

RESEARCH PUBLICATIONS

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Number of Publications in the Last 5 Years : 41

Area of Specialization : Power Electronics and Drives



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Web of Science ResearcherID [®]
AAP-8692-2020

PUBLICATIONS	TOTAL TIMES CITED	H-INDEX
28	109	5 [?]

Publication metrics

PUBLICATIONS IN WEB OF SCIENCE	SUM OF TIMES CITED	H-INDEX	AVERAGE CITATIONS PER ITEM	AVERAGE CITATIONS PER YEAR
16	109	5 [?]	6.8	10.9

Citations are from articles indexed in the Web of Science Core Collection.

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INTERNATIONAL JOURNAL PUBLICATIONS

1. Kumaresan J, and **Govindaraju C** “Development of a Power Management Algorithm for PV/Battery Powered Plug-In Dual Drive Hybrid Electric Vehicle”, **Electric Power Components and Systems (Taylor & Francis Group)**, vol.48, DOI: 10.1080/15325008.2020.1736212, 2020. (SCIE Indexed Journal).
2. Kumaresan J and Govindaraju C “PV-tied three-port DC–DC converter-operated four-wheel-drive hybrid electric vehicle (HEV), **Electrical Engineering (Springer)**, DOI: 10.1007/s00202-020-01030-6, 2020. (SCIE Indexed Journal).
3. Venkateswaran M., **Govindaraju C.**, Santhosh T.K. “**Integrated Predictive Control and Fault Diagnosis Algorithm for single inductor-based DC-DC Converters**”, Circuit World (Emerald Publishing Limited), doi.org/10.1108/CW-11-2019-0166, 2020. (SCIE Indexed Journal).
4. Mahendran G , and **Govindaraju C** “**Flower pollination algorithm for distribution system phase balancing considering variable demand**”, Microprocessor and Microsystems (Elsevier), vol.74, doi.org/10.1016/j.micpro.2020.103008,2020. (SCIE Indexed Journal).
5. A. Franklin Alex Joseph and **C.Govindaraju** ‘Channel selection using glow swarm optimization and its application in line of sight secure communication,’ **Cluster Computing, Springer Journal**, DOI 10.1007/s10586-017-1177-9, Vol.22, pp10801-10808, 2019. (SCIE Indexed Journal)
6. Santhosh T K, Natarajan, K and **Govindaraju C**, ‘Synthesis and Implementation of a Multi-Port DC/DC Converter for Hybrid Electric Vehicles’, **Journal of Power Electronics**, vol.15, no.5, pp. 1178-1189, & 2015. (SCIE Indexed Journal)
7. Santhosh T K and **Govindaraju C**, ‘Dual Input Dual Output Power Converter with One-step-ahead Control for Hybrid Electric Vehicle Applications’, **IET Electrical Systems in Transportation**, vol.7, no.3, pp. 190-200, 2017. (SCIE Indexed Journal)
8. Haripriya D, **Govindaraju C** and Sumathi M “A novel input data transition aware dynamic voltage scaling based low power MAC architecture for DSP applications ”, Design Automation for Embedded Systems (Springer Journal), Vol.21, No.3, pp 265-281, 2016. (SCIE Indexed Journal)

