

LIST OF PUBLICATIONS

Faculty: Dr Ramanjaneya Reddy U

Department of Electrical and Electronics Engineering

JOURNAL PUBLICATIONS

Ravi Eswar Kodumur Meesala, **Ramanjaneya Reddy Udumula**, Tousif Khan Nizami, Alireza Hosseinpour “Development of Enhanced Direct Torque Control for Permanent Magnet Synchronous Motor Drive Operation in Electric Vehicle Application” *IET Power Electronics*, DOI: 10.1049/pel2.12504 (Accepted for Publication). **(SCI & Scopus Indexed)**.

Aswini Patakamoori, **Ramanjaneya Reddy Udumula** and Tousif Khan Nizami, “Soft-Switched Full-Bridge Converter for LED Lighting Applications with Reduced Switch Current” *International Journal of Circuit Theory and Applications*, 51 (4), 1740-1757. DOI: 10.1049/pel2.12504 **(SCI & Scopus Indexed)**.

Vijayan Maya, **Ramanjaneya Reddy Udumula** Tarkeshwar Mahto, Bhamidi Lokeshgupta. “Optimal PI-Controller-Based Hybrid Energy Storage System in DC Microgrid.” *Sustainability*, Vol. 14, no. 22, pp. 14666, 2022. **(SCI & Scopus Indexed)**.

Phani Sri Rahul Kotana, Hima Bindu SK, **Ramanjaneya Reddy Udumula** and Srikanth Goud, “High Gain Boost Converter Fed Single-Phase Sine Pulse Width Modulated Inverter” *International Journal of Renewable Energy Research*, Vol. 12, no. 2, pp.659-666, 2022. **(Scopus & ESCI Indexed)**

Tousif Khan Nizami, Sasank Das Gangula, **Ramanjaneya Reddy Udumula** Harsh S. Dhiman Legendre Neural Network based Intelligent Control of DC-DC Step Down Converter-PMDC Motor Combination” *IFAC-Papers Online*, vol. 55, no. 1, pp. 162-167, 2022. **(Scopus & ESCI Indexed)**.

Maya Vijayan, **Ramanjaneya Reddy Udumula** and Tarkeshwar Mahto, “Comparative Study of Various DC-DC Converter Topologies for PV Powered EV Charging Stations” *ECS Transactions*, vol. 107, no. 1, pp.709-720, 2022. **(Scopus Indexed)**.

Srikanth Goud B, Rami Reddy, Naga Sai kalyan Ch, **Ramanjaneya Reddy Udumula** et.al. “PV/WT integrated system using the Gray Wolf Optimization Technique for power quality improvement” *Frontiers in Energy Research (Process and Energy Systems)*, Vol. 10, pp. 957971, 2022. **(SCIE Indexed)**.

Naga Sai Kalyan, Srikanth Goud, Rami Reddy, **Ramanjaneya Reddy Udumula** et.al, “Seagull Optimization Algorithm Based Fractional Order Fuzzy Controller for LFC of Multi Area Diverse Source System With Realistic Constraints” *Frontiers in Energy Research (Smart Grids)*, Vol. 10, pp.921426, 2022. **(SCIE Indexed)**.

Ramanjaneya Reddy Udumula “Single Input LC Series Resonant Converter Based High Brightness Light Emitting Diode Driver with ZVS”, *Journal of Power Technologies*, Vol. 101, no. 1, pp. 54-61, Mar. 2021. **(ESCI and WoS Journal)**

Ramanjaneya Reddy Udumula, Hanumandla Deepika; Bellapu Vijayalakshmi, “Closed Loop Voltage Mode Controlled High Step-Down/Step-Up Positive Output Buck-Boost Converter”, *Journal of Power Technologies*, Vol. 100, no. 3, pp. 255-262, 2020. **(ESCI and WoS Journal)**

Ramanjaneya Reddy Udumula Udumula, Narasimharaju B L, Asif Md, “Voltage Mode Control DCM HSD-CIB PFC Converter for HB-LED Lighting Applications”, *Journal of Power Technologies*, Vol. 98, no. 4, pp.305–313, 2018. **(ESCI and WoS Journal)**

B L Narasimharaju, **Ramanjaneya Reddy Udumula** and Raveendhra Dogga, “Design and Analysis of Voltage Clamped Bidirectional DC-DC Converter for Energy Storage Applications”, *IET Journal of Engineering*, Vol. 2018, no. 7, pp. 367 – 374, July. 2018. **(Scopus, WoS and ESCI Indexed)**.

