao, Kumaravel Sundaramoorthy	Controllability Analysis and Controller Design of Higher Order Novel Switched Inductor–Capacitor DC–DC Converters	IEEE Transactions on Industrial Electronics https://doi.org/10.1109/TIE.2023.3290234	International	2023
4	Varghese, J.P., Sundaramoorthy, K. and Sankaran, A.	Development and Validation of a Load Flow Based Scheme for Optimum Placing and Quantifying of Distributed Generation for Alleviation of Congestion in Interconnected Power Systems	Energies, 16(6), p.2536, 2023 https://doi.org/10.3390/en16062536	International	2023
5	S. Gopinathan, V. Seshagiri Rao and S. Kumaravel	Enhanced Voltage Gain Boost DC-DC Converter with Reduced Voltage Stress and Core Saturation	IEEE Transactions on Circuits and Systems II: Express Briefs https://doi.org/10.1109/TCSII.2023.3252721 2023.	International	2023
6	V. Seshagiri Rao, S. Tapaswi and S. Kumaravel	Extendable Bidirectional DC–DC Converter With Improved Voltage Transfer Ratio and Reduced Switch Count	IEEE Journal of Emerging and Selected Topics in Industrial Electronics, volume. 4, issue 2 pp. 460–470 2023 https://doi.org/10.1109/JESTIE.2022.3233295	International	2023
7	S. G. Sadhana, S. Kumaravel and S. Ashok	Revamped Sine Cosine Algorithm Centered Optimization of System Stabilizers and Oscillation Dampers for Wind Penetrated Power System,	IEEE Access, volume. 11 pp. 1890-1905 2023 https://doi.org/10.1109/ACCESS.2022.3232294	International	2023
8	TS Bheemraj, V Karthikeyan, S Kumaravel	A quintuple phase shift modulation scheme in multilevel dual active bridge converter for battery energy storage system	International Journal of Circuit Theory and Applications, Vol. 51 (4), pp. 1665-1684, 2023 https://doi.org/10.1002/cta.3508	International	2023
9	TS Bheemraj, D Prajapathi, V Karthikeyan, S Kumaravel	A Novel High Gain Non-Isolated Three-Port DC–DC Converter for DC Microgrid Applications	Journal of Circuits, Systems and Computers, doi.org/10.1142/S0218126623502262	International	2023
10	P. Emmanuel Babu, S. Vemparala, T. Pavithra and S. Kumaravel	Switched LC Network-Based Multistage Ultra Gain DC-DC Converter	IEEE Access, vol. 10, pp. 64701-64714, 2022, doi: 10.1109/ACCESS.2022.3183015 .	International	2022

