Publications of Dr.A. Immanuel Selvakumar

- 1. Meenal, R., **Immanuel Selvakumar, A.**, Michael, P.A., Rajasekaran, E., Sensitivity analysis based artificial neural network approach for global solar radiation prediction in India, Indonesian Journal of Electrical Engineering and Computer Science, 2020, 20(1), pp. 31-38
- 2. Satheesh Kumar, S., **Immanuel Selvakumar, A.** Maximum power point tracking and power flow management of hybrid renewable energy system with partial shading capability: A hybrid technique, Transactions of the Institute of Measurement and Control, 2020, 42(12), pp. 2276-2296
- 3. Ajayan, S., **Immanuel Selvakumar, A.**, Implementation of firefly algorithm in optimal sizing of proton exchange membrane fuel cell-battery hybrid locomotive. International Journal of Renewable Energy Research, 2020, 10(2), pp. 614-624
- 4. Priya, S.D., **Immanuel Selvakumar, A.**, Nesaraj, A.S., Overview on ceramic and nanostructured materials for solid oxide fuel cells (Sofcs) working at different temperatures, Journal of Electrochemical Science and Technology, 2020, 11(2), pp. 99-116
- 5. Kumar, S.S., **Immanuel Selvakumar, A.**, Hethu Avinash, D.Fault detection techniques in solar photovoltaic modules by using KNN and isolation forest algorithms, Journal of Advanced Research in Dynamical and Control Systems, 2020, 12(4 Special Issue), pp. 153-162
- 6. Priya, S.D., Nesaraj, A.S., **Immanuel Selvakumar, A.**. Facile soft chemical synthesis and physico-chemical characterisation of ceria based novel ceramic nanocomposite electrolyte for LTSOFC application, Materials Research Innovations, 2020
- 7. Meenal, R., **Immanuel Selvakumar**, **A.**, Rajasekaran, E., Review on mathematical models for the prediction of solar radiation, Indonesian Journal of Electrical Engineering and Computer Science, 2019, 15(1), pp. 54-59
- 8. Meenal, R., **Immanuel Selvakumar**, **A.**, Assessment of Solar Energy Potential of Smart Cities of Tamil Nadu Using Machine Learning with Big Data, Advances in Intelligent Systems and Computing, 2019, 750, pp. 27-36
- 9. Gilbert, E.P.K., Baskaran, K., Rajsingh, E.B., Lydia, M., **Immanuel Selvakumar**, **A**. Trust aware nature inspired optimised routing in clustered wireless sensor networks, International Journal of Bio-Inspired Computation, 2019, 14(2), pp. 103-113
- 10. Meenal, R., **Immanuel Selvakumar, A.**, Berclin Jeyaprabha, S., Rajasekaran, E., Solar Mapping of India using Support Vector Machine, Journal of Physics: Conference Series, 2018, 1142(1), 012010

