

Dr. A. Ramkumar Publications

International Journals

1. Nisha Vasudevan, Vasudevan Venkatraman, Ramkumar A and Androse Joseph Sheela, **“Real-Time Day Ahead Energy Management for Smart Home Using Machine Learning Algorithm”**, Journal of Intelligent and Fuzzy Systems, IOS Press. (Accepted)
2. A. Ramkumar , K. Karthi , K. Rajesh, **“Review of Coordinated Control Strategy for Hybrid Type Wind Farms Under Network Faults”** International Journal of Advanced Science and Technology Vol. 29, No.4, (2020), pp. 4143 – 4152.
3. Ramkumar Adhi, Rajesh Krishnasamy, M. Nitish, S. Yashwant Kumar, D. Edwin Deva Asirvatham, Booma Jeyabalan, **“Improving the Performance of Agriculture Irrigation System using Arduino”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4S2, 2019.
4. Nisha.V, V.Vasudevan, A.Ramkumar, **“Examination of The Impact of Smart Grid Technologies For Energy Saving Potential on Residential Buildings In India”**, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-2S2, 2019.
5. Sreekala P, A Ramkumar , K.Rajesh, **“Performance Analysis of Thermo Electric Generator using MATLAB”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4S2, 2019.
6. G.Esakkimuthu, Rajesh Krishnasamy, Ramkumar Aathi, **“Hybrid System Analysis using Solar and Wind Power”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4S2, 2019.
7. Nisha.V, V.Vasudevan, A.Ramkumar, **“Modeling and Simulation of a Control Algorithm for Home Energy Management System”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4S2, 2019.
8. G.Esakkimuthu, Rajesh Krishnasamy, Ramkumar Aathi, **“Partial Shading Conditions of Solar Photovoltaic System”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4S2, 2019.
9. Rajesh Krishnasamy, Ramkumar Aathi, Booma Jayapalan, K.Karthikeyen , Mohamed Nowfal, **“Automatic Fuel Monitoring System”**, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-4S2, 2019.
10. Kshatriya Vamshi Krishna Varma, A. Ramkumar, **“ A Novel M-SEPIC DC-DC Converter for BLDC Pumping System with Active PFC using ANFIS Controller”**, Indonesian Journal of Electrical Engineering and Computer Science Vol. 11, No. 1, 2018, pp. 386~399 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v11.i1.pp386-399.

11. P. Sreekala, A. Ramkumar, **“Performance Analysis Of Thermo Electric Generator With Different Controllers”**, International Journal of Current Engineering And Scientific Research, ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, VOLUME-4, ISSUE-11, 2017.
12. A. Ramkumar, P. Sreekala, **“Modelling and Simulation of a Line Integrated Parabolic Trough Collector with Inbuilt Thermoelectric Generator”**, International Journal of Control Theory and Applications, Vol. 10(5), 2017, pp. 589-597.
13. Kshatriya Vamshi Krishna Varma, Kalahasti Sirisha, and A. Ram Kumar, **“A New Switching Pattern Scheme-Based Compact Integrated 15-Level Smart Inverter for Micro-grid System Using Fuzzy Logic Controller”**, Lecture Notes in Electrical Engineering 435, https://doi.org/10.1007/978-981-10-4286-7_23.
14. A. Ramkumar, S. Durairaj and N. Arun, **“Comparison of PI and PIR Regulators for DFIG during Unbalanced Grid Voltage Conditions,”** Lecture Notes in Electrical Engineering (SPRINGER), 326, DOI 10.1007/978-81-322-2119-7_38, pp. 373-381, 2015.
15. A. Ramkumar, S. Durairaj and K. Dhivya, **“Enhanced Controllers of DFIG with Unbalanced and Distorted Grid Voltage Conditions,”** Lecture Notes in Electrical Engineering (SPRINGER), 326, DOI 10.1007/978-81-322-2119-7_32, pp. 313-319, 2015.