11	Seshagiri Rao and Kumaravel S.	Ultra-Voltage Gain Bidirectional DC-DC Converter with Reduced Switch Voltage Stress and Improved Efficiency	IEEE Transactions on Circuits and Systems II: Express Briefs. doi: 10.1109/TCSII.2022.3189248	International	2022
12	Janesh N. Mohan, Kumaravel S. and Ashok S	Diffuser Augmented Wind Turbines – A Case Study for Hybrid Energy System Applications and Comparison with Horizontal Axis Wind Turbines	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Taylor and Francis (Accepted) https://doi.org/10.1080/15567036.2022.2101719	International	2022
13	Sija Gopinathan, V. Seshagiri Rao and S. Kumaravel	Family of Non-Isolated Quadratic High Gain DC-DC Converters based on Extended Capacitor-Diode Network for Renewable Energy Source Integration	IEEE Journal of Emerging and Selected Topics in Power Electronics, doi: 10.1109/JESTPE.2022.3167283.	International	2022
14	Seshagiri Rao V. and S. Kumaravel	Performance Analysis of Voltage Multiplier Coupled Cascaded Boost Converter with Solar PV Integration for DC Microgrid Application	IEEE Transactions on Industry Applications. DOI: 10.1109/TIA.2022.3209616	International	2021
15	Kumaravel S. and Emmanuel Babu P	"Reduced Switch Voltage Stress Ultra-gain DC-DC Converter for High Voltage Low Power Applications	IEEE Transactions on Circuits and Systems II: Express Briefs. vol. 69, no. 3, pp. 1277-1281, March 2022, doi: 10.1109/TCSII.2021.3107552.	International	2021
16	Vinu Thomas, S. Kumaravel, S Ashok,	Fuzzy Controller-based Self-Adaptive Virtual Synchronous Machine for Microgrid Application	IEEE Transactions on Energy Conversion, Vol. 36(3), Sept. 2021, pp. 2427 – 2437 DOI: 10.1109/TEC.2021.3057487.	International	2021
17	Shanthi Seshadri, S. U. Prabha and S. Kumaravel	Non-isolated n-stage High Step-up DC-DC Converter for Low voltage DC Source Integration	IEEE Transactions on Energy Conversion, Vol. 36(3), Sep 2021, pp. 1625 – 1634, DOI: 10.1109/TEC.2021.3050421	International	2021
18	V. Thomas, S. kumaravel, S. Ashok	Fuzzy Controller-based Self-Adaptive Virtual Synchronous Machine for Microgrid Application	IEEE Transactions on Energy Conversion https://doi.org/10.1109/TEC.2021.3057487	International	2021
19	T.shanthi,SU Prabha, K Sundaramoorthy	Non-isolated n-stage High Step-up DC-DC Converter for Low voltage DC Source Integration	IEEE Transactions on Energy Conversion https://doi.org/10.1109/TEC.2021.3050421	International	2021
20	RA Narayanankutty, A Sankar, K Sundaramoorthy	Modeling and scheduling of residential electric loads for energy self-sufficiency	International Journal of Numerical Modelling: Electronic Networks, Devices https://doi.org/10.1002/jnm.2782	International	2021
21	GG Kumar, S Kumaravel	Dual-Input Non-isolated DC-DC Converter with Vehicle to Grid Feature	IEEE Journal of Emerging and Selected Topics in Power Electronics	International	2020
22	GG Kumar, MVS Krishna, S Kumaravel, E Babaei	Multi-stage DC-DC Converter using Active LC2D Network with Minimum Component	IEEE Transactions on Circuits and Systems II	International	2020
23	G Gurukumar, MVS Krishna, K Sundaramoorthy, E Babaei	SiC-based high-gain DC–DC converters with fault ride-through capability	IET Power Electronics	International	2020

24	K Gupta, R Achathuparambil Narayanankutty, K Sundaramoorthy	Optimal location identification for aggregated charging of electric vehicles in solar photovoltaic powered microgrids with reduced distribution losses	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	International	2020
25	DP Winston, S Kumaravel, BP Kumar, S Devakirubakaran	Performance improvement of solar PV array topologies during various partial shading conditions	Solar Energy	International	2020
26	G Haritha, S Kumaravel, S Ashok	Xilinx system generator-based rapid prototyping of solid-state transformer for on-grid renewable energy integration	IEEE Journal of Emerging and Selected Topics in Power Electronics	International	2020
27	GG Kumar, K Sundaramoorthy, V Karthikeyan, E Babaei	Switched Capacitor–Inductor Network Based Ultra-Gain DC–DC Converter Using Single Switch	IEEE Transactions on Industrial Electronics	International	2020
28	V Karthikeyan, K Sundaramoorthy, GG Kumar, E Babaei	Regenerative switched-inductor/capacitor type DC–DC converter with large voltage gain for PV applications	IET Power Electronics	International	2019
29	K Sundaramoorthy, V Thomas, T O'Donnell, S Ashok	Virtual synchronous machine-controlled grid-connected power electronic converter as a ROCOF control device for power system applications	Electrical Engineering	International	2019
30	RK Mathew, A Sankar, K Sundaramoorthy	An efficient and fast fault recovery algorithm for a resilient grid under extreme events	Energy sources, part A: recovery, utilization, and environmental effects	International	2019
31	S Kumaravel, V Thomas, T O'Donnell, S Ashok	Transient Frequency Response Improvement in Microgrid Using Virtual Synchronous Machine	Journal of The Institution of Engineers	national	2019
32	S Kumaravel, RA Narayanankutty, VS Rao, A Sankar	Dual input–dual output DC–DC converter for solar PV/battery/ultra-capacitor powered electric vehicle application	IET Power Electronics	International	2019
33	GG Kumar, K Sundaramoorthy, S Athikkal, V Karthikeyan	Dual input superboost DC–DC converter for solar powered electric vehicle	IET Power Electronics	International	2019
34	S Athikkal, GG Kumar, K Sundaramoorthy, A Sankar	A non-isolated bridge-type DC–DC converter for hybrid energy source integration	IEEE Transactions on Industry Applications	International	2019
35	V Karthikeyan, S Kumaravel, G Gurukumar	High step-up gain DC–DC converter with switched capacitor and regenerative boost configuration for solar PV applications	IEEE Transactions on Circuits and Systems II	International	2019
36	S Kumaravel, V Thomas, TV Kumar, S Ashok	Development of the synchronverter for green energy integration	Distributed Energy Resources in Microgrids	International	2019

