

Research Publication

1. Piyoosha, A. K., & Ghoshb, S. K. (2023). Satellite image-based spectral indices for assessing linkage of land use/land cover change and land surface temperature. *Modeling and Mitigation Measures for Managing Extreme Hydrometeorological Events Under a Warming Climate*, 57.
2. Tiwari, A., Mishra, A. K., Gaur, P., & Gupta, S. K. (2023). Wildlife Navigation Alley Structure. *Engineering Research Transcripts*, 6, 49-58.
3. Tiwari, A., Biswas, R., Kumar Prajapati, V., Chaudhary, U., Verma, A., & Haider, A. (2023). Designing and estimating an amphibious house using lightweight materials to mitigate the devastating effects of floods. *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2023.06.358>
4. Bano, S., Jaiswal, G., Kumar, R., Tiwari, A., & Karthikeyan, M. (2023). Experimental study on the crack repair techniques of concrete structures: A case study. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1273, No. 1, p. 012006). IOP Publishing.
5. Piyoosh, A. K., & Ghosh, S. K. (2022). Analysis of land use land cover change using a new and existing spectral indices and its impact on normalized land surface temperature.
6. V. D. Singh, S. Rehan Ali and A. Kant Piyoosh, "A Review on the Relationship between LULC and LST using Geospatial Technologies," *2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART)*, Moradabad, India, 2022, pp. 472-476, doi: 10.1109/SMART55829.2022.10047156.
7. Arjit Verma, P. Pal, and Y.K. Gupta (2022). Soil-Structure Interaction Effects on Seismic Response of Multi-storey Building Published by *Alwaha Scientific Publishing Services (ASPS Journals)*, Vol. 01, No. 06, December.
8. Arjit Verma, P. Pal, and Y.K. Gupta (2022). Soil-Structure Interaction effects on Seismic Response of Multi-storey Building. *12th Structural Engineering Convention, A Biennial International Event, Under the Aegis of Indian Association for Structural Engineering (SEC 2020), Jaipur, Rajasthan, India.*
9. Pandey, A., Jaiswal, S., & Chauhan, V. B. (2021). Numerical Studies on the Behavior of Slope Reinforced with Soil Nails. *Local Site Effects and Ground Failures: Select Proceedings of 7th ICORAGEE 2020*, 117, 217.
10. Singh N., Ahmad J, S Mir S, (2021), Self-healing in concrete using ureolytic species of bacteria and yeast, *IOP Conf. Series: Mater. Sci. Eng.* (Vol. 1116, p. 012154)
11. Srivastava, R. K., Chandra, V., Awasthi, U., & Tiwari, A. (2021). a Study on the impact of carbon nanotubes on the properties of concrete. *Int. J. Civil Eng. Technol.(Ijciet)*, 12(9), 32-39.
12. Pandey, A., & Chauhan, V. B. (2020, February). Evaluation of pull-out capacity of helical anchors in clay using finite element analysis. In *Geo-Congress 2020* (pp. 60-68). Reston, VA: American Society of Civil Engineers.
13. Pandey, A., & Chauhan, V. B. (2020). Numerical analysis for the evaluation of pull-out capacity of helical anchors in sand. In *Sustainable Thoughts in Ground Improvement and Soil Stability: Proceedings of the 3rd GeoMEast International Congress and Exhibition, Egypt 2019 on Sustainable Civil Infrastructures–The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE)* (pp. 207-218). Springer International Publishing.
14. Kumari, P., Gupta, P., Piyoosh, A. K., Tyagi, B., & Kumar, P. (2020). COVID 19 : Impact on mental health of graduating and post graduating students. *Journal of Statistics and Management Systems*, 24(1), 67–79. <https://doi.org/10.1080/09720510.2020.1833449>

