

Publications

Publications in the peer reviewed SCI/SCIE indexed International journals

- **R.Balasubramanian**, R.Sankaran and S.Palani, “Simulation and Performance Evaluation of Shunt Hybrid Power Filter using Fuzzy Logic Based Non Linear Control for Power Quality Improvement” *Sādhanā*, September 2017, Volume 42, Issue 9, pp 1443–1452.
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- K. Parkavi Kathirvelu, **R. Balasubramanian**, R. Sankaran, “Simulation and Performance Evaluation of Shunt Hybrid Power Compensator Using a Control Method Based on Lyapunov Function for Power Quality Improvement” *Journal of Control Engineering and Applied Informatics*, Vol.20, No.3 pp. 69-78, 2018. IF: 0.698.
- **R. Balasubramanian**, K. Parkavikathirvelu, R. Sankaran and Rengarajan Amirtharajan “Design, Simulation and Hardware Implementation of Shunt Hybrid Compensator Using Synchronous Rotating Reference Frame (SRRF)-Based Control Technique” *MDPI-Electronics* **2019**, 8(1), 42. IF: 2.110
<https://doi.org/10.3390/electronics8010042>
- Sundararaman Rajagopalan, Siva Poori, Mukund Narasimhan, Sivaraman Rethinam, Chandrasekar Vallipalayam Kuppusamy, **Ramalingam Balasubramanian**, Vijaya Moorthi Paramasivam Annamalai, Amirtharajan Rengarajan, “[Chua's diode and strange attractor: a three-layer hardware–software co-design for medical image confidentiality](#)” *IET Image Processing*, 2020, Vol.14, No.7, pp.1354-1365. IF: 2.004

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- C.Kalavalli, K.Parkavi kathirvelu and **R.Balasubramanian**, 2013. Single Phase Bidirectional PWM Converter for Microgrid System. International Journal of Engineering and Technology, vol5 no3, 2436-2441.
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- E.S.Raghav chakravarthy, A.Bhargavi, K.Parkavi kathirvelu and **R.Balasubramanian**, 2014. Analysis of Simulation of Isolated Wind Diesel Hybrid Power System. ARPJ Journal of Engineering and Applied Sciences, vol9, No-7: 1056-1063
- L. Pradeep Raja, **R. Balasubramanian**, K. Parkavi Kathirvelu and Rengarajan Amirtharajan, 2014. SVPWM Based Stator Oriented Non-linear Control of Induction Motor Drives. Information Technology Journal, vol 13, 16:2574-2580
- A.Arivarasu, K. Muthukumar and **R.Balasubramanian**, 2014. Closed Loop Non Linear Control of Shunt Hybrid Power Filter for Harmonics Mitigation in Industrial Distribution System. International Journal of Power Electronics and Drive System (IJPEDS), vol. 5, No. 2, October 2014, pp. 185-194.
- S.Shanthini, **R.Balasubramanian**, K.Parkavi kathivelu and Rengarajan Amirthatrajan, 2015. Multi Fed Power Electronic Transformer for Modern Power Distribution System, International journal of Applied Engineering Research, vol 10, no-9, 24113-24124
- S.Santhosh kumar, K.Parkavi kathirvelu, **R.Balasubramanian** and Rengarajan Amirthatrajan, 2015. Design of a PV based zero voltage switching Converter Fed Dc Microgrid. International journal of Applied Engineering Research, vol 10, no-9, 22799-22812
- R. Deenadayalan, K.Parkavi kathirvelu, **R.Balasubramanian** and Rengarajan Amirthatrajan, 2015. A Distributed Control Strategy for

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- **R Balasubramanian**, S Palani, 2016. Simulation and Performance Evaluation of Shunt Hybrid Power Filter for Power Quality Improvement Using PQ Theory. International Journal of Electrical and Computer Engineering (IJECE). Vol. 6, No. 6, December 2016, pp. 2603-2609.
DOI: 10.11591/ijece.v6i6.12011
 - **R. Balasubramanian**, R. Sankaran and S. Palani, 2017 “Performance of Shunt Hybrid Compensator For Power Quality Improvement Using Simple Control Strategy. ARPN Journal of Engineering and Applied Sciences, Vol. 12, no. 3, February 2017, pp 761- 769.
 - Ahlawat M.S, **R.Balasubramanian** and K.Parkavi kathivelu, 2017 “Harmonic reduction using hybrid power filter for three phase four wire system” ARPN Journal of Engineering and Applied Sciences, vol. 12, no. 21, November 2017, pp 6159- 6163.
 - Sharon Paul, K.Parkavi kathivelu and **R.Balasubramanian**, 2018 “Design and implementation of full bridge modular DC-DC converter for solar conversion systems” ARPN Journal of Engineering and Applied Sciences , vol. 13, no. 4, February 2018, pp. 1243 - 1250.

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- **R. Balasubramanian**, Parkavi Kathirvelu, Shashwat and S. Palani, 2014. Synchronous Rotating Reference Frame Based Control Technique for Three-phase Hybrid Active Power Filter: A Simulink Approach. Journal of Applied Sciences, 14: 1557-1563.
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- K. Parkavi Kathirvelu and **R. Balasubramanian**, 2014. Design and Implementation of PS-ZVS Full Bridge Converter. Journal of Applied Sciences, 14: 1588-1593.
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- K. Arthishri, **R. Balasubramanian**, Parkavi Kathirvelu, Sishaj P. Simon and Rengarajan Amirtharajan, 2014. Maximum Power Point Tracking of Photovoltaic Generation System using Artificial Neural Network with Improved Tracking Factor. *Journal of Applied Sciences*, 14:1858-1864.
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 - **R. Balasubramanian**, K. Parkavi Karthirvelu, N. Divya, Rengarajan Amirtharajan and S. Palani, 2014. Fuzzy Controller Based Switched Boost Converter with Reduced Harmonics for Micro Grid Application. *Journal of Applied Sciences*, 14: 1928-1935.
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 - **R. Balasubramanian**, K. Parkavi Kathirvelu, K. Sathishkumar, Rengarajan Amirtharajan and S. Palani, 2014. Fuzzy Based Single Phase Double-tuned Current source Inverter with Reduced Harmonics for Microgrid. *Journal of Applied Sciences*, 14:2098-2108.
 URL: <http://scialert.net/abstract/?doi=jas.2014.2098.2108>
 - K. Parkavi Kathirvelu, **R. Balasubramanian** and Rengarajan Amirtharajan. 2015. Authenticated Smart Powercomm: A Review. *Information Technology Journal*, 14(1), pp 10-15.

International Conference

- K. Parkavi Kathirvelu, **R. Balasubramanian**, C. Kallavalli “ Solar fed single phase bidirectional converter for micro grid system” International Conference on Electrical sciences (ICES2013), Aug 2013.
- S.M. GiriRajkumar, **R. Balasubramanian**, N. Anantharaman, V. Dharmalingam and K.M. Meera Sheriffa Begum, "Design of Optimal Controller for a FOPTD System Based on Simulated Annealing" (SA), Modeling and Simulation, ISBN: 81-8424-219-0, Vol-III, pp. 1128-1133, Aug 2007, International book publication.

National Conference

- S.M.GiriRajkumar, [R.Balasubramaniam](#), N.Anantharaman and V.Dharmalingam, “Genetic algorithm based design for improving controller performance in a higher order system”, National conference on “Soft computing techniques in process control and instrumentation” (SCTPCI-07), Feb-15-17, 2007 at St.Peter’s Engineering College, Avadi, Chennai.