

LIST OF PUBLICATIONS

1. **Sitharthan R**, Yuvaraj S, Sanjeevikumar padmanabhan, Jens Bo Holm-Nielsen, Sujith M, Rajesh M, Prabakaran N, and vengatesan K, 2020, Piezoelectric Energy Harvester Converting Wind Aerodynamic Energy into Electrical Energy for Microelectronic Application, IET Renewable Power Generation- Accepted for Publication. (IF: 3.894)
2. **Sitharthan R**, Sujatha Krishnamoorthy, Padmanaban Sanjeevikumar, Jens Bo Holm-Nielsen, Raja Singh R, Rajesh M, 2020, Torque ripple minimization of PMSM using an adaptive Elman neural network-controlled feedback linearization-based direct torque control strategy, International Transactions on Electrical Energy Systems, Wiley. Accepted for publication DOI: 10.1002/2050-7038.12685. (IF: 1.692)
3. Sivaranjani, R., Sundar, D.S., Sridarshini, T., **Sitharthan, R.**, Karthikeyan, M., Raja, A.S. and Carrasco, M.F., 2020. Photonic crystal based all-optical half adder: a brief analysis. Laser Physics, 30(11), p.116205. (IF:1.333)
4. Nataraj, S.K., Al-Turjman, F., Adom, A.H., **Sitharthan, R.**, Rajesh, M. and Kumar, R., 2020. Intelligent Robotic Chair with Thought Control and Communication Aid Using Higher Order Spectra Band Features. IEEE Sensors Journal. DOI: 10.1109/JSEN.2020.3020971. (IF: 3.076)
5. Natarajan, B., Obaidat, M.S., Sadoun, B., Manoharan, R., **Sitharthan Ramachandran** and Velusamy, N., New Clustering-Based Semantic Service Selection and User Preferential Model. IEEE Systems, DOI: 10.1109/JSYST.2020.3025407. (IF: 3.987)
6. Rukmani, D.K., Thangaraj, Y., Subramaniam, U., **Sitharthan Ramachandran**, Madurai Elavarasan, R., Das, N., Baringo, L. and Imran Abdul Rasheed, M., 2020. A new approach to optimal location and sizing of DSTATCOM in radial distribution networks using bio-inspired cuckoo search algorithm. Energies, 13(18), p.4615. (IF: 2.702)
7. **Sitharthan R**, Soundrabalan CK, 2020. Design and Modeling of Hybrid DC/AC Microgrid with Manifold Renewable Energy Sources, IEEE Canadian Journal of Electrical and Computer Engineering, Accepted for publication. DOI: 10.1109/CJECE.2020.2989222 (IF: 1.091).
8. Gomathy V, Janarthanan K, Fadi Al-Turjman, **Sitharthan R**, rajesh M, Vengatesan K, Priya Reshma T, 2020, Investigating the Spread of Coronavirus Disease by relating Air Pollution using Edge AI, ACM Transactions on Internet Technology- Accepted for publication. (IF: 1.598).
9. Karthikeyan, M., **Sitharthan, R.**, Ali, T. and Roy, B., 2020. Compact multiband CPW fed monopole antenna with square ring and T-shaped strips. Microwave and Optical Technology

Letters, 62(2), pp.926-932.

