

**Dr. Karthik Thirumala**

**List of Publications (Last 5 Years)**

1. Vivek Mohan, Siqi Bu, M. Jisma, V.C. Rijnlal, **K. Thirumala**, Mini S. Thomas, Zhao Xu, "Realistic energy commitments in peer-to-peer transactive market with risk adjusted prosumer welfare maximization," **Int. J. Electrical Power & Energy Systems**, vol. 124, pp-1-13, 2021
2. **K. Thirumala**, A. Kanjolia, T. Jain, and A. C. Umarikar, "Empirical Wavelet Transform and Dual Feed Forward Neural Network for Classification of Power Quality Disturbances," **Int. J. Power and Energy Conversion**, vol. 11, no.1, pp. 1-21, January 2020.
3. **K. Thirumala**, S. Pal, T. Jain, and A. C. Umarikar, "A classification method for multiple power quality disturbances using EWT based adaptive filtering and multiclass SVM," **Neurocomputing**, Vol. 334, pp. 265 - 274, March 2019.
4. **K. Thirumala**, A. C. Umarikar and T. Jain "An improved adaptive filtering approach for power quality analysis of time-varying waveforms," **Measurement**, vol. 131, pp. 677 - 685, January 2019.
5. **K. Thirumala**, M. S. Prasad, T. Jain, and A. C. Umarikar, "Tunable-Q Wavelet Transform and Dual Multiclass SVM for Online Automatic Detection of Power Quality Disturbances," **IEEE Trans. on Smart Grid**, vol. 9, no. 4, pp. 3018 - 3028, July 2018.
6. **K. Thirumala**, Shantanu, T. Jain, and A. C. Umarikar, "Visualizing Time-Varying Power Quality Indices using Generalized Empirical Wavelet Transform," **Electric Power Systems Research**, vol. 143, pp. 99-109, October 2016.
7. **K. Thirumala**, A. C. Umarikar, and T. Jain, "Estimation of Single-phase and Three-phase Power Quality Indices using Empirical Wavelet Transform," **IEEE Trans. on Power Delivery**, vol. 30, no. 1, pp. 445-454, February 2015.