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SPECIALIZATION:

- Alternate Fuels
- I C Engines
- Thermal Engineering



EDUCATION:

- Bachelors – B.E (Mechanical) Institute of Road and Transport Technology, Erode – 1994
- Masters –M.E (Thermal) Anna University, Chennai – 2008
- PhD – Pondicherry (Central) University, Chennai – 2021

PUBLICATIONS:

2022-2023 (Journal Articles/Conference proceedings)

1. Loganathan, P., A. A. Arivalagar, **V. Nadanakumar**, R. Christu Paul, and J. Godwin John. "Study on microstructure, mechanical and wear behavior of AA7075/hBN composites fabricated via liquid metallurgy." *Materials Today: Proceedings* (2023).
2. Ramaian, C.P., **V.Nadanakumar**., Dhanraj, J.A., Selvaraju, N., Anaimuthu, S. and Solomon, J.M.,. An explicit revelation on swarm robotics and its optimization techniques. In *AIP Conference Proceedings* (Vol. 2690, No. 1). (2023)
3. Ramaian, Christu Paul, **Nadanakumar Vinayagam**, Kuppan Chetty Ramanathan, Joshuva Arockia Dhanraj, Nandakumar Selvaraju, Jenoris Muthiya Solomon, and Shridhar Anaimuthu. "A critical evaluation on design and development of smart dust sensor for mechatronics applications." In *AIP Conference Proceedings*, vol. 2690, no. 1. (2023).
4. **Vinayagam Nadanakumar**, Christu Paul Ramaian, Joshuva Arockia Dhanraj, Jenoris Muthiya Solomon, Shridhar Anaimuthu, and Nandakumar Selvaraju. "A multilayer perceptron approach for condition monitoring of automobile suspension system through vibration signal." In *AIP Conference Proceedings*, vol. 2690, no. 1. (2023).
5. Banu, J. Faritha, Rupali Atul Mahajan, U. Sakthi, Vinay Kumar Nassa, D. Lakshmi, and **V. Nadanakumar**. "Artificial intelligence with attention based BiLSTM for energy storage system in hybrid renewable energy sources." *Sustainable Energy Technologies and Assessments* 52 (2022): 102334.
6. Hariram, V., A. Saravanan, **V. Nadanakumar**, M. Vinoth Kumar, M. Balachandar, J. Godwin John, S. Seralathan, and K. L. Vasudev. "Optimized Grapeseed Biodiesel Production and its Effect on the CI engines Combustion Characteristics at Variable Compression Ratios." *International Journal of Vehicle Structures & Systems (IJVSS)* 14, no. 2 (2022).
7. Hariram, V., Hussain Said Al Riyami, **V. Nadanakumar**, J. Godwin John, R. Christu Paul, R. S. Nakandhrakumar, and P. Rameshkumar. "Influence of Al₂O₃ Nanoparticles Additives in R134a Refrigerant for Vapour Compression Refrigeration System." *International Journal of Vehicle Structures & Systems* 14, no. 6 (2022): 801-806.

8. Seralathan, S., K. Sandeep, Z. H. Ejaz, S. Sufiyan, V. Hariram, R. C. Paul, and V. **Nadanakumar**. "Simulation of Liquid Fuel Combustion of a Rocket Engine." *International Journal of Vehicle Structures & Systems* 14, no. 6 (2022): 820-825.
9. Solomon, Jenoris Muthiya, Mohankumar Subramaniam, Joshuva Arockia Dhanraj, **Nadanakumar Vinayagam**, Christu Paul Ramaian, Nandakumar Seelvaraju, and A. Bachmann. "A Low-Cost Selective Catalytic Reduction System for Diesel Engine Oxides of Nitrogen Control." In *Technology Innovation in Mechanical Engineering*, pp. 251-259. Springer, Singapore, 2022.
10. Solomon, Jenoris Muthiya, Mohankumar Subramaniam, C. Dinesh Kumar, Joshuva Arockia Dhanraj, **Nadanakumar Vinayagam**, Christu Paul Ramaian, and A. V. Sivabalan. "Experimental Assessment on Performance and Emission Characteristics of (Tamanu) Seed Oil in Direct Injection Diesel Engines." In *Technology Innovation in Mechanical Engineering*, pp. 283-292. Springer, Singapore, 2022.
11. Subramaniam, Mohankumar, Jenoris Muthiya Solomon, Joshuva Arockia Dhanraj, Christu Paul Ramaian, **Nadanakumar Vinayagam**, Nandakumar Selvaraju, and A. Ramana Johannes Bachmann. "Performance Enhancement of Jatropha Methyl Ester by Utilizing Oxygen Enrichment in Diesel Engine." In *Technology Innovation in Mechanical Engineering*, pp. 261-271. Springer, Singapore, 2022.
12. Subramaniam, Mohankumar, Jenoris Muthiya Solomon, **Nadanakumar Vinayagam**, Nandakumar Selvaraju, Joshuva Arockia Dhanraj, Christu Paul Ramaian, and A. V. Sivabalan. "Experimental Study on Utilization of Karanja Bio Oil in Diesel Engines and Performance Enhancement by Oxygenated Additives." In *Technology Innovation in Mechanical Engineering*, pp. 273-282. Springer, Singapore, 2022.
13. Arockia Dhanraj, Joshuva, Meenakshi Prabhakar, Christu Paul Ramaian, Mohankumar Subramaniam, Jenoris Muthiya Solomon, and **Nadanakumar Vinayagam**. "Increasing the Wind Energy Production by Identifying the State of Wind Turbine Blade." In *Technology Innovation in Mechanical Engineering*, pp. 139-148. Springer, Singapore, 2022.
14. Arockia Dhanraj, Joshuva, Jenoris Muthiya Solomon, Mohankumar Subramaniam, Meenakshi Prabhakar, Christu Paul Ramaian, Nandakumar Selvaraju, and **Nadanakumar Vinayagam**. "Misfire Prediction on Spark Ignition Four-Stroke Engine Through Statistical Features Using Rough Set Theory Classifier." In *Technology Innovation in Mechanical Engineering*, pp. 129-138. Springer, Singapore, 2022.

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Google Scholar: <https://scholar.google.com/citations?hl=en&pli=1&user=ySIA4PAAAAAJ>

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