37	RK Mathew, A Sankar, K Sundaramoorthy, AN Jayadeebhai	An improved algorithm for power distribution system restoration using microgrids for enhancing grid resiliency	Electric Power Components and Systems	International	2018
38	S Athikkal, G Guru Kumar, K Sundaramoorthy, A Sankar	Performance analysis of a positive output voltage dual input dc-dc converter for hybrid energy application	Journal of Circuits, Systems and Computers	International	2018
39	S Athikkal, K Sundaramoorthy, A Sankar	Development and performance analysis of dual-input DC-DC converters for DC microgrid application	IEEE Transactions on Electrical and Electronic Engineering	International	2018
40	T Vinu, S Athikkal, K Sundaramoorthy, A Sankar	Testing of a Solar-PV/Wind Operated AC-DC Microgrid with LabVIEW Controller	International Journal of Power Electronics and Drive Systems	International	2018

Conference

No	Authors	Title	Details	National/ International	Year
1	S Kumaravel, AN Ravishankar, V Seshagiri Rao, K Nikhil	Non-isolated Single Inductor-Based Dual-Input Bidirectional DC-DC Converter with ZCS for Integrating Battery Stack	2024 IEEE International Communications Energy Conference (INTELEC) https://doi.org/10.1109/INTELEC60315.2024.10678998	International	2024
2	V Seshagiri Rao, K Nikhil, S Kumaravel	Steady-state Analysis of a Novel Non-isolated Multi-input High Gain DC-DC Converter	2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10404734	International	2023
3	Fathima Shijad, S Kumaravel	Design and Analysis of Switched Inductor-Based Quadratic Boost Converter with Enhanced Voltage Gain and Reduced Component Voltage Stress	2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10405069	International	2023
4	Joseph P Varghese, S Ashok, S Kumaravel	System Indices-Based Congestion Relief Methodologies Using Distributed Generation in Advanced Power System Planning	2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE) https://doi.org/10.1109/PESGRE58662.2023.10404272	International	2023
5	V Seshagiri Rao, Ninu Joy, S Kumaravel	Ultra-high Voltage Gain Non-isolated DC-DC Converter with Continuous Input Current	2023 11th National Power Electronics Conference (NPEC) https://doi.org/10.1109/NPEC57805.2023.10384980	National	2023
6	Sija Gopinathan, N Anfas Rahman, Arjun Vinodkumar, S Kumaravel	Bidirectional Buck-Boost Converter with Improved Voltage Transfer Ratio for V2V Application	2023 11th National Power Electronics Conference (NPEC) https://doi.org/10.1109/NPEC57805.2023.10384935	National	2023

