

Agnel Charities

Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra

Paper/Journal Publications

Calendar Year 2021

International Journal

1. Badal Kudachi, **Nilesh Varkute**, Bipin Mashilkar, Srikant Guthula, Prabhav Jayaprakash, Alex Aaron, Simran Joy, “Experimental and Computational Study of Phase Change Material Based Shell and Tube Heat Exchanger for Energy Storage”, Materialstoday proceedings, Elsevier, 26/05/2021. <https://doi.org/10.1016/j.matpr.2021.05.295>.
2. **Nilesh Varkute**, Febin Francis, Salvius Kinny, Rishikesh Sawant, Nikhil Ravichandran, “Hybrid Cooling of Multijunction Concentrated Photovoltaic Cells” in IJMPE, Volume 5, Issue 7, Sept 2017, pp. 44 to 49. [IJMPE-IRAJ-DOIONLINE-8686](http://www.ijmpe.com/issue7-2017/ijmpe-iraj-doionline-8686)
3. Nilesh Varkute, Bipin B. Mashilkar, Pallavi Khaire and Kamlesh Sasane, “Numerical simulation of heat transfer augmentation in a rectangular solar air heater duct” in IRJET, Volume 3, Issue 11, November 2016, pp. 114 to 118. <https://www.irjet.net/archives/V3/i11/IRJET-V3I1117.pdf>
4. Nilesh Varkute, Akshay Chalke, Deepak Ailani, Ritesh Gogade and Ajay Babaria, “Design and fabrication of a Peltier operated portable air cooling system” in IJERT, Volume 3, Issue 3, March 2016, pp. 1801 to 1805. <https://www.irjet.net/archives/V3/i3/IRJET-V3I3377.pdf>
5. Nilesh Varkute, Bipin Mashilkar, Sanjay Rukhande, Akshay Vengal, Vishal Madhavi, Mayur Karche and Amar Ingle, “Experimentation and Testing of an OP-AMP operated Solar Tracking Mechanism” in IRJET, Volume 2, Issue 7, October 2015, pp. 781 to 784. <https://www.irjet.net/archives/V2/i7/IRJET-V2I7120.pdf>
6. Nilesh Varkute, Aditya Vaishampayan, Ninad Sonje, Prasad Patil and Kunal Attarde, “Numerical Investigation of performance of Brake Shoe Liner to Fabricate and test Modified Design” in IJERT, Volume 4, Issue 4, April 2015, pp. 400 to 404. <http://dx.doi.org/10.17577/IJERTV4IS040682>
7. Bipin B. Mashilkar and Nilesh Varkute “Numerical Investigation of Heat Transfer

Augmentation in a Rectangular Solar Air Heater Duct” in IJERT, Volume 3, Issue 10, October 2014, pp. 1245 to 1248. <https://www.ijert.org/research/numerical-investigation-of-heat-transfer-augmentation-in-a-rectangular-solar-air-heater-duct-IJERTV3IS100373.pdf>

8. Kiran Prakashrao Deshmukh, Manisha Jayprakash Dhanokar and Nilesh Sonu Varkute, T.R.B. Sanjai Kumar, “Numerical simulation of enhancement of heat exchanger in a tube with and without rod helical tape swirl generators” in IJMET, Volume 5, Issue 6, June 2014, pp. 01 to 13. Journal Impact Factor: 7.5377.
9. Nilesh S. Varkute and R. S. Maurya, “CFD Simulation in Township Planning – A Case Study” has indexed in ANED (American National Engineering Database) with an article ANED-DDL (Digital Data link) number [03.3005/033065072](#) (www.aned.us).
10. Nilesh S. Varkute and R. S. Maurya, “CFD Simulation in Township Planning – A Case Study” in International Journal of Computational Engineering Research (IJCER), Volume 3, Issue 3, March 2013, pp. 65 to 72. https://ijceronline.com/papers/Vol3_issue3/N033065072.pdf

International Conference

11. Nilesh Varkute, Badal Kudachi, Shardul Kachare, Chintan Mange, Jigar Gandhi, Harish Menon, “Thermal Analysis of Earth Tube Heat Exchanger Using Experimental Setup and Simulation”, 2nd International Congress on Advances in Mechanical and system Engineering (CAMSE – 2021), National Institute of Technology Jalandhar, Panjab, INDIA, 17th July, 2021 – 19th July, 2021.
12. Nilesh Varkute, Badal Kudachi, Bipin Mashilkar, Priyan Kamble, Anmol Rane, Aishwarya Harad, Glen Rebello, “Experimental and Numerical Investigation of Latent Heat Based Energy Storage System Using Nano Enhanced Phase Change Material”, 2nd International Congress on Advances in Mechanical and system Engineering (CAMSE – 2021), National Institute of Technology Jalandhar, Punjab, INDIA, 17th July, 2021 – 19th July, 2021.
13. Badal Kudachi, Nilesh Varkute, Bipin Mashilkar, Srikant Guthula, Prabhav Jayaprakash, Alex Aaron, Simran Joy, “Experimental and Computational Study of Phase Change Material Based Shell and Tube Heat Exchanger for Energy Storage”, 2nd International Mechanical Engineering Congress (IMEC – 2019), National Institute of Technology Tiruchirappalli, Tamil Nadu, INDIA, 29th November,

2019 – 1st December, 2019.

14. Pallavi Khaire, Libin Kaleeckal, Abrar Upadhye, Nilesh Varkute, Girish Dalvi, “Condition monitoring of centrifugal pump using vibration analysis and artificial intelligence”, Souvenir cum book of abstract in association with springer 6th international conference on production and industrial engineering, National Institute of Technology Jalandhar, Panjab, INDIA, 8-10 June, 2019.
15. Nilesh Varkute, Deepak Devasagayam, Atul Shenoy, Simon Fernandes, Pranav Chaulkar, Samuel Cerejo, Aashish Yadav, “Design, fabrication and testing of cooling system for Multi-junction CPV cells”, International Conference on Nascent Technologies in Engineering (ICNTE), FCRIT, Vashi, Navi Mumbai, INDIA, 4-5 January, 2019. Proceedings were published in IEEE explore digital library, DOI: 10.1109/ICNTE44896.2019.8945867.
16. Pallavi Khaire, Nathan Dmello, Ronald Joseph, Justin Jolly, Nilesh Varkute, “Generation of Energy from Tides”, International Conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST 2018), National Institute of Technology Tiruchirappalli, INDIA, 27 April, 2018.
17. Nilesh Varkute, Bipin Mashilkar, Nishaank Parab, Yogesh Lad, Rajat Pandita and Abhishek Markandeya, “Design and fabrication of fully automatic solar tracking system”, Proceedings of International conference on emerging trends in engineering innovation and technology management, volume - II, Himachal Pradesh, INDIA, 16-18 December, 2017.
18. Nilesh Varkute, Febin Fransis, Salvius Kinny, Rishikesh Sawant and Nikhil Ramchandran, “Hybrid Cooling of Multijunction concentrated Photovoltaic Cell”, Proceedings of WRFER International conference, Pune, INDIA, 7 May, 2017.