

## RESEARCH PUBLICATIONS/BOOKS PUBLISHED

- **Vaish, J.**, Tiwari, A.K., Siddiqui, K.M.: Optimization of micro grid with distributed energy resources using physics based meta heuristic techniques. IET Renew. Power Gener. 00, 1– 17 (2023). <https://doi.org/10.1049/rpg2.12699>. **(SCI INDEXED)**
- **J. Vaish**, S. S. Datta and k. Seethalekshmi, "Short-term Load Forecasting using Bootstrap Aggregation based Ensemble Method," 2021 7th International Conference on Electrical Energy Systems (ICEES), 2021, pp. 245-249, doi: 10.1109/ICEES51510.2021.9383755. **(SCOPUS INDEXED)**
- **J. Vaish**, S. S. Datta and K. Seethalekshmi, "Short Term Load Forecasting using ANN and Ensemble Models Considering Solar Irradiance," 2020 International Conference on Electrical and Electronics Engineering (ICE3), Gorakhpur, India, 2020, pp. 44-48, doi: 10.1109/ICE348803.2020.9122986. **(SCOPUS INDEXED)**
- **Vaish, J.**, Tiwari, A. K., & K., S. (2022). Empirical Mode Decomposition with Random Forest Model Based Short Term Load Forecasting. Distributed Generation & Alternative Energy Journal, 37(4), 1159–1190. <https://doi.org/10.13052/dgaej2156-3306.37411>. **(SCOPUS INDEXED)**
- Ravneet Kaur, **Jayati Vaish**, “A New Era in Electricity Production using Renewable Sources”, International Journal of Emerging Technology and Advanced Engineering Website: [www.ijetae.com](http://www.ijetae.com) (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 3, Issue 2, February 2013).
- **Jayati Vaish**, Ravneet Kaur, “Integrating GRID Computing Technology in Modifying Modern Power System”, IJCST Vol. 4, Issue Spl - 2, April - June 2013 ISSN: 0976-8491 (Online) | ISSN: 2229-4333 (Print).
- **J. Vaish**, K. M. Siddiqui, Z. Maheshwari, A. Kumar and S. Shrivastava, "Day Ahead Load Forecasting using Random Forest method with meteorological variables," 2023 IEEE Conference on Technologies for Sustainability (SusTech), Portland, OR, USA, 2023, pp. 239-244, doi: 10.1109/SusTech57309.2023.10129542. **(SCOPUS INDEXED)**
- **Jayati Vaish**, Anil Kumar Tiwari, Seethalekshmi Kaimal, “Multi-objective optimization of distributed energy resources based microgrid using random forest model”, Vol. 13, No. 1,

February 2024, pp. 67~75, ISSN: 2302-9285, DOI: 10.11591/eei.v13i1.7087. (**SCOPUS INDEXED**)

