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PUBLICATIONS

INTERNATIONAL JOURNALS: SCI Indexed

1. S. Saravanan, **K.Karunanithi** and Pragaspathy Subramani "A Novel Topology for Bidirectional Converter with High Buck Boost Gain" *Journal of Circuits, Systems, and Computers*, 2020. **(Impact Factor:1.369)**
2. **K.Karunanithi**, S. Saravanan, B. R. Prabakar, S. Kannan, and C. Thangaraj. "Integration of Demand and Supply Side Management strategies in Generation Expansion Planning." *Renewable and Sustainable Energy Reviews*, (**Elsevier**)73 (2017): 966-982. **(Impact Factor:10.556)**
3. **K.Karunanithi**, S. Kannan, and C. Thangaraj. "Generation expansion planning for Tamil Nadu: a case study." *International Transactions on Electrical Energy Systems* (2015). (**Wiley**), **Impact Factor: 1.314** (DOI: 10.1002/etep.1929)

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1. **K.Karunanithi**, K.Rajesh, S. Saravanan and V.Magesh, "Application of DEA for least cost GEP with solar power plant, *Time Engineering and Management*, Vol.88, Jan.2020, pp.7623-7628.
2. Sivakumar.S, Siddappa Naidu.K and **Karunanithi.K**, "IOT based energy management system for an autonomous hybrid micro-grid" *International Journal of Innovative Technology and Exploring Engineering*, Vol.8, issue 10, (2019), pp.1318-1323.

3. Sivakumar.S, Siddappa Naidu.K and **Karunanithi.K**, “Design of energy management system using autonomous hybrid micro-grid under IOT environment”, International Journal of Recent Technology and Engineering, Vol.8, issue 2S2, (2019), pp.338-343.
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7. S. Prakash, **K Karunanithi**, “A Novel Approach Transmission expansion planning By Using Different Algorithms like GA, BFOA and AIS”, Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, no. 02, (2018).
8. G Gnaneshwar Kumar, **K. Karunanithi**, “Design & inspection of voltage stabilization circuit using 3tscmi”, International Journal of Recent Technology and Engineering, Volume-8, Issue-2S3, July 2019.
9. G Gnaneshwar Kumar, **K. Karunanithi**, “Empirical Analysis of Medium and High Voltage Stabled Multi-Level Inverter Circuit Design Strategies”, Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, no.07, (2018)
10. Booma Jayapalan, Mahadevan Krishnan, **K.Karunanithi**, and Kannan Subramanian, “Renewable Energy Penetration and Its Impact on Reliability—A Case Study of Tamil Nadu” Journal of Computational and Theoretical Nanoscience Vol. 14, no.8, (2017), pp. 4036–4044.

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1. Booma Jayapalan, Mahadevan Krishnan, **K.Karunanithi**, and Kannan Subramanian, “Integrated strategies for load management in the state of Tamil Nadu” Journal of Electrical Engineering, vol.18 (4), (2018).

2. S.Saravanan, **K.Karunanithi**, and M.Rasukutti “Analysis of performance factors of an Indian power system for different demand growth scenarios”, Journal of Electrical Engineering, vol.18 (4), (2018).
3. S.Saravanan, **K.Karunanithi**, “Forecasting of electric energy consumption in Agriculture sector of India using ANN Technique” International Journal of Pure and Applied Mathematics Vol. 119, no. 10 (2018), pp.261-271.
4. **K.Karunanithi**, S.Saravanan, P.Duraipandi, “Reliability and Environmental Pollution Analysis of an Indian Power Sector in 2016” International Journal of Pure and Applied Mathematics, Vol. 118, no. 24, (2018).
5. S.Saravanan, S.Amosedinakaran, **K.Karunanithi** “Predicting India’s Domestic Sector Electricity Consumption: A Comparison of Genetic Algorithm and Differential Evolution” International Journal of Engineering Science and Technology (IJEST), ISSN: 0975-5462, Vol. 9, No.06, (2017), pp.562-567.
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1. A.Bhuvanesh, **K.Karunanithi** and S. Kannan. "Least cost generation expansion planning with wind plant using differential evolution algorithm." *Circuit, Power and Computing Technologies (ICCPCT), 2014 International Conference on IEEE*, 2014.
2. **K.Karunanithi**, S. Kannan, and C. Thangaraj. "Reliability Evaluation of Tamil Nadu Power Grid for the Year 2012." *Power Electronics and Renewable Energy Systems*. Springer India, 2015. 1067-1076.
3. S.Sundaramoorthi, **K.Karunanithi**, S.Saravanan, S.Praveenkumar, "Analysis and Control of Chaos in DC-DC NOEL Converter using Slope Compensation Method", IEEE, International Conference on Intelligent Techniques in Control, Optimization and Singal Processing (INCOS'17), Kalasalingam University, Krishnankoil, pp. 525-529, March 23-25, 2017. (ISBN: 978-1-5090-4777-2)
4. Pranav M.S, S. Saravanan, **K.Karunanithi**, Afsal V.M, Akhil M, Akhila Krishnan "Hybrid Renewable Energy Sources (HRES): A Review" IEEE International Conference International Conference, Intelligent Computing, Instrumentation, Control Technologies (ICICT 2017), Vimal Jyothi Engineering College, Kannur District (Kerala), July 06 – 07, 2017.
5. Saravanan S, Mahesh K, Karunanithi K "Prediction of India's electricity consumption in industrial sector using soft computing techniques" *International Conference on Power, Control, Signals and Instrumentation Engineering, ICPCSI 2017 (2018) 1990-1994*, DOI: 10.1109/ICPCSI.2017.8392063
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