- 11. Chandran, B.P., **Immanuel Selvakumar, A.**, Mathew, F.M., Integrating multilevel converters application on renewable energy sources A survey, Journal of Renewable and Sustainable Energy, 2018, 10(6), 065502
- 12. Jeba, P., **Immanuel Selvakumar, A.** FOPID based MPPT for photovoltaic system, Energy Sources, Part A: Recovery, Utilization and Environmental effects, 2018, 40(13), pp. 1591-1603
- 13. Meenal, R., **Immanuel Selvakumar, A.**, Brighta, K., Christy Jeba Joice, S., Richerd, C.P. Solar radiation resource assessment using WEKA, Proceedings of the 2nd International Conference on Inventive Systems and Control, ICISC 2018, 2018, pp. 1038-1042
- 14. Meenal, R., **Immanuel Selvakumar**, A., Assessment of SVM, empirical and ANN based solar radiation prediction models with most influencing input parameters, Renewable Energy, 2018, 121, pp. 324-343
- 15. Meenal, R., **Immanuel Selvakumar, A.**, Review on artificial neural network based solar radiation prediction, Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES 2017, 2018, 2018-January, pp. 302-305
- 16. Lydia, M., Suresh Kumar, S., **Immanuel Selvakumar, A.**, Edwin Prem Kumar, G., Wind farm power prediction based on wind speed and power curve models, Lecture Notes in Electrical Engineering, 2018, 446, pp. 15-24
- 17. Meenal, R., **Immanuel Selvakumar**, A.. Temperature based model for predicting global solar radiation using genetic algorithm [GA], Proceedings of IEEE International Conference on Innovations in Electrical, Electronics, Instrumentation and Media Technology, ICIEEIMT 2017, 2017, 2017-January, pp. 111-116
- 18. Jeyaprabha, S.B., **Immanuel Selvakumar, A.** Model-Based MPPT for Shaded and Mismatched Modules of Photovoltaic Farm, IEEE Transactions on Sustainable Energy, 2017, 8(4), pp. 1763-1771, 7936560
- 19. Jenitha, P., **Immanuel Selvakumar**, **A.**, Fault detection in PV systems, Applied Solar Energy (English translation of Geliotekhnika), 2017, 53(3), pp. 229-237
- 20. Satheesh Kumar, S., **Immanuel Selvakumar, A.**, Detection of the faults in the photovoltaic array under normal and partial shading conditions, 2017 Innovations in Power and Advanced Computing Technologies, i-PACT 2017, 2017, 2017-January, pp. 1-5
- 21. Meenal, R., **Immanuel Selvakumar, A.**, Estimation of global solar radiation using sunshine duration and temperature in Chennai, 1st International Conference on Emerging Trends in Engineering, Technology and Science, ICETETS 2016 Proceedings, 2016, 7603089

- 22. Paul Sathiyan, S., Suresh Kumar, S., **Immanuel Selvakumar, A.**, Safety assessment of vehicles with ensemble FLC based FCAS, International Journal of Engineering and Technology, 2016, 8(4), pp. 1719-1727
- 23. Lydia, M., Suresh Kumar, S., **Immanuel Selvakumar**, A., Edwin Prem Kumar, G., Linear and non-linear autoregressive models for short-term wind speed forecasting, Energy Conversion and Management, 2016, 112, pp. 115-124
- 24. Vinoth Kumar, K., Suresh Kumar, S., **Immanuel Selvakumar, A.**, Investigation of broken bar and eccentricity problem in asynchronous machines using PDT & MCSA technique, Journal of Electrical Engineering, 2016, 16(4)
- 25. Meenal, R., Gaziz Boazina, P., **Immanuel Selvakumar**, A., Temperature based radiation models for the estimation of global solar radiation at horizontal surface in India, Indian Journal of Science and Technology, 2016, 9(46), 101922
- 26. Vinoth Kumar, K., **Immanuel Selvakumar**, **A.**, Suresh Kumar, S., Saravana Kumar, R., Recent techniques to identify the stator fault diagnosis in three phase induction motor, Sustaining Power Resources through Energy Optimization and Engineering, 2016, pp. 309-325
- 27. Jagannath, D.J., **Immanuel Selvakumar, A**. Superior foetal electrocardiogram signal elicitation using a novel artificial intelligent Bayesian methodology, Applied Soft Computing Journal, 2015, 37, pp. 1002-1017
- 28. Jeyaprabha, S.B., **Immanuel Selvakumar, A.**, Optimal sizing of photovoltaic/battery/diesel based hybrid system and optimal tilting of solar array using the artificial intelligence for remote houses in India, Energy and Buildings, 2015, 96, pp. 40-52
- 29. Jones, S.B.R., Poongodi, P., **Immanuel Selvakumar, A.**. Model reference fuzzy cascade controller: A novel method for attaining desired mass flow in a wind tunnel. International Journal of Information and Communication Technology, 2015, 7(4-5), pp. 336-347
- 30. Sathiyan, S.P., Kumar, S.S., **Immanuel Selvakumar, A.**,Optimised fuzzy controller for improved comfort level during transitions in Cruise and Adaptive Cruise Control Vehicles,International Conference on Signal Processing and Communication Engineering Systems Proceedings of SPACES 2015, in Association with IEEE, 2015, pp. 86-91, 7058221
- 31. Lydia, M., Suresh Kumar, S., **Immanuel Selvakumar, A.**, Edwin Prem Kumar, G.Wind resource estimation using wind speed and power curve models, Renewable Energy, 2015, 83, pp. 425-434