Dr.K.Dhayalini

Prof&Head/EEE

K.Ramakrishnan College of Engineering

dhaya2k@gmail.com

9952877028

PUBLICATION IN INTERNATIONAL JOURNAL PUBLICATION LAST FIVE YEARS:

1. **K. Dhayalini**&Vigneshwaran. P, 2020, "IOT and Renewable Energy Systems Based Connected Chair for Health Monitoring", in Materials Science and Engineering 937 (2020) 012041 **(Scopus Indexed)**
2. **K. Dhayalini**& Priyadarshini. S.A, 2020, "Connected Chair for Health Monitoring Through IOT and Computer Vision.", in Materials Science and Engineering 937 (2020) 012041 **(Scopus Indexed)**
3. K.S. Gowthaman, **K. Dhayalini**& S. Palaniyappan, 2020, "Locating Electric Vehicle Charging Station Depends On Vehicle Count/Density", in High Technology Letters, Volume 26, Issue 7, pp: 751-759 **(Scopus Indexed)**
4. **K. Dhayalini**&SubramaniyaSiva.A, 2020, "Flower pollination algorithm for economic dispatch problems with non-smooth cost function", in IEEE Explore digital Library, pp:254-257 **(Scopus Indexed)**
5. **K. Dhayalini**& Mukesh. R, 2020, "Series voltage injection for the regulation of load voltage using SPWM based single phase inverter", in IEEE Explore digital Library, pp:197-200 **(Scopus Indexed)**
6. **K. Dhayalini**& Prabhu. A, 2020, "Optimization of wind thermal coordination dispatch using Flower Pollination Algorithm", in IEEE Explore digital Library, pp:488-492 **(Scopus Indexed)**
7. **K. Dhayalini**&S.Kirthika 2020, "Power Oscillation damping using UPFC" in International Journal of Scientific and Technology Research, Vol.9, No.4,pp:1256-1259 **(Scopus Indexed)**

8. **Dhayalini.K**& R. Mukesh, 2020, "Optimal setting and sizing of solar photovoltaic generation in an electrical distribution system" published in IEEE xplore digital, pp:01-05. **(Scopus Indexed)**
9. **Durgadevi.A,** Dhayalini.K& Saran Raj.R, 2019, "Performance of controllers for non linear process" published in International Journal of Electrical and Electronics Engineering, Vol.6, No.11, pp:01-06
10. **Dhayalini.K**&Priyadharshini. S.A, 2019, "Smart Energy meter and feedback system for effective utility of power" published in International Journal of Innovative research in Electrical, Electronics, Instrumentation and Control Engineering, Vol.7, No.5, pp:90-95
11. **Dhayalini.K**&Priyadharshini.S.A, 2019, "A smart systematic approach for Licence registration process" published in International Journal of Innovative research in Electrical, Electronics, Instrumentation and Control Engineering, Vol.7, No.5, pp:60-65
12. **Dhayalini.K**&Durgadevi.A, 2019, "Soldier health care monitoring and tracking system using LabVIEW and Zigbee" published in International Journal of Innovative research in Electrical, Electronics, Instrumentation and Control Engineering, Vol.7, No.6, pp:14-18
13. **Dhayalini.K**, 2018, "Optimal allocation of distributed solar photovoltaic generation on electrical distribution system under uncertainties" published in Journal of Engineering Research, Kuwait University, Vol.6, No.3, pp: 151-169. **(Scopus & SCI Indexed)**
14. **Dhayalini.K&Vinothini.N,** 2018, "Design of multilevel inverter using Nearest Level Control Technique with reduced power switches" published in IEEE Xplore Digital Library, pp: 568-571. **(Scopus Indexed)**
15. **Dhayalini.K&Mukesh.R,** 2018, "Deterioration and non-deterioration waste separation using pick and place" published in IEEE Xplore Digital Library, pp: 96-99. **(Scopus Indexed)**
16. **Dhayalini.K&Richard.S.P**2018"Design and simulation of neutral point clamped multilevel inverter using HSVM algorithm" International Journal of Pure and applied mathematics, Vol.118, No.18, pp.2089-2095.**(Scopus Indexed)**
17. **Dhayalini.K&Mukesh.R,** 2018 "Active power filter for vehicle to grid application using bidirectional conversion techniques in manufacturing industries" International