15. Arjit Verma, P. Pal, and Y.K. Gupta (2020). Analysis of Multi-storey Building with and without Soil-Structure Interaction. *2nd ASCE India Conference on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE 2020), Kolkata, West Bengal, India.* (ISBN: 978-93-5396-500-6)
16. Piyoosh, A. K., & Ghosh, S. K. (2019). Identification and analysis of recent temporal temperature trends for Dehradun, Uttarakhand, India. *Meteorology and Atmospheric Physics*, 131, 863-882.
17. Arjit Verma, P. Pal, and Y.K. Gupta (2019). Non-linear Dynamic Analysis of Multi-storey Building Subjected to Earthquake. *Springer International Joint Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE-2019), Indore, Madhya Pradesh, India.*
18. Tiwari, A., & Shukla, A. K. (2020). Role of Meteorology in Seasonal Variation of Air Pollution. *Advances in Civil Engineering and Infrastructural Development: Select Proceedings of ICRAEID 2019*, 87, 457.
19. Kumar, A., Tiwari, A., Alam, T., & Shukla, A. K. (2019). Carbon footprint of municipal solid waste: a case study of Lucknow. *Int J Tech Innov Mod Eng Sci*, 5.
20. Tiwari, A., Alam, T., Kumar, A., & Shukla, A. K. (2019). Control of odour, volatile organic compounds (VOCs) & toxic gases through biofiltration—an overview. *Int J Tech Innov Mod Eng Sci*, 5, 1-6.
21. Piyoosh, A. K., & Ghosh, S. K. (2018). Development of a modified bare soil and urban index for Landsat 8 satellite data. *Geocarto International*, 33(4), 423-442.
22. Arjit Verma, P. Pal, and Y.K. Gupta (2018). Soil-Structure Interaction for Building Structures: A Review. *8th International Joint Conference on Advances in Engineering and Technology (AET-2017), Trivandrum, Kerala, India.* (ISBN:978-81-936117-0-8)
23. Singh N., (2018). Assessment of Ureolytic Bacteria for Self-Healing Concrete. *Int J Recent Sci Res.* (Vol. 9 (3), pp. 25350-25355)
24. Singh N., (2018). Construction of Road under Bridge by Cut and Cover Method. *IJMTER.*(Vol. 5(4), pp. 106-113)
25. Piyoosh, A. K., & Ghosh, S. K. (2017). Semi-automatic mapping of anthropogenic impervious surfaces in an urban/suburban area using Landsat 8 satellite data. *GIScience & Remote Sensing*, 54(4), 471-494.
26. Piyoosh, A. K., & Ghosh, S. K. (2017). Effect of autocorrelation on temporal trends in rainfall in a valley region at the foothills of Indian Himalayas. *Stochastic environmental research and risk assessment*, 31, 2075-2096.
27. Piyoosh, A. K., & Ghosh, S. K. (2016). A comparative assessment of temperature data from different sources for Dehradun, Uttarakhand, India. *Journal of Meteorological Research*, 30(6), 1019-1032.
28. Aditya Verma, Abhishek Kumar, Ashish Mishra and Arjit Verma (2016). *Utilization of Pond Ash as Partial Replacement of Cement Concrete Mix* "International Research Journal of Engineering and Technology (IRJET), Vol. 03, Issue 03, March. (e-ISSN : 2395-0056)
29. Non-Linear Dynamic Analysis of a Multi-storey Building Subjected to Earthquake, Lecture Notes in Civil Engineering, Vol.77, Recent Trends in Civil Engineering, Chapter-18. (Springer Nature, ISBN: 978 -981-15-5194-9, Scopus Indexed)
30. Vijay Kumar, Anupam Rawat and Arjit Verma (2015). Vibration Analysis of Soil Due to Train Movement. *50th Indian Geo-Technical Conference (IGC), Pune, Maharashtra India.*

31. Arjit Verma, Aditya Verma and Ashish Mishra (2015). Parametric Study of Train Induced Vibration near MNNIT. *International Conference on Geