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LIST OF RECENT PUBLICATIONS

1. Suppandipillai, Jeyakumar; Kandasamy, Jayaraman; **Sivakumar, R**; Karaca, Mehmet; K, Karthik, "Numerical Investigations on the Hydrogen Jet Pressure Variations in a Strut based Scramjet Combustor, Aircraft Engineering and Aerospace Technology (Accepted for publication)
2. S. S. Bolbhat¹ , A. S. Bhosale¹ , G. Sakthivel, D. Saravanakumar , **R. Sivakumar** and Lakshmipathi J, Intelligent Obstacle Avoiding AGV Using Vector Field Histogram and Supervisory Control, IOP Publishing: Journal of Physics: Conference Series, 1716 (2021) 012030, doi:10.1088/1742-6596/1716/1/012030.
3. Manoj Srivatsn S, Sakthivel G, Saravanakumar D, Jegadeeshwaran R and **Sivakumar R**, Comparison of Dynamic Control Model of Autonomous Underwater Vehicle Guidance, Proceedings - 2020 IEEE International Symposium on Smart Electronic Systems, iSES 2020.
4. Alamelu Manghai T M, Jegadeeshwaran R Sakthivel G, Saravanakumar D, and **Sivakumar R**, Vibration Based Fault Detection in Hydraulic Brake System Using Artificial Immune Recognition System with Statistical Features, Proceedings - 2020 IEEE International Symposium on Smart Electronic Systems, iSES 2020.
5. Balaji Subramanian, Venugopal T, Feroskhan M, **Sivakumar R**, "Emission Characteristic of a Dual fuel Compression Ignition Engine Operating on Diesel + Hydrogen & Diesel + HHO gas with same Energy Share at Idling Condition", IOP Conf. Series: Earth and Environmental Science 573 (2020). doi:10.1088/1755-1315/573/1/012001
6. Harish R and **Sivakumar R**, "Turbulent thermal convection of nanofluids in cubical enclosure using two-phase mixture model", International Journal of Mechanical Sciences, 190, 2021. <https://doi.org/10.1016/j.ijmecsci.2020.106033> (SCIE – IF: 4.631)
7. Harish R and **Sivakumar R**, "Effects of nanoparticle dispersion on turbulent mixed convection flows in cubical enclosure considering Brownian motion and thermophoresis", *Powder Technology* (IF 4.142) Pub Date : 2020-10-01 , DOI: [10.1016/j.powtec.2020.09.054](https://doi.org/10.1016/j.powtec.2020.09.054) (SCIE – IF: 4.142)
8. Karthiyaini, **Sivakumar R** and Shanmuga Sundaram, Market Response Of Real Estate And Automotive Industry During Pandemic-A Transdisciplinary Approach, International Journal of Management (IJM) Volume 11, Issue 5, May 2020, pp. 764-769