Journal of Pure and applied mathematics, Vol.118, No.18, pp.1971-1980. **(Scopus Indexed)**

18. **Dhayalini.K& Mukesh .R,** 2017, "Optimal tracing based real power loss in transmission lines" published in IEEE Xplore Digital Library, pp: 20-25. **(Scopus Indexed)**
19. **Dhayalini.K,** 2017, "Design and Development of Islanding detection Algorithm for control of micro-grid", Journal of Chemical and Phrmaceutical Sciences, Vol.10, No.1, pp.536-542**. (Scopus Indexed)**
20. **Dhayalini.K&Durgadevi.A, 2017** "IOT based design and analysis of robotic vehicle movement for military applications" International Journal of Innovations & Advancement in Computer science, Vol.6, No.11, pp.668-673.
21. **Dhayalini.K&Priyadharshni S.A,** 2017 " MEMS multisensory based intelligent damage detection for wind turbines" International Journal of Computer and mathematical sciences Vol.6, No.11,pp181-189
22. **Dhasarathan.R&Dhayalini.K,** 2017, 'Flower Pollination Algorithm for Economic Dispatch problems with non smooth cost functions', International Journal of Innovative Research in Science, Engineering and Technology, Vol.6, No.6 pp.
23. **Dhayalini. K**, 2017, 'Hybrid Particle Swarm Optimization - Genetic Algorithm Based Optimal Dispatch of Wind and Thermal System', Asian Journal of Research in Social Sciences and Humanities, vol. 7, no.1, pp364 -383. **(Scopus Indexed)**
24. **Dhayalini. K,** 2016, 'A novel electrical and mechanical MPPT for Solar Photovoltaic System at any climatic condition and sudden changes in the irradiance ', International Journal of Advancement in Chemistry, vol. 12, no.18, pp.5070 -5079.
25. **Dhayalini. K**, 2016, 'Optimization Of Wind-Thermal Coordination Dispatch Using Flower Pollination Algorithm',International Journal of Advancement in Chemistry, vol. 12, no.16, pp. 4963 – 4970.
26. **Dhayalini. K**, 2016, 'Locational Marginal Prices based Optimization of Integrated Wind power grinds using Restructured Power System',International Journal of Electronics, Electrical and Computational system, vol. 05, no.11, pp. 64 -74,

27. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2014**,** 'Genetic Algorithm for the coordination of wind-thermal dispatch', PrzegladElektrotechniczny, Poland, vol.2014, no.9, pp.45-48**.(Scopus Indexed)**
28. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2014, 'Performance Comparison of GA and PSO on Wind and Thermal Generation Dispatch', Advanced Materials Research, Switzerland, vol. 984, pp.759-763.
29. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2014, 'Hybrid Evolutionary Particle Swarm optimization for the Coordination of wind and thermal generation dispatch', Applied Mechanics and Materials, Switzerland, vol. 573, pp.684-689.
30. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan.C** 2014, 'Evolutionary Programming based Optimal Wind and Thermal Generation Dispatch with valve point effect', International Review on Modelling and Simulations, Italy, vol.7, no.4, pp.598-604.
31. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2014, 'Genetic Algorithm based Wind-Thermal Coordination Dispatch including Transmission Losses', Lecture Notes in Electrical Engineering (Springer), Germany, vol.326, pp.329-340.**(Springer) (Scopus Indexed)**
32. **Darsana. S.R, Dhayalini. K &Sathiyamoorthy. S,** 2014,'Solution of Economic Dispatch Problem with Smooth and Non smooth Cost Function using Particle Swarm Optimization', Advanced Materials Research, Switzerland, vol. 985, pp.1295-1300.
33. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2013, 'Coordination of Wind Thermal Generation Dispatch using Genetic Algorithm', Archives Des Sciences, Switzerland, vol.66, no.1, pp.105-119.
34. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2013, 'Coordination of Wind Thermal Generation Dispatch using Particle Swarm Optimization', Wulfenia Journal, Austria, vol.20, no.1, pp.251-262.
35. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2013**,**'Optimal Wind Thermal Generation Dispatch using Evolutionary Programming', European Journal of Scientific Research, United Kingdom, vol.97, no.2, pp.304-314.
36. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2013, 'Particle Swarm Optimization for the coordination of optimal wind and thermal generation dispatch', International Review of Electrical Engineering (IREE), Italy, vol.8, no.6, pp.1843-1849**.(Scopus Indexed)**
37. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2013, 'Ant Colony Algorithm for the Coordination of Wind and Thermal Generation Dispatch', Advanced Materials Research, Switzerland, vol. 773, pp.132-138.

38. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2012, 'GA Solution to coordinate the wind thermal generation Dispatch' published in IEEE Xplore Digital Library, ISBN 978-81-909042-2-3, and pp: 326-331. **(Scopus Indexed)**
39. **Saravanan. K &Dhayalini. K** 2012, 'Optimal Wind Thermal Coordination Dispatch Using Direct Search Method', International Journal of Communication and Engineering, vol.04, no.4, pp.26-33.
40. **Dhayalini. K, Sathiyamoorthy. S &Christober Asir Rajan. C** 2012, 'Particle Swarm Optimization based coordination of wind thermal generation dispatch', International Journal of Communication and Engineering, vol.02, no.4, pp.44-49.
41. **Elavarasi. K &Dhayalini**. **K** 2012, 'A Novel Coupled Inductor based Wide Input Wide Output DC-DC Converter', CiiT International Journal of Programmable Device Circuits, vol.1, no.1, pp. 602-609.
42. **Bhuvneswari. M &Dhayalini. K** 2012, 'Design and Simulation of Boost Converter with Ripple Reduction', Ciit International Journal of Digital signal Processing, vol.3, no.1, pp. 401- 407.
43. **Dhayalini. K, Amsaraj. G &Sathiyamoorthy. S** 2013, 'Optimization of thermal load dispatch model constrained by wind power', International Journal of Science, Engineering and Technology ResearchVol.2, Issue.1 January 2013, pp 197-201.
44. **Dhayalini. K, Deepu. M.S, Sathiyamoorthy. S &Christober Asir Rajan, C** 2013, 'Estimating the Cost of Wind Power in a Restructured Power System Based on Locational Marginal Prices' International Journal of Scientific & Engineering Research(IJSER), vol. 4, no.8, pp.86-94.
45. **Sudha. S &Dhayalini. K,** 2013, 'A Novel method for solving unit commitment problem', International Journal of Science, Engineering and Technology Research, vol.2, no.1, pp 202-205.
46. **Honey Susan Eldo &Dhayalini.K** 2013, 'Design and simulation of AC to DC low voltage energy harvesting converters', International Journal of Scientific & Engineering Research, vol.4, no. 8, pp.564-602.
47. **Dhayalini, K, Sathiyamoorthy, S &ChristoberAsirRajan, C, 2013**, 'An Evolutionary algorithm for the solution of wind thermal dispatch', International Journal of Engineering Science and Technology, vol. 5, no.6, pp30-36.
48. **Sivamurugan. R, Dhayalini. K &Sathiyamoorthy. S, 2014**, 'Single Phase Grid Connected Wind Power using Chopper Based PI Controller', International Journal of Innovative Research in Science, Engineering and Technology, vol.3, no.3, pp.540-544.

49. **Marva. M &Dhayalini. K,** 2015, 'Solution to Economic Dispatch Problem with Non Smooth Cost Function using Improved Particle Swarm Optimization', International Journal of Electronics, Electrical and Computational Systems, vol. 4, pp.53-61.
50. **Nandhini. C &Dhayalini.K** 2015, 'Evolutionary Programming and iteration Particle Swarm Optimization for Optimal Spinning Reserve of Wind-Thermal Power systems', International Journal of Advanced Research and Innovation, pp 83-87.