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List of Publications (Last Five Years) :

1. Priyanka, E. B., **Thangavel, S.**, & Gao, X. Z. (2020). Review analysis on cloud computing based smart grid technology in the oil pipeline sensor network system. *Petroleum Research*.
2. **Thangavel, S.**, Maheswari, C., & Priyanka, E. B. (2020). Dynamic Modeling and Control Analysis of Industrial Electromechanical Servo Positioning System Using Machine Learning Technique.
3. Pratheep, V. G., Priyanka, E. B., **Thangavel, S.**, & Gomathi, K. (2020). Genetic Algorithm–Based Robust Controller for an Inverted Pendulum Using Model Order Reduction.
4. Priyanka, E. B., & **Thangavel, S.** (2020). Influence of Internet of Things (IoT) In Association of Data Mining Towards the Development Smart Cities-A Review Analysis. *Journal of Engineering Science & Technology Review*, 13(4).
5. Kaliyannan, G. V., Palanisamy, S. V., Priyanka, E. B., **Thangavel, S.**, Sivaraj, S., & Rathanasamy, R. (2020). Investigation on sol-gel based coatings application in energy sector–A review. *Materials Today: Proceedings*.
6. Pratheep, V. G., Priyanka, E. B., **Thangavel, S.**, Gousanal, J. J., Antony, P. B., & Kavin, E. D. (2020). Investigation and analysis of corn cob, coir pith with wood plastic composites. *Materials Today: Proceedings*.
7. Priyanka, E. B., **Thangavel, S.**, & Prabu, D. V. (2020). Fundamentals of Wireless Sensor Networks Using Machine Learning Approaches: Advancement in Big Data Analysis Using Hadoop for Oil Pipeline System With Scheduling Algorithm. In *Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks* (pp. 233-254). IGI Global.
8. Priyanka, E. B., & **Thangavel, S.** (2018). Advanced Enhancement Model of Bionics Fish Cilia MEMS Vector Hydrophone-Systematic Analysis Review. *International Journal of Applied Physics*, 3.
9. Maheswari, M., & **Thangavel, S.** (2018). Hardware realization of DVR with 27 level multi carrier PWM based MLI. *International Journal of Engineering & Technology*, 7(3.29), 26-30.
10. Priyanka, E. B., & **Thangavel, S.** (2018). Optimization of Large-Scale Solar Hot Water System Using Non-traditional Optimization Technique. *J Environ Sci Allied Res*, 2018, 05-14.
11. Jayakumar, K., & **Thangavel, S.** (2017). Industrial drive fault diagnosis through vibration analysis using wavelet transform. *Journal of Vibration and Control*, 23(12), 2003-2013.

12. Shanmugasundaram, N., & **Thangavel, S.** (2017). Modeling and Simulation Analysis of Power Cable a Three Level Inverter Fed Induction Motor Drive. *Journal of Computational and Theoretical Nanoscience*, 14(2), 972-978.
13. Surendiran, S., & **Thangavel, S.** (2016). Amalgamated Firefly Algorithm with Migration Effect of Biogeography Based Optimization for Proportional Integral and Derivative Controller Parameters Optimization in Two Area Interconnected Power System. *Research Journal of Applied Sciences, Engineering and Technology*, 13(4), 301-309.
14. Surendiran, S., **Thangavel, S.**, & Kannan, R. (2016, August). Optimization of PID controller parameters in interconnected power system using index curve based technique. In *2016 6th International Conference on Intelligent and Advanced Systems (ICIAS)* (pp. 1-4). IEEE.
15. Sankarganesh, R., & **Thangavel, S.** (2016). Design of a PV Module-Integrated Ćuk Converter Based Isolated Dual Boost Microinverter. *Journal of Testing and Evaluation*, 44(3), 1131-1147.
16. Geetha, V., & **Thangavel, S.** (2016). Performance analysis of direct torque controlled BLDC motor using fuzzy logic. *International Journal of Power Electronics and Drive Systems*, 7(1), 144.
17. Surendiran, S., & **Thangavel, S.** (2016). Time Varying Acceleration Coefficients With Dominant Social Component Particle Swarm Optimization For Interconnected Power System. *ARPJ Journal of Engineering and Applied Sciences*, 11(3), 1936-1946.
18. Jayakumar, K., & **Thangavel, S.** (2016). Probabilistic Wavelet Neural Network Based Vibration Analysis of Induction Motor Drive. *International Journal of Mechanical and Mechatronics Engineering*, 9(2), 432-438.
19. Balasreedharan, S. S., & **Thangavel, S.** (2016, January). An adaptive fault identification scheme for DC microgrid using event based classification. In *2016 3rd International Conference on Advanced Computing and Communication Systems (ICACCS)* (Vol. 1, pp. 1-7). IEEE.
20. Naveen, P., Gomathi, K., Senthilkumar, A., & **Thangavel, S.** (2016). Sitting posture health monitoring for scoliosis patients using capacitive micro accelerometer. *Наносистемы: физика, химия, математика*, 7(3).
21. Jayakumar, K., & **Thangavel, S.** (2015). Vibration Analysis of Industrial Drive for Broken Bearing Detection Using Probabilistic Wavelet Neural Network. *International Journal of Power Electronics and Drive Systems*, 5(4), 541.
22. Sivanesan, P., & **Thangavel, S.** (2015). HMM based resource allocation and fuzzy based rate adaptation technique for MANET. *Optik*, 126(3), 331-336.
23. Jayakumar, K., & **Thangavel, S.** (2015). A Real Time Data Acquisition and Vibration Analysis through Wavelet Transform for Fault Detection of Industrial Drives. *Research Journal of Applied Sciences, Engineering and Technology*, 9(2), 122-128.

24. Thiruvankadam, M., **Thangavel, S.**, Paramasivam, S., & Govarthanan, R. (2015). Evaluation Of Dc-Dc Power Converters For 3.5 Kw Micro-Butt Welding Applications. *International Journal Of Applied Engineering Research*, 10(11), 28923-28933.
25. Yayakumar, K., **Thangavel, S.**, & Elango, M. K. (2015). Backpropagation Algorithm for Bearing Fault Detection of Induction Motor Drive Using Wavelet Packet Decomposition. *International Journal of Applied Engineering Research*, 10(10), 26191-26208.
26. Sagayaraj, R., & **Thangavel, S.** (2015). Convergence Parameter Analysis for Different Metaheuristic Methods Control Constant Estimation and it's Tradeoff Inference.
27. Thiruvankadam, M., **Thangavel, S.**, & Paramasivam, S. (2015). Simulation and Practical Analysis on Power Factor Correction Techniques for Welding Applications. In *Applied Mechanics and Materials* (Vol. 785, pp. 198-204). Trans Tech Publications Ltd.
28. Karthikeyan, V. V., **Thangavel, S.**, & Sasikala, R. (2015). Design and Analysis of Three Phase Four Wire Shunt Active Filter with Neural Network Controller for Different Loading Conditions. In *Power Electronics and Renewable Energy Systems* (pp. 1027-1035). Springer, New Delhi.
29. Maheswari, M., **Thangavel, S.**, Kumar, R. S., & Vivekanandan, C. (2015). Power Quality Improvement Using Multilevel Inverter Based Dynamic Voltage Restorer with PI Controller. In *Power Electronics and Renewable Energy Systems* (pp. 721-729). Springer, New Delhi.
30. Arunkumar, S., & **Thangavel, S.** (2015). A review paper on torque ripple reduction in brushless DC motor drives with different multilevel inverter topology. *TELKOMNIKA Indonesian Journal of Electrical Engineering*, 13(1), 65-75.