9. Praveen Kumar, Ashish Kumar, Manshu Gupta, **R. SivaKumar** and T. Venugopal, "Methods to Improve the Spray Characteristics of n-Butanol by Visualization of Spray in a Port Injector", *International Journal of Recent Technology and Engineering (IJRTE)*. ISSN: 2277-3878, Volume-8 Issue-6, March 2020
10. Ganesh, **Sivakumar R** and G. Sakthivel, "FIXED DISPLACEMENT GEROTOR OIL PUMP (FDOP): A SURVEY", *International Journal of Ambient Energy*. <https://doi.org/10.1080/01430750.2020.1731708>. 1080/010750.2020.1731708
11. Alamelu Manghai, T.M., Jegadeeshwaran, R., Sakthivel, G., **Sivakumar, R.**, Saravana Kumar, D., Condition monitoring of hydraulic brake system using rough set theory and FUZZY rough nearest neighbor learning algorithms, *Proceedings - 2019 IEEE International Symposium on Smart Electronic Systems, iSES 2019*.
12. Naveen Kumar, P., Sakthivel, G., Jegadeeshwaran, R., **Sivakumar, R.**, Saravana Kumar, D., Vibration based IC engine fault diagnosis using tree family classifiers-a machine learning approach, *Proceedings - 2019 IEEE International Symposium on Smart Electronic Systems, iSES 2019*.
13. Supriya J. Magdum, Alokekumar Das, Vinayak Shetty, **Sivakumar R** and G. Sakthivel, "DOE study of the effect of various parameters on fuel tank sloshing using multiphysics CFD", *International Journal of Ambient Energy*, 2018 <https://doi.org/10.1080/01430750.2018.1451383>
14. B. I. Darshandeep, **R. Sivakumar**, G. Sakthivel, S. Subramaniam and Jussi Oksanen, "Design and analysis to analyse the heat transfer of a space heater for a boat", *International Journal of Ambient Energy*, 39(4), 414-423, 2018.
15. Govinda Anantha Padmanabha, Shravan Tata Ramalingasetty, Boobalan Vetrivel, Indrajit Mukherjee, Omkar .S.N, and **Sivakumar R**, "Computational Modelling of Musculoskeletal to predict the Human Response with Exoskeleton Suit", *International Journal of Biomechatronics and Biomedical Robotics*, 2017. (In press).
16. Sakthivel Gnaanseakaran, **Sivakumar R**, Saravanan N, and Bernard W Ikua, "A Hybrid Decision Support System to evaluate the Optimum Fuel Blend in IC Engine to enhance the Energy Efficiency and Energy Management", *Energy*, 140, 566-583, 2017. (Impact factor – 5.182)
17. Seetharaman S, Mahesh S V, Ganesh T and **Sivakumar R**, "Design and Experimental analysis of eliptor rotor", *Concurrent Advances in Mechanical Engineering*, 2(1), 12-17, 2016.
18. G. Darshan, S.K. Vijayasimha, **R. Sivakumar**, "3D Scanning Techniques Complements Predictive Engineering for Mold Flow Analysis", *Applied Mechanics and Materials*, 854, 65-71, 2016.
19. Gnanasekaran Sakthivel, **Sivakumar R.**, Mani Illangkumaran and Bernard W Ikua, "Selection of Optimum Fishoil Fuel Blend To Reduce The Greenhouse Gases Emissions In An Ic Engine - A Hybrid Multiple Criteria Decision Aid Approach", *International Journal of Green Energy*, 13(14), 1517-1533, July, 2016 (online). (Impact factor – 1.6)

20. Kosamana Bhaskara Rao, Rajesh Mavuri, and **R. Sivakumar**, "Flexible charging time and geography independent dual thermal cycle based energy storage", Progress in Industrial Ecology – An International Journal, 9(2), 191 – 199, 2015. (Impact factor – 0.475)
21. Rajesh Mavuri, Kosamana Bhaskara Rao and **R. Sivakumar**, "Thermodynamic analysis of different cycles for high-temperature concentrated solar power applications", Progress in Industrial Ecology – An International Journal, 9(2), 144 – 152, 2015. (Impact factor – 0.475)
22. Pavan and **Sivakumar R**, "CFD analysis of a circular tube fitted with RTSG", International Journal of Applied Engineering Research, ISSN 0973-4562, 10(68), 29 – 33, 2015. (Impact factor – 0.149)
23. Pavan, Sathyanarayanan, Rajesh Kumar R, N.C. Lenin and **Sivakumar R**, "Thermal Analysis of a 3 phase, 550 W Switched Reluctance Machine", International Journal of Applied Engineering Research, 10(66), 86-90, 2015. (Impact factor – 0.149)
24. Pavan, Sathyanarayanan N, Rajesh Kumar R, N.C. Lenin and **Sivakumar R**, "Thermal Investigation of Switched Reluctance Motor", International Journal of Electrical Engineering, ISSN 0974-2158, 8(2), 115-121, 2015.