9. Santhosh T K and **Govindaraju C**, 'Development of Predictive Current Controller for Multi-Port DC/DC Converter', **International Journal of Power Electronics and Drive Systems**, vol.6, no.4, pp. 683-692, 2015. (**Scopus Indexed Journal**)
10. Santhosh T K and **Govindaraju C**, 'Modeling and Simulation of Predictive Voltage Control for a Multi-Port DC/DC Converter', **Middle East Journal of Scientific Research**, vol.23, no.12, pp. 2913-2919, 2015. (**Scopus Indexed Journal**)
11. Santhosh T K and **Govindaraju C**, 'Inductor Current Based Fault Diagnostic System for Four Port DC/DC Converter', **International Journal of Electrical Electronics and Computer Science Engineering**, vol.2, no.5, pp. 43-48, 2015.
12. Santhosh T K and **Govindaraju C**, 'Stability Analysis and Control Design of a Four Port DC/DC Converter', **Journal of Electrical Engineering and Power Electronics**, vol.1, no.1, pp. 8-18, 2015.
13. Haripriya D, Sumathi M and **Govindaraju C**, 'Low Power Design for Embedded Processors', **International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering**, vol.4, no.4, pp. 1031-1037, 2015.
14. Haripriya D, Sumathi M and **Govindaraju C** 'Analysis of Power Management in Portable Embedded DSP Applications', **APRN Journal of Engineering and Applied Sciences**, vol.10, no.7, pp. 3185-3192, 2015. (**Scopus Indexed Journal**)
15. Priyatharshini C , Kathiravan P and **Govindaraju C** 'Power Management by using Multiport DC-DC Converter For Renewable Energy', **International Journal of Research in Engineering and Technology**, vol.4, no.4, pp. 823-832, 2015. (**Scopus Indexed Journal**)
16. Mohamed Asiq, T S and **Govindaraju, C** "Design of Two Inductor Boost Converter for Photovoltaic Applications", **Singaporean Journal of Scientific Research**, Vol. 8, No. 2, pp. 12-19, 2016.
17. Thirumalaiselvi, A and **Govindaraju, C** "A Single Stage MOSFET Based Transformerless Inverter For Nonisolated Grid Tied PV Inverter Applications", **Singaporean Journal of Scientific Research**, Vol. 8, No. 2, pp. 115-120, 2016.
18. Haripriya D, **Govindaraju C** and Sumathi M "Time and Power Reduction of Embedded DSP Systems using Register-program Execution", **International Journal of Control Theory and Applications**, vol.9, no.2, pp. 1155-1168, 2016.

19. K.Natarajan & **C.Govindaraju** 'Review of Multilevel Inverter and Various Suitable PWM Techniques,' **International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering**, vol.5, no.11, pp. 8769-8775., 2016.
20. Kumaresan, J and **Govindaraju, C** "Bidirectional Charger for Plugged In Hybrid Electric Vehicle", **International Journal of Innovative Research in Engineering Science and Technology**, Vol. 4, No. 3, pp. 81-86, 2016.
21. K.Natarajan and **C.Govindaraju** 'Isolated Five Level SEPIC Fuel Cell Converter for Residential Application,' **International Journal of Printing, Packaging and Allied Sciences**, vol.4, no.3, pp. 2046-2062. ISSN: 2320-4387, 2016.
22. K.Natarajan and **C.Govindaraju** 'Analysis of Reduced Switch Seven level Inverter for Fuel Cell System,' **Middle-East Journal of Scientific Research**, vol.24, no.12, pp. 3820-3825, ISSN: 1990-923, 2016.
23. K.Natarajan and **C.Govindaraju** 'Closed loop control analysis of modified SEPIC converter,' **International Journal of Engineering Technology and Computer Research**, vol.4, no.6, pp. 1-8, ISSN: 2348-2117, 2016.
24. K.Natarajan and **C.Govindaraju** 'Design and Analysis of Fuel Cell fed SEPIC Converter,' **International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering**, vol.5, no.12, pp. 9051-9056, ISSN: 2320-3765, 2016.
25. S.Subasri and **C.Govindaraju** 'Design and Analysis of LUO Converter based LED Driver,' **International Journal of Electrical and Electronics Research**, vol.5, no.2, pp. 20-26, 2017.
26. M.Sathya and **C.Govindaraju** 'Solar Water Pumping System Employing ZETA Converter and BLDC Motor,' **International Journal of Electrical and Electronics Research**, vol.5, no.2, pp. 27-34, 2017.
27. Sowmiya.P and **C.Govindaraju** 'Design and Analysis of Composite DC-DC Converter for Electric Vehicle,' **IOSR Journal of Electrical and Electronics Engineering**, vol.12, no.6, pp. 01-10, 2017.
28. Sowmiya.P and **C.Govindaraju** 'Closed Loop Control of Composite DC-DC Converter for Electric Vehicle,' **IOSR Journal of Electrical and Electronics Engineering**, vol.12, no.6, pp. 59-68, 2017.
29. Kathiravan P, **Govindaraju C** and Suresh R M 'Centralized hybrid renewable power generation using DISO-buck boost converter for Micro Grid's', **International Journal of Pure and Applied Mathematics**, vol.119, no.7, pp. 1849-1856, 2018.