7	T Vysagh, S Kumaravel	Quadratic Gain-Based Boost Converter: Reduced Switch Current and Component Voltage Stress	2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) https://doi.org/10.1109/ETFG55873.2023.10408490	International	2023
8	V Seshagiri Rao, T Vysagh, S Kumaravel	Enhancing Efficiency of High-Gain DC-DC Converters for Seamless Integration of Renewable Energy Sources Through Current Stress Reduction	IECON 2023-49th Annual Conference of the IEEE Industrial Electronics Society https://doi.org/10.1109/IECON51785.2023.10312213	International	2023
9	V. Seshagiri Rao, S. P. Kumar, Kumaravel S. and Anjana M.P,	n-Stage Bidirectional Quadratic Boost Converter with Reduced Switch Voltage and Current Stress	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES), pp. 1 - 6, 2022 https://doi.org/10.1109/PEDES56012.2022.10080579	International	2022
10	Anjana M. P and Kumaravel S.	Speed Control of Quadratic Boost Converter Coupled Inverter fed PMSM for Electric Vehicle	IEEE 19th India Council International Conference (INDICON), Kochi, India, pp. 1 - 5, 2022 https://doi.org/10.1109/INDICON56171.2022.10040198	International	2022
11	Vysagh T and Kumaravel S	Application of Non-Isolated Quadratic Boost DC- DC Converter for Solar PV Integration;	IEEE 19th India Council International Conference (INDICON), Kochi, India, pp. 1 - 5, 2022 https://doi.org/10.1109/INDICON56171.2022.10039996	International	2022
12	Kumaravel S., S. Gopinathan and G. H. Kumar	Continuous Current Featured Quadratic Boost Converter with Xilinx System Generator-Based PI Controller for Renewable Energy Integration	IEEE 19th India Council International Conference (INDICON), Kochi, India, pp. 1 - 5, 2022 https://doi.org/10.1109/INDICON56171.2022.10040210	International	2022
13	J. N. Mohanan, S. Kumaravel and S. Ashok	Performance Analysis of Diffuser Augmented Wind Turbine/Battery-Hybrid Energy System	EEE Delhi Section Conference (DELCON), 11-13 Feb. 2022, at New Delhi, India https://doi.org/10.1109/DELCON54057.2022.9753617	International	2022
14	S. Gopinathan, V. S. Rao and S. Kumaravel	Multistage High Gain DC-DC Converter Topologies using SDLC Network for DC Microgrid	IECON 2021 – 47th Annual Conference of the IEEE Industrial Electronics Society, 13-16 Oct. 2021, Toronto, ON, Canada https://doi.org/10.1109/IECON48115.2021.9589551	International	2021
15	MVS Krishna, T Pavithra, S Kumaravel	Performance Analysis of Switched Inductor-based Dual-Input DC-DC Converter with High DC-Voltage Gain	IEEE Region 10 Symposium (TENSYP)	International	2020
16	T Pavithra, MVS Krishna, S Kumaravel	A Novel Dual-Input High Gain DC-DC Converter for Hybrid Energy Sources Integration	International Conference for Emerging Technology (INCET)	International	2020
17	GG Kumar, VS Rao, S Kumaravel	Bidirectional Switched Active LC network based Dual input Non-isolated DC-DC converter	2020 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE2020)	International	2020
18	K Sundaramoorthy	Switched Inductor-Capacitor Network Based Non-Isolated DC-DC Converter: A Double Gain Converter with Single Switch	National Power Electronics Conference (NPEC)	International	2019