Ramanjaneya Reddy Udumula and B. L. Narasimharaju, “A Cost-Effective Zero-Voltage Switching Dual-Output LED Driver”, *IEEE Transactions on Power Electronics*, vol. 32, no. 10, pp. 7941-7953, 2017. **(SCI Indexed)**.

Ramanjaneya Reddy Udumula and B. L. Narasimharaju, “Single-stage electrolytic capacitor less non-inverting buck-boost PFC based AC–DC ripple free LED driver”, *IET Power Electronics*, vol. 10, no. 1, pp. 38-46, 2017. **(SCI Indexed)**.

Ramanjaneya Reddy Udumula and Narasimharaju B L “High step-down Dual output Light Emitting diode driver”, *International Journal of Renewable Energy Research*, vol. 7, no. 1, pp. 157-169, 2017. **(Scopus and ESCI Indexed)**.

Ramanjaneya Reddy Udumula and Narasimharaju B L “Improved efficiency coupled inductor-buck AC-DC light emitting diode (LED) driver”, *IEICE Electronics Express*, Vol. 13, no. 16, pp. 1-6, 2016. **(SCIE Indexed)**

BOOK CHAPTERS

S. D. Gangula, T. K. Nizami and **Ramanjaneya Reddy U**, “Real Time Implementation of Laguerre Neural Network based Adaptive Control of DC-DC converter”, *Soft Computing: Theories and Applications*, Springer, 2023. **(Proof Read Submitted)**

Ravi Eswar K.M, Sivaprasad Athikkal, **Ramanjaneya Reddy U**, Narender Reddy Kedika, “Enhanced Predictive Torque Control of Open Winding Permanent Magnet Synchronous Motor Drive with Common Mode Voltage Elimination” *Recent advances in Power Systems*, Springer, Vol. 974, Feb 2023.

Aswini Patakamoori, **Ramanjaneya Reddy U**, Tousif Khan Nizami, Ravi Eswar Kodumur Meesala, "Comparative Analysis of Resonant Converter Topologies for Multiple Load Light Emitting Diode Applications" **Book : Recent Advances in Power Electronics and Drives, Springer**, Vol. 973, Jan 2023.

INTERNATIONAL CONFERENCES

Mehtaj, Busam Gopichand, and **Ramanjaneya Reddy Udumula**, "Three-Leg Asymmetrical Voltage Resonant Converter for Multiple LED Load Applications with Independent Dimming Control" **2023 IEEE IAS Global Conference on Emerging Technologies, Loughborough University, London UK**, May 27-29, 2022. (Accepted for Presentation)

Rahul Kotana, Sundeep Kumar Parisa, Mounika Nagabushanam, Tarkeshwar Mahto and **Ramanjaneya Reddy Udumula**, "Uninterrupted Multi-output DC-AC Power Supply with Independent Output Voltage Regulation" **3rd International Conference for Emerging Technology, Belgaum, India**, May 27-29, 2022.

Ramanjaneya Reddy Udumula and Narasimharaju B. L, "Unity power factor buck-boost LED driver for wide range of input voltage application ", **2015 Annual IEEE India Conference**, pp. 1-6, New Delhi, 2015.

Narasimharaju B. L, G. Bharna, V. B. Koreboina and **Ramanjaneya Reddy Udumula**, "Modeling and analysis of voltage controlled positive output synchronous buck-boost converter", **2015 Annual IEEE India Conference (INDICON)**, pp. 1-5, New Delhi 2015.

B. L. Narasimharaju, V. V. Prahlad, **Ramanjaneya Reddy Udumula** et.al, "Optimized dual active bridge Bi-directional DC-DC converter for UPS application", **Power Electronics, Drives and Energy Systems (PEDES)**, pp. 1-6, Mumbai 2014.

B. L. Narasimharaju, V. V. Prahlad, **Ramanjaneya Reddy Udumula** and Narasimharaju B. L, "Enhanced closed loop voltage control of buck converter for improved performance", **2014 Annual IEEE India Conference (INDICON)**, pp. 1-5, Pune 2014.

PATENTS

Title: Zero Voltage Switching Full-Bridge Converter For Multiple Led Lighting Loads With Reduced Switch Current

Indian Patent Application Number: 202241076718

Authors: **Ramanjaneya Reddy Udumula**, Tousif Khan N, Lokeshgupta Bhamidi and Aswini Patakamoori

Title: A DC to AC Conversion Apparatus

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