10. Sundar, D. Shanmuga, T. Sridarshini, **R. Sitharthan**, Madurakavi Karthikeyan, A. Sivanantha Raja, and Marcos Flores Carrasco. "Performance investigation of 16/32-channel DWDM PON and long-reach PON systems using an ASE noise source." In *Advances in Optoelectronic Technology and Industry Development: Proceedings of the 12th International Symposium on Photonics and Optoelectronics (SOPO 2019)*, August 17-19, 2019, Xi'an, China, p. 93. CRC Press, 2019.
11. D.Shanmuga Sundar, Arun Thirumurugan, Muneeswaran Muniyandi, **R. Sitharthan**, Karthikeyan Madurakavi, A.Sivanantha Raja, and Marcos Flores Carrasco (2019). *Conductive oxides role in Flexible Electronic Device Applications, Materials for electronic devices and sustainable energy*, Springer Nature (**SCI**), (Accepted for publications).
12. **Sitharthan R**, Shanmuga Sundar D, Rajesh M, Madurakavi Karthikeyan, Jacob Raglend I, Belwin Edward J, Raja Singh R, and Kumar R, "Assessing Nitrogen dioxide (NO₂) Impact on Health Pre-and Post- COVID-19 Pandemic using IoT in India" *International Journal of Pervasive Computing and Communications*, Emerald Publication-Accepted for publication, DOI: 10.1108/IJPCC-08-2020-0115
13. Babu, R.G., Obaidat, M.S., Amudha, V., Manoharan, R. and **Sitharthan, R.**, 2020. Comparative analysis of distributive linear and non-linear optimised spectrum sensing clustering techniques in cognitive radio network systems. *IET Networks*. DOI: 10.1049/iet-net.2020.0122
14. Janeera, D.A., Amudhavalli, P., Sherubha, P., Sasirekha, S.P., Raj, P.A.C. and **Sitharthan, R.**, 2020, September. Visualization and Classification of Diseases using Deep Learning Based Convolution Neural Network. In *IOP Conference Series: Materials Science and Engineering* (Vol. 937, No. 1, p. 012053). IOP Publishing.
15. Rani, S.S., Janet, J., Ramya, K.C., **Sitharthan, R.**, Kesavan, T. and Shrivastava, S., 2020, September. UAV based Mapping System for Precision Agriculture. In *IOP Conference Series: Materials Science and Engineering* (Vol. 937, No. 1, p. 012035). IOP Publishing.
16. Reshma, R., Ramachandraiah, U., Devabalaji, K.R. and **Sitharthan, R.**, 2020, September. Liquid metal level measurement techniques. In *IOP Conference Series: Materials Science and Engineering* (Vol. 937, No. 1, p. 012027). IOP Publishing.
17. Kesavan, T., Gnanamalar, S.S., Sivaranjani, S., Gomathy, V., Radhakrishnan, G. and **Sitharthan, R.**, 2020, September. SVM Based Reduction of Input Current Harmonics in Three Phase Rectifier. In *IOP Conference Series: Materials Science and Engineering* (Vol. 937, No. 1, p. 012058). IOP Publishing.
18. Shrivastava, S., Sahu, J. and **Sitharthan, R.**, 2020, September. Noise Resilient distributed Voltage and Frequency Control for Low Voltage Islanded Microgrid. In *IOP Conference Series: Materials Science and Engineering* (Vol. 937, No. 1, p. 012036). IOP Publishing.

19. Shivam, S., Singh, R., Singh, R.R. and **Sitharthan, R.**, 2020, September. A Review on Power Electronics and Drives in Electric Propulsion System. In IOP Conference Series: Materials Science and Engineering (Vol. 937, No. 1, p. 012050). IOP Publishing.
20. **Sitharthan, R** (2019). Analysis on Smart Material Suitable for Autogenous Microelectronic Application- Materials Research Express (**SCI**)- 6(10), p.105709.
21. **Sitharthan, R** (2019). Adaptive hybrid intelligent MPPT controller to approximate effectual wind speed and optimal rotor speed of variable speed wind turbine- ISA Transactions (**SCI**) -DOI: 10.1016/j.isatra.2019.05.029
22. **Sitharthan, R** (2019). An improved RBFNN control strategy based MPPT controller for wind power generation system- Transactions of the Institute of Measurement and Control (**SCI**) - DOI: 10.1177/0142331218823858.
23. **Sitharthan, R** (2019). Automated Power Management Strategy for Wind Power Generation System using Pitch Angle Controller, Measurement and Control (**SCI-E**) - DOI: 10.1177/0020294019827330.
24. V. Gomathy, Sheeba Rani, Sujatha K. **Sitharthan, R** (2019). An intergrated algorithm for detecting classifying the faults in power system. Journal of Electrical Engineering (**SCOPUS**),. Vol. 55. pp. 469-476.
25. D.Shanmuga sundar, C.Umamaheswari, T.Sridarshini, M.Karthikeyan, **R. Sitharthan**, A.Sivanantha Raja, and Marcos Flores C, (2019), "Compact Four Port Circulator based on 2D Photonic Crystals with 90° Rotation of Light Wave for Photonic Integrated Circuits Applications", Laser Physics, IOP Publishing, (**SCI**) Vol. 29, No. 9, pp. 066201.
26. **Sitharthan, R.**, Sundarabalan, C.K., Devabalaji, K.R., Nataraj, S.K. and Karthikeyan, M., 2018. Improved fault ride through capability of DFIG-wind turbines using customized dynamic voltage restorer. Sustainable Cities and Society (**SCI**), 39, pp.114-125.
27. **Sitharthan, R.**, Swaminathan, J.N. and Parthasarathy, T., 2018, March. Exploration of Wind Energy in India: A Short Review. In 2018 National Power Engineering Conference (NPEC) (pp. 1-5). IEEE.
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29. **Sitharthan, R.**, Devabalaji, K.R. and Jeas, A., 2017. An Levenberg–Marquardt trained feed-forward back-propagation based intelligent pitch angle controller for wind generation system. Renewable Energy Focus (**SCOPUS**), 22, pp.24-32.
30. **Sitharthan, R.**, Geethanjali, M. and Pandey, T.K.S., 2016. Adaptive protection scheme for smart microgrid with electronically coupled distributed generations. Alexandria Engineering Journal (**SCI**), 55(3), pp.2539-2550.

31. **Sitharthan, R.** and Geethanjali, M., 2015. Application of the superconducting fault current limiter strategy to improve the fault ride-through capability of a doubly-fed induction generator-based wind energy conversion system. *Simulation (SCI)*, 91(12), pp.1081-1087.