- Verma, S.K., Tiwari, U.R., Rau, U., Siddiqui, K.M., Srivastava, S., **Vaish, J.** (2024). Feminine Protection Wearable System Based on IoT. In: Malik, H., Mishra, S., Sood, Y.R., Iqbal, A., Ustun, T.S. (eds) Renewable Power for Sustainable Growth. ICRP 2023. Lecture Notes in Electrical Engineering, vol 1086. Springer, Singapore. [https://doi.org/10.1007/978-981-99-6749-0\\_61](https://doi.org/10.1007/978-981-99-6749-0_61). (**SCOPUS INDEXED**)
- **VAISH J**, Tiwari A K, K. S. Cost Optimization and Battery Sizing of Grid-Connected Microgrid with Distributed Energy Resources Using Random Forest Technique. IJEEE 2023; 19 (4) :2924-2924, <http://ijeee.iust.ac.ir/article-1-2924-en.html>. (**SCOPUS INDEXED**)
- **Vaish, J.**, Tiwari, A.K., Kaimal, S., “ Multi-objective optimization of distributed energy resources based microgrid using random forest model”, Bulletin of Electrical Engineering and Informatics, 2024, 13(1), pp. 67–75. (**SCOPUS INDEXED**)
- **S. Shrivastava**, A. Tariq, K. Verma and A. Kushwaha, "Advancements in Monitoring and Controlling of Hybrid Grid," 2022 2nd International Conference on Power Electronics & IoT Applications in Renewable Energy and its Control (PARC), Mathura, India, 2022, pp. 1-6, doi: 10.1109/PARC52418.2022.9726593.
- **Sandhya Shrivastava**, Anam Tariq, Kirti Verma, Ankit Kushwaha, “Advancements in Monitoring and Controlling of Energy Grid - A Review “A Book chapter in Nova publication. ISBN:978-1-6654-3215-3.2022.
- Abhishek Srivastava, **Sandhya Shrivastava**, Anil Kumar, Vipin Kumar, “Coal Mine Safety Monitoring and Alerting”, 2nd IEEE International ASAINCON, ISBN:978-1-6654-6851-0, Vol.2, 2022. <https://ieeexplore.ieee.org/document/9908737>.
- *Samresh Pratap, Vineet Kumar, Sudeep Chaudhry, Sandhya Shrivastava*, “Smart Highway and Green Energy Resources using IOT”, **Vol. 8 Issue. EPRA International Journal of Multidisciplinary Research (IJMR), 5 May-2022.** <https://eprajournals.com/IJMR/article/7025>.
- Manvendra Singh, Priyanka Singh, Rajanikant Shukla, **Sandhya Shrivastava**, 2022, A Review on Advancement in Automatic Overhead Water Tank Cleaner, International Journal of Engineering Research & Technology (IJERT) Volume 11, Issue 01 (January 2022).

- **Sandhya Gour (Shrivastava)**, Dr. Bharti Dwivedi, “Feeder Renovation in Electric Power system for Reduction of Transmission and Distribution Losses”, International Journal of Advanced Research in Computer Science & Technology (IJARCST), Vol. 1 Issue 1 Oct-Nov 2013.
- **Amit Kumar**, “Regulating voltage of Isolated Shield wire for tapping power from HVAC transmission line using IVACE to feed small load” Madhav Institute of technology & Science, Gwalior, TEQIP-II/Elect/IIIEE-14/42(22 nd Feb 2014).
- **Amit Kumar**, et.al., “Automatic Power Management System by Integration of Conventional and Non-Conventional energy Resources”, 4 th International Conference on Recent Trends in computer science and Technology (ICRTCST-2021), 11-12 Feb-2022, R.V.S. College of Engineering and Technology, Jamshedpur.
- **Amit Kumar**, et. al., “Monitoring of Driverless Metro Train using ARDUNIO UNO”, in I-manager’s Journal on Instrumentation & Control Engineering, Volume 10, January-June 2022.
- **Amit Kumar**, et.al., “Vehicle pollution control system using IOT” in IRJMETS, Volume 4, Issue 05 May 2022, e-ISSN:2582-5208
- **Amit Kumar**, et.al., “IOT based prison break monitoring and alerting system” in IRJMETS, paper ID “IRJEMTS40600298317” Volume 4, Issue 05 May 2022, e-ISSN:2582-5208
- **Amit Kumar**, et.al., “Automatic Shuttling and Monitoring of Driverless metro Train”, in IRJMETS, paper ID “IRJEMTS40500199457” Volume 4, Issue 05 May 2022, e-ISSN:2582-5208.
- **Amit Kumar**, et.al., “Renovation in Transmission and Distribution Systems” Sustainable Cities and Society, Elsevier. (Communicated)

## **BOOKS PUBLISHED**

- Jayati Vaish, Sandhya Shrivastava, Sneha K., “Solar Tree with Charge Monitoring System Using IOT”, Lambert Academic Publications, ISBN:978-620-5-49120-1.
- Sandhya Shrivastava, Amit Kumar, Jayati Vaish, “Smart Vehicle Control Technology”, Lambert Academic Publications, ISBN:978-620-6-73733-9.
- Sandhya Shrivastava; Anam Tariq; Kirti Verma; Ankit Kushwaha “IOT based Monitoring and Controlling of Energy in domestic Load” LAMBERT Publication 2022.ISBN: 976-620-548838-6.