

## **Dr. I.Jacob Raglend**

### **List of Journal Publications:**

1. Praveena, J., Raglend, I.J. "Hardware implementation of intelligent home energy conservation system with IoT platform" (2019) International Journal of Advanced Science and Technology, 28 (13), pp. 392-401.
2. Reddy, T., Reddy, N., Raglend, I.J. "Integration of wind connection low frequency ac transmission system using back to back converters" (2019) International Journal of Advanced Science and Technology, 28 (13), pp. 297-307.
3. Vankadara, K., Raglend, I.J. "A review to economic dispatch of hybrid microgrids" (2019) Serbian Journal of Electrical Engineering, 16 (2), pp. 233-246.
4. Dharavath, R., Raglend, I.J. "Intelligent controller based solar photovoltaic with battery storage, fuel cell integration for power conditioning" (2019) International Journal of Renewable Energy Research, 9 (2), pp. 859-867.
5. Tejeswini, M.V., Jacob Raglend, I., Yuvaraja, T., Radha, B.N. "An advanced protection coordination technique for solar in-feed distribution systems" (2019) Ain Shams Engineering Journal, 10 (2), pp. 379-388.
6. Dharavath, R., Raglend, I.J. "Integration of utility grid with hybrid generation for power quality conditioning using dynamic voltage restorer" (2019) International Journal of Renewable Energy Research, 9 (1), pp. 56-64.
7. Centhil Kumar, C., Raglend, I.J. "A novel crow search based strategy for maximum power point tracking of wind turbines driven by doubly fed induction generator" (2018) International Journal of Simulation: Systems, Science and Technology, 19 (6), pp. 10.1-10.5.
8. Dharavath, R., Raglend, I.J. "Fuzzy controller based solar photovoltaic system, fuel cell integration for conditioning the electrical power" (2018) Journal of Green Engineering, 8 (3), pp. 301-318.
9. Felix Stephen, S., Jacob Raglend, I. "Voltage regulation using STATCOM with PI and adaptive PI controls" (2018) International Journal of Engineering and Technology(UAE), 7 (3.1 Special Issue 1), pp. 178-182.
10. Centhil Kumar, C., Jacob Raglend, I. "A MPPT strategy based on cuckoo search for wind energy conversion system" (2018) International Journal of Engineering and Technology(UAE), 7 (4), pp. 2298-2303.
11. Felix Stephen, S., Jacob Raglend, I. "PI control of statcom with BAT algorithm" (2018) Journal of Advanced Research in Dynamical and Control Systems, 10 (5), pp. 171-180.
12. Centhil Kumar, C., Jacob Raglend, I. "MPPT based various control strategies for wind energy conversion system and its reliability-survey" (2018) Journal of Advanced Research in Dynamical and Control Systems, 10 (5), pp. 201-206.
13. Dharavath, R., Raglend, I.J., Karthikeyan, S.P., Edward, J.B. "A bibliographical survey on integration of hybrid renewable energy sources with diesel generator and storage system" (2018) Journal of Engineering Science and Technology Review, 11 (5), pp. 61-75.

14. Singh, J.K., Sagar, G.V., Lenka, S., Edward, B.J., Raglend, J.I., Olabiyisi, S.O. "A case study: Usb device charging and fitness monitor with smart safety shoe and IOT" (2017) *International Journal of Mechanical Engineering and Technology*, 8 (10), pp. 719-728
15. Peter, S.E., Raglend, I.J. "Sequential wavelet-ANN with embedded ANN-PSO hybrid electricity price forecasting model for Indian energy exchange" (2017) *Neural Computing and Applications*, 28 (8), pp. 2277-2292.
16. Jacob Raglend, I., Dev Anand, M. "Inverse kinematics solution of a five joint robot using recurrent neural network algorithm" (2017) *International Journal of Mechanical Engineering and Technology*, 8 (5), pp. 941-958.
17. Felix Stephen, S., Jacob Raglend, I. "Voltage regulation using PI control of STATCOM with firefly algorithm" (2017) *International Journal of Mechanical Engineering and Technology*, 8 (8), pp. 766-776.
18. Tibbie Pon Symon, V.A., Jacob Raglend, I., Suji Pramila, R. "A new approach for the reduction of distribution losses in smart grid" (2017) *International Journal of Mechanical Engineering and Technology*, 8 (8), pp. 801-809.
19. Dharavath, R., Jacob Raglend, I., Belwin Edward, J., Shaaban, S.A. "Grid connected solar photovoltaic-fuel cell based hybrid system with dynamic voltage restorer" (2017) *Journal of Advanced Research in Dynamical and Control Systems*, 9 (8), pp. 9-17.
20. Narasimha Reddy, T.R., Jacob Raglend, I., Karthikeyan, S.P., Abdel-Moamen, M.A. "A comprehensive review on the development of fractional frequency transmission system for off shore wind farms" (2017) *Journal of Advanced Research in Dynamical and Control Systems*, 9 (8), pp. 1-8.
21. Retnamony, R., Raglend, J. "Congestion management considering voltage stability and loss minimization using FACTS devices" (2016) *Journal of Chemical and Pharmaceutical Sciences*, 9 (1), pp. 465-470.
22. Felix Stephen, S., Jacob Raglend, I. "A review on pi control of statcom for voltage regulation" (2016) *Journal of Chemical and Pharmaceutical Sciences*, 9 (1), pp. 334-340.
23. Retnamony, R., Jacob Raglend, I. "N-1 contingency analysis in a congested power system and enhance the voltage stability using FACTS devices" (2016) *International Journal of Control Theory and Applications*, 9 (7), pp. 3147-3157.
24. Jacob Raglend, I., Dev Anand, M. "Inverse kinematics solution of a five joint robot using TD and distributed TDN network" (2016) *International Journal of Control Theory and Applications*, 9 (7), pp. 3159-3179.
25. Lekshmi, B.S.K., Raglend, I.J. "A 9-element tapered slot antenna array fed with t-junction power divider for x-band radar applications" (2016) *International Journal of Control Theory and Applications*, 9 (36), pp. 573-589.
26. Raglend, J., Dev Anand, M., Glan Devadhas, G., Mary Synthia Regis Prabha, D.M. "Inverse kinematics solution of a five joint robot using narx algorithm" (2016) *Journal of Chemical and Pharmaceutical Sciences*, 9 (4), pp. 2677-2687.