30. K.Natarajan and **C.Govindaraju** ‘Analysis of a Nine-level Inverter Topology with Hybrid Input Sources,’ **Journal of Electrical Engineering**, vol.17, no.3, pp. 139-146, ISSN: 1582-4594, 2017.
31. K.Natarajan and **C.Govindaraju** ‘Analysis of Five Switch Seven-Level Inverter with Modified SEPIC Converter for Fuel Cell Energy Conversion System,’ **Journal of Electrical Engineering**, vol.17, no.3, pp. 147-156, ISSN: 1582-4594, 2017.
32. C.Nivetha and **C.Govindaraju** ‘Design of Grid tied bi-directional inverter for Battery energy storage system,’ **International Journal of Electrical Engineering & Technology**, vol.10, no.2, pp. 1-12, ISSN: 0976-6545, 2019.
33. C.Nivetha and **C.Govindaraju** ‘Design and Analysis of Quasi Cascaded Multilevel Inverter,’ **International Journal of Electrical Engineering & Technology**, vol.10, no.2, pp. 13-23, ISSN: 0976-6545, 2019.
34. Kathiravan P, and **Govindaraju C** ‘Design and Evaluation of Ultra Gain Isolated DC-DC Converter for Photovoltaic System”, **International Journal of Engineering and Advanced Technology**, vol.8, no.5, pp. 2646-2651, 2019. (**Scopus Indexed Journal**)
35. Kathiravan P, and **Govindaraju C** “A Grid Connected Photovoltaic- Fuel Cell and Super Capacitor Hybrid Energy System”, **International Journal of Recent Technology and Engineering**, vol.7, no.5S4, pp. 843-849, 2019. (**Scopus Indexed Journal**)
36. Kathiravan P, and **Govindaraju C** “Fuzzy Model Predictive Control for Grid Tied Inverter with Multiport Renewable Energy Systems”, **International Journal of Innovative Technology and Exploring Engineering**, vol.8, no.11, pp. 3044-3049, 2019. (**Scopus Indexed Journal**)
37. Lakshmiprabha K.E , and **Govindaraju C** “Hydroponic-based smart irrigation system using Internet of Things”, **International Journal of Communication Systems** (John Wiley), DOI:10.1002/dac.4071 , 2019. (**SCIE Indexed Journal**)
38. **P.K Banushya**, and **Govindaraju C** “Direct Power Conversion Battery Charger for Low Electric Vehicles”, **International Journal of Innovative Technology and Exploring Engineering**, vol.9, no.6, pp. 811-816, 2020.

International Conferences

1. Mohamed Asiq, T S and **Govindaraju, C** “Implementation of Two Inductor Boost Converter for Solar PV Systems”, International Conference on Electrical, Electronics and Communication, Alagappa Chettiar College of Engineering and Technology, Karaikudi, pp. 343-348, 2016.
2. Thirumalaiselvi, A and **Govindaraju, C** “Design of Phase Leg Splitted Non-Isolated Transformerless Inverter”, Second International Conference on Electrical, Electronics and Computer Engineering, Vivekanandha College of Engineering for Women, Tiruchengode, pp. 52-56, 2016.
3. T. K. Santhosh, N.Balaji and **C. Govindaraju**, “Development of Quasi Multiple Input Converter for Dynamic Stability of Renewable Systems", National Conference on Recent Trends in Power Engineering, , Department of Electrical Engineering, Indian Institute of Technology (IIT), Madras December 2015.