

Details of Subject Expert 1

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List of Publications:

1. S. Aditya and S. Moorthi, "A wide tunable fast settling 4-bit Digitally Controlled Oscillator for reconfigurable multi-band RF applications", Microelectronics Journal, Elsevier (2019)
Scopus
Impact Factor – 1.426
2. 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 (2019)
Scopus
Impact Factor – 0.849
3. 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 (2019)
Scopus
Impact Factor – 3.432
4. S. Aditya and S. Moorthi, "Digitally tunable active inductor for RF-DCO applications", International Journal of Electronics Letters, Taylor and Francis (2019)
Scopus
Impact Factor – 0.45
5. R. Ramya and S. Moorthi, "Performance Evaluation of Wordlength Reduction Based Area and Power Efficient Approximate Multiplier for Mobile Multimedia Applications", Circuits, Systems, and Signal Processing, Springer (2019)
Scopus
Impact Factor – 1.670

6. 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)

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Impact Factor – 0.52

7. 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)

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8. 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)

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Impact Factor – 0.33

9. A. Dheepanchakkravarthy, 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)

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Impact Factor – 3.219

10. 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)

Scopus

Impact Factor – 0.15

11. A. Dheepanchakkravarthy, K. Venkatraman, M. P. Selvan, S. Moorthi and M. Venkata Kirthiga, "Capability evaluation of four-leg DSTATCOM for compensating multifarious loads", Australian Journal of Electrical and Electronics Engineering, Pages 229-243 (2017)

Scopus

Impact Factor – 0.33

12. 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, March (2017)

Scopus

Impact Factor – 1.611

13. 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, February (2017)

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14. 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, (2016)

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15. 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, (2016)

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16. Venkatraman, K., Selvan, M.P. and Moorthi, S., "Predictive Current Control of Distribution Static Compensator for Load Compensation in Distribution System", IET Generation, Transmission and Distribution, Vol.10, No. 10, October (2016)

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17. 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, September (2016)

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18. 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, September (2015)

Scopus

Impact Factor – 7.515

19. Dastagiri Reddy, B.; Anish, N.K.; Selvan, M.P.; Moorthi, S., "Embedded Control of n-level DC-DC-AC Inverter", in IEEE Transactions on Power Electronics, Vol. 30, No. 7, July (2015)

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20. Dastagiri Reddy, B.; Selvan, M.P.; Moorthi, S., "A Simplified Embedded Control Scheme for Two-Stage Multistring Off-Grid Inverter", IET Power Electronics, Vol. 7, No. 12, December (2014)

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