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Research Papers Published in Journals

1. S. Moorthi and D. Sairam, "Real time embedded system development for missile angular position acquisition through image processing", CSI Transactions on Information and Communication Technology, Springer, Vol. 08, No. 2, June 2020.
2. Ganeshmoorthy J., Sumit Manual, S. Moorthi, P. Raja, "Performance analysis of solar PV based DC optimizer distributed system with simplified MPPT method", SN applied Sciences, Springer, January 2020.
3. R. Ramya and S. Moorthi, "Frequency response masking based FIR filter using approximate multiplier for bio-medical applications", Sadhana - Academy Proceedings in Engineering Sciences, Springer, Vol. 44, No.11, November 2019.
4. S. Aditya and S. Moorthi, "A wide tunable fast settling 4-bit Digitally Controlled Oscillator for reconfigurable multi-band RF Application", Microelectronics Journal, Elsevier, Vol. 92, October 2019.
5. A. Dheepanchakkravarthy, M. R. Jawahar, K. Venkatraman, M. P. Selvan and S. Moorthi, "Performance Evaluation of FPGA Based Predictive Current Controller for Four-leg DSTATCOM in Electric Distribution System", IET Generation, Transmission and Distribution, Vol.13, No.19, October 2019.
6. S. Aditya and S. Moorthi, "Digitally tunable active inductor for RF-DCO applications", International Journal of Electronics Letters, Taylor and Francis June 2019.
7. R. Ramya and S. Moorthi, "Performance Evaluation of Wordlength Reduction Based Area and Power Efficient Approximate Multiplier for Mobile Multimedia Applications", Circuits, Systems Springer, 38, 5699–5716, May 2019

8. A. Dheepanchakkravarthy, M. P. Selvan and S. Moorthi, "Alleviation of Power Quality Issues Caused by Electric Arc Furnace Load in Power Distribution System using 3-Phase Four-Leg DSTATCOM", Journal of The Institution of Engineers (India) - Series B, Springer, Vol. 100, No.1, pp. 09-22, February 2019.
9. R. Ramya and S. Moorthi, "Modeling and Simulation of Frequency Response Masking FIR Filter Bank using Approximate Multiplier for Hearing Aid Application", Advances in System Science and Applications, an International Journal, Vol. 18, No.4, pp. 74 – 91, December 2018.
10. Nikhil K.A., P. Bharat Chandra, M.R. Jawahar, S. Moorthi, M.P. Selvan and N. Kumaresan, "FPGA-based closed-loop monitoring and control of doubly fed induction generator with single inverter and battery for wind energy conversion", Australian Journal of Electrical and Electronics Engineering, Taylor and Francis, Vol. 15, No. 4, pp. 175-183, December 2018
11. K.Venkatraman, M.P.Selvan and S. Moorthi, "Performance analysis of FPGA controlled four-leg DSTATCOM for multifarious load compensation in electric distribution system", Engineering Science and Technology, an International Journal, Elsevier, Vol. 21, No. 4, pp. 692 - 703, Aug. 2018
12. R.Ramya, S. Moorthi, "Review of recent trends in Coarse Grain Reconfigurable Architectures for signal processing applications", Advances in System Science and Applications, an International Journal, Vol. 18, No.1, pp. 41 – 58, May 2018.
13. Venkatraman, K., Selvan, M.P., Moorthi, S., Raja, P. and Deepa Kurup, "Predictive Current Control of DSTATCOM for VAR Compensation of Grid Connected Wind Farms", Journal of Renewable and Sustainable Energy, ISSN: 1941-7012, March 2017.
14. Venkatraman, K., Moorthi, S., Selvan, M.P. and Raja, P., "A Comprehensive Embedded Solution for Data Acquisition and Communication using FPGA", Journal of Applied Research and Technology, Elsevier, Vol. 15, No. 1, pp.45-53, SCImago Indexed ISSN: 1665-6423, February 2017.
15. Venkatraman, K., Moorthi, S. and Selvan, M.P., "Modelling and Control of Transformer-less Universal Power Quality Conditioner (TUnPQC): An

Effective Solution for Power Quality Enhancement in Distribution System”, Journal of Control, Automation and Electrical Systems, Springer, In Press, SCImago Indexed ISSN: 2195-3899, 2016.

16. Venkatraman, K., Dastagiri Reddy, B., Selvan, M.P., Moorthi, S., Kumaresan, N. and Ammasaigounden, N., “Online Condition Monitoring and Power Management System for Standalone Micro-grid using FPGAs”, IET Generation, Transmission and Distribution, In Press, SCI Indexed ISSN: 1751-8687, 2016
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18. Venkatraman, K., Moorthi, S., Selvan, M.P., Raja, P. and Deepa Kurup, “Performance Evaluation of FPGA-Controlled DSTATCOM for Load Compensation”, Arabian Journal of Science and Engineering, Vol. 41, No. 9, pp.3355-3367, SCI Indexed ISSN: 2191-4281, September 2016.
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20. Dastagiri Reddy, B.; Selvan, M.P.; Moorthi, S., “Design, Operation and Control of S3 Inverter for Single-Phase Micro-Grid Applications”, IEEE Transactions on Industrial Electronics, Vol. 62, No. 9, ISSN: 5569 – 5577, , September 2015
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