19	SC Reddy, S Muthukumari, TKS Kumar, S Kumaravel, S Kanagalakshmi	TLBO based Droop Optimization Technique for DC Microgrid	IEEE Region 10 Conference (TENCON)	International	2019
20	AN Ravishankar, S Kumaravel, S Ashok	Bidirectional Dual Input Single Output DC-DC Converter for Electric Vehicle Charger Application	IEEE 8th Global Conference on Consumer Electronics (GCCE)	International	2019
21	KP Roshan, K Veeranna, S Antony, S Kumaravel, R Ramchand	A Low Cost Development Tool for Educating Electric Machines	IECON 2019-45th Annual Conference of the IEEE Industrial Electronics Society	International	2019
22	TS Bheemraj, B Krishna, V Karthikeyan, S Kumaravel	High Accurate Dual Loop Controller for Power Regulation in DAB DC-DC Converter for Solar PV Applications	International Conference on Computing, Power and Communication Technologies (GUCON)	International	2019
23	K Hadif Abdul Sahid, Vinu Thomas, S Kumaravel, S Ashok	Performance Comparison of Root-finding Algorithms for Solar Photovoltaic Emulator	International Conference on Power Electronics Applications and Technology in Present Energy Scenario (PETPES)	International	2019
24	V Thomas, S Kumaravel, S Ashok	Reduction of Frequency Oscillations in Solar PV Microgrid using Virtual Synchronous Machine	International Conference on Power Electronics Applications and Technology in Present Energy Scenario (PETPES)	International	2019
25	AR Brahma, S Kumaravel, V Thomas, S Ashok	Impact of System Parameters on the Performance of Synchronverter	IEEE Region 10 Symposium (TENSYP)	International	2019
26	S Kumaravel, V Karthikeyan, GG Kumar, TJ Jithin, VS Rao	Dual-Input Dual-Output DC-DC Converter for DC Microgrid Applications	IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2018

Dr. V Karthikeyan**Journals**

No	Authors	Title	Details	National/ International	Year
1	TS Bheemraj, V Karthikeyan	PSO based universal phase shift modulation scheme for DAB converter to eliminate backflow power in energy storage applications	International Journal of Circuit Theory and Applications https://doi.org/10.1002/cta.3615	International	2023
2	TS Bheemraj, V Karthikeyan, S Kumaravel	A quintuple phase shift modulation scheme in multilevel dual active bridge converter for battery energy storage system	International Journal of Circuit Theory and Applications, Vol. 51 (4), pp. 1665-1684, 2023 https://doi.org/10.1002/cta.3508	International	2023
3	TS Bheemraj, D Prajapathi, V Karthikeyan, S Kumaravel	A Novel High Gain Non-Isolated Three-Port DC–DC Converter for DC Microgrid Applications	Journal of Circuits, Systems and Computers, doi.org/10.1142/S0218126623502262	International	2023
4	Bekkam Krishna, V Karthikeyan	A novel bi-directional high-gain DC-DC converter with optimum number of components	International Journal of Circuit Theory and Applications https://doi.org/10.1002/cta.3421	International	2023
5	TS Bheemraj, V Karthikeyan	A Hybrid Structured High Step-Up DC-DC Converter for Integration of Energy Storage Systems in Military Applications	IEEE Transactions on Circuits and Systems II: Express Briefs https://doi.org/10.1109/TCSII.2022.3225900	International	2022
6	Bekkam Krishna and V. Karthikeyan	Ultra-Voltage Gain Step-Up DC-DC Converter for Renewable Energy Micro-Source Applications	IEEE Transactions on Energy Conversion, vol. 37, no. 2, pp. 947-957, https://doi.org/10.1109/TEC.2021.3116076	International	2022
7	Bhanu, Kumari Subrata, Aman Tripathi, Bekkam Krishna, and V. Karthikeyan	Implementation on Smart Vehicle Management System using IoT Technology.	International Journal of Computing and Digital Systems Vol. 11, no. 1, March 2022.	International	2022
8	Bekkam Krishna, G. Lithesh, and V. Karthikeyan.	A Novel High-Gain Bi-Directional DC-DC Converter for EV On-Broad Charger Applications	International Journal of Circuit Theory and Applications, March, 2022. [DOI: 10.1002/cta.3268] https://doi.org/10.1002/cta.3268	International	2022
9	Bekkam Krishna, P. Uma Maheswar Rao, and V. Karthikeyan	High-gain single-switch single-input dual-output DC-DC converter with reduced switching stress	International Journal of Circuit Theory and Application Feb. 2022. [DOI:10.1002/cta.3240]	International	2022
10	Bekkam Krishna and V. Karthikeyan	Active Switched-Inductor Network Step-Up DC–DC Converter With Wide Range of Voltage-Gain at the Lower Range of Duty Cycles	IEEE Journal of Emerging and Selected Topics in Industrial Electronics, vol. 2, no. 4, pp. 431-441, Oct. 2021 https://doi.org/10.1109/JESTIE.2021.3097943	International	2021