International Conferences

1. G. Essakimuthu, K. Rajesh, A. Ramkumar, **“A Review on Development of MPPT and Control Strategy of Solar Photovoltaic Water Pumping System”**, International Web Conference on Smart Engineering Technologies 2020 (IWCSET-2020), Ramco Institute of Technology, Rajapalayam, 28-29, June 2020.
2. Rajesh. K. Ramkumar. A, Pooma Jeyabalan, **“Application of Comprehensive Learning Particle Swarm Optimization to Least Cost Generation Expansion Planning Problem with Solar Plant”**, IEEE-International Conference on Clean Energy and Energy Efficient Electronics Circuit for Sustainable Development (INCCES), Kalasalingam Academy of Research and Education, pp: 21-25, Dec-18-20, 2019, DOI: [10.1109/INCCES47820.2019.9167689](https://doi.org/10.1109/INCCES47820.2019.9167689).
3. Kshatriya Vamshi Krishna Varma, Ramkumar. A, Rajesh. K, **“Grid Integrated Eco-Friendly Pumping System for Active PFC Using Interleaved Boost Converter (IBC) Topology”**, IEEE-International Conference on Clean Energy and Energy Efficient Electronics Circuit for Sustainable Development (INCCES), Kalasalingam Academy of Research and Education, pp: 51-59, Dec-18-20, 2019, DOI: [10.1109/INCCES47820.2019.9167711](https://doi.org/10.1109/INCCES47820.2019.9167711).
4. P. Sreekala, Ramkumar. A, Rajesh. K, **“Thermo Electric Generator fed LVDC System analyzed with non Linear Loads”**, IEEE-International Conference on Clean Energy and Energy Efficient Electronics Circuit for Sustainable Development (INCCES), Kalasalingam Academy of Research and Education, pp: 163-166, Dec-18-20, 2019, DOI: [10.1109/INCCES47820.2019.9167705](https://doi.org/10.1109/INCCES47820.2019.9167705).

5. V. Dhanesh Menon, J. Trilok kumar, M. Sabhanayagan, A. Ramkumar, K. Rajesh, **“Cyber Security for Smart Meters”**, 2019 IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS), Kalasalingam Academy of Research and Education, 2019, DOI: 10.1109/INCOS45849.2019.8951407.
6. K. Karthi, A. Ramkumar, **“A Review of Wind Electric Generators from Electrical Perspective”**, IEEE International Conference on Electrical, Electronics, Computer, Communication, Mechanical and Computing (EECCMC), Priyadharshini Engineering College, Vaniyambadi, 28-29, Jan. 2018, 978-1-5386-4304-4/18/.
7. **“Performance Analysis and Corroboration of Improved Electronic Ballast for Fluorescent Lamp”**, in International Conference on Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT'2017), Pondicherry Engineering College, Pondicherry during 24-25 February 2017.
8. **“Modeling and simulation of a line integrated parabolic trough collector with inbuilt thermoelectric generator”**, in 2nd International Conference on Smart Electric Grid, K L University Andhra Pradesh during 22-23, Dec. 2016.
9. **“A New Switching Pattern Scheme Based Compact Integrated 15-Level Smart Inverter for Micro-Grid System using Fuzzy Controller”**, 1st Springer International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy, Sikkim Manipal Institute of Technology, Majhitar, Sikkim during 17th -18th Dec. 2016.

National Conferences

1. **“Near Field Communication on Raspberry Pi”**, FIFTH NATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS – NPES'18, Dept. of EEE, KARE, 12-13 April 2018, pp. 88-91.
2. **“Mathematical Modeling and analysis of Thermo Electric Generator”**, FIFTH NATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS – NPES'18, Dept. of EEE, KARE, 12-13 April 2018, pp. 28-30. (Selected as a Best paper)
3. **“Fire Fighting Drone”**, FIFTH NATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS – NPES'18, Dept. of EEE, KARE, 12-13 April 2018, pp. 122-124.
4. **“Recent Power Generation and Usage by Renewable Resource Energy in India”**, FIFTH NATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS – NPES'18, Dept. of EEE, KARE, 12-13 April 2018, pp. 161-168.
5. **“Closed Loop Control of SVPWM based STATCOM with Renewable Energy”**, 33rd National Convention of Electrical Engineers NCEE 2017, 24-25, November 2017, held at NIT-T organized by IEE-TLC, Tiruchirappalli, PP. 136-139.

6. **“Study of Optimal Sizing techniques in Hybrid PV-Wind Energy Conversion Systems”** in National Conference on Power and Energy Systems NPES-'16, Kalasalingam University, April 1-2, 2016.