27. Rohit, I.J., Jacob Raglend, I., Dev Anand, M. "Inverse kinematics solution of a five joint robot using MRAN algorithm" (2016) *International Journal of Control Theory and Applications*, 9 (7), pp. 3211-3229.
28. Siddique Ahmed Ghias, A., Dev Anand, M., Jacob Raglend, I., Shamila, F. "Solution for a five link industrial robot manipulator inverse kinematics using intelligent prediction response method" (2016) *Indian Journal of Science and Technology*, 9 (21), art. no. 90570.
29. Lekshmi, B.S.K., Jacob Raglend, I. "A vivaldi antenna for X-band phased array radar"(2015) *Indian Journal of Science and Technology*, 8 (35), .
30. Suja, K.R., Raglend, J. "Cuckoo search (CS)-NFC-based UPQC for compensating voltage sag of nonlinear load" (2015) *Journal of Experimental and Theoretical Artificial Intelligence*, 27 (6), pp. 703-720.
31. Mary Anita, J., Jacob Raglend, I. "Power flow constrained unit commitment problem using improved shuffled frog leaping algorithm" (2015) *Lecture Notes in Electrical Engineering*, 326, pp. 1545-1555.
32. Lekshmi, B.S.K., Jacob Raglend, I. "Design and analysis of Vivaldi antenna array for X-band airborne radar applications" (2015) *International Journal of Applied Engineering Research*, 10 (4), pp. 10579-10594.
33. Lekshmi, B.S.K., Raglend, J.I. "Design of wideband widescan linear tapered slot antenna for an active electronically scanned array Antenna" (2015) *Lecture Notes in Electrical Engineering*, 326, pp. 1489-1496.
34. Jacob Raglend, I., Dev Anand, M., Rohit, I.J. "Comparative study of inverse kinematic solution for a five joint robot using various neural network models" (2015) *International Journal of Applied Engineering Research*, 10 (45 Special Issue), pp. 31966-31970.
35. Prabhakar Karthikeyan, S., Jacob Raglend, I., Sathish Kumar, K., Sahoo, S.K., Priya Esther, B. "Application of SVM as classifier in estimating market power under deregulated electricity market" (2015) *Lecture Notes in Electrical Engineering*, 326, pp. 1309-1317.
36. Prakash, J., Sahoo, S.K., Prabhakar Karthikeyan, S., Jacob Raglend, I. "Design of PSO-fuzzy MPPT controller for photovoltaic application" (2015) *Lecture Notes in Electrical Engineering*, 326, pp. 1339-1348.
37. Monica Subashini, M., Sahoo, S.K., Prabhakar Karthikeyan, S., Jacob Raglend, I. "A grade prediction methodology for astrocytoma using modified K-clustering network" (2015) *Lecture Notes in Electrical Engineering*, 326, pp. 1127-1138.
38. Razia Sultana, W., Sahoo, S.K., Prabhakar Karthikeyan, S., Jacob Raglend, I., Chandrashekar, A., Syam Pradeep, A. "Application of bacterial foraging optimization for elimination of lower order harmonics in seven level inverter" (2015) *Lecture Notes in Electrical Engineering*, 326, pp. 1173-1181.