11	Krishna, B., Anusha, D., Karthikeyan V	Ultra-Fast DC Charger with Improved Power Quality and Optimal Algorithmic Approach to Enable V2G and G2V	Journal of Circuits, Systems and Computers, 29(12), Sep. 2021 https://doi.org/10.1142/S0218126620501972	International	2021
12	Krishna, Bekkam, T. S. Bheemraj, and V. Karthikeyan	Optimized Active Power Management in Solar PV-Fed Transformerless Grid-Connected System for Rural Electrified Microgrid.	Journal of Circuits, Systems and Computers Vol. 03, pp. 3-9, March 2021. https://doi.org/10.1142/S0218126621500390	International	2021
13	B Krishna, D Anusha, V Karthikeyan	Ultra-Fast DC Charger with Improved Power Quality and Optimal Algorithmic Approach to Enable V2G and G2V	Journal of Circuits, Systems and Computers 29 (12), 2050197	International	2020
14	B Krishna, TS Bheemraj, V Karthikeyan	Optimized Active Power Management in Solar PV-Fed Transformerless Grid-Connected System for Rural Electrified Microgrid	Journal of Circuits, Systems and Computers, 2150039	International	2020
15	A Satish, V Karthikeyan, PS Srinivasareddy, A Raja	A survey on latest developments and applications in supply chain management using IOT	Journal of Critical Reviews 7 (8), 1170-1179	International	2020
16	G Nalinashini, N Padmavathi, V Karthikeyan	Fuzzy Logic based Speed Controlled In-Wheel Switched Reluctance Motor for Electric Vehicles	Solid State Technology 63 (3), 1346-1354	International	2020
17	GG Kumar, K Sundaramoorthy, V Karthikeyan, E Babaei	Switched Capacitor–Inductor Network Based Ultra-Gain DC–DC Converter Using Single Switch	IEEE Transactions on Industrial Electronics 67 (12), 10274-10283	International	2020
18	V Karthikeyan, K Sundaramoorthy, GG Kumar, E Babaei	Regenerative switched-inductor/capacitor type DC–DC converter with large voltage gain for PV applications	IET Power Electronics 13 (1), 68-77	International	2019
19	V Karthikeyan, R Gupta	Distributed power flow control using cascaded multilevel isolated bidirectional DC–DC converter with multi-phase shift modulation	IET Power Electronics 12 (11), 2996-3003	International	2019
20	GG Kumar, K Sundaramoorthy, S Athikkal, V Karthikeyan	Dual input superboost DC–DC converter for solar powered electric vehicle	IET Power Electronics 12 (9), 2276-2284	International	2019
21	A Vinothkumar, V Karthikeyan	A Static Non-Linear Controlled Bridge Type Fault Current Limiter for Transient Stability Augmentation of Multi-Machine Power System	International Journal of Electrical Engineering & Technology, 10(1), 2019, pp.11-16	International	2019
22	V Karthikeyan, S Kumaravel, GG kumar	High Step-Up Gain DC-DC Converter with Switched Capacitor and Regenerative Boost Configuration for Solar PV Applications	IEEE Transactions on Circuits and Systems II: Express Briefs	International	2019
23	S Tamilselvi, S Baskar, L Anandapadmanaban, V Karthikeyan	Multi objective evolutionary algorithm for designing energy efficient distribution transformers	Swarm and Evolutionary Computation 42, 109-124	International	2018

Conferences

No	Authors	Title	Details	National/ International	Year
1	PKV Prasad Babu, D Geethasri, KD Padmaja, S Pragaspathy, V Karthikeyan, M Sudagar	An Intelligent Controller-based Water Pumping Applications Driven by Solar Power	2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA) https://doi.org/10.1109/ICIRCA57980.2023.10220928	International	2023
2	V. Karthikeyan, K.N Thirukuralkani, K. Srinivasan S.N Abdul Salam	A Novel Auxiliary Switching Unit based DC-DC Boost Converter	International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2022)	International	2022
3	K. N. Thirukuralkani, V. Karthikeyan, K. Srinivasan S. N. Abdul Salam	A Novel Hybrid Interleaved DC-DC Converter for Micro Grid Application	International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 2022)	International	2022
4	G. Litesh, B. Krishna and V. Karthikeyan	Review and Comparative Study of Bi-Directional DC-DC Converters	2021 IEEE International Power and Renewable Energy Conference (IPRECON), 2021, pp. 1-6, doi: 10.1109/IPRECON52453.2021.9640712.	International	2021
5	C. P. Kumar, S. Pragaspathy, V. Karthikeyan and K. N. S. Durga Prakash	Power Quality Improvement for a Hybrid Renewable Farm Using UPQC	2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS), 2021, pp. 1483-1488, doi: 10.1109/ICAIS50930.2021.9396048.	International	2021
6	Mahi Teja Talluri, SS Arya, Aman Tripathi, V Karthikeyan	IoT based Multipurpose Uniform Water Showering Mechanism for Urban Agriculture	2020 IEEE First International Conference on Smart Technologies for Power, Energy and Control (STPEC)	International	2020
7	SS Arya, MT Talluri, V Karthikeyan	An IoT Enabled Electric Tricycle Monitoring System	2020 IEEE Students Conference on Engineering & Systems (SCES), 1-6	International	2020
8	TS Bheemraj, B Krishna, V Karthikeyan, S Kumaravel	High Accurate Dual Loop Controller for Power Regulation in DAB DC-DC Converter for Solar PV Applications	2019 International Conference on Computing, Power and Communication Technologies (GUCON)	International	2019
9	V Karthikeyan, S Rajasekar, S Pragaspathy, F Blaabjerg	Core Loss Estimation of Magnetic Links in DAB Converter Operated in High-Frequency Non-Sinusoidal Flux Waveforms	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2018
10	V Karthikeyan, S Rajasekar, S Pragaspathy, F Blaabjerg	A High efficient DAB converter under heavy load conditions using inner phase shift control	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2018
11	S Kumaravel, V Karthikeyan, GG Kumar, TJ Jithin, VS Rao	Dual-Input Dual-Output DC-DC Converter for DC Microgrid Applications	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2018

12	R Sharma, V Kumar, S Sharma, V Karthikeyan, S Kumaravel	High Efficient Solar PV fed Grid Connected system	2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)	International	2018
13	S Rajasekar, V Karthikeyan, N Kumaresan	Experimental Validation of CCM and DCM Operations of Semi-Bridgeless Boost Rectifier for Power Quality Improvement in UPS System	2018 20th National Power Systems Conference (NPSC), 1-6	International	2018
14	S Kumaravel, GG Kumar, K Veeranna, V Karthikeyan	Novel Non-isolated Modified Interleaved DC-DC Converter to Integrate Ultracapacitor and Battery Sources for Electric Vehicle Application	2018 20th National Power Systems Conference (NPSC), 1-6	International	2018
15	V Karthikeyan, PV Das, F Blaabjerg	Implementation of MPPT control in fuel cell fed high step up ratio DC-DC converter	Implementation of MPPT control in fuel cell fed high step up ratio DC-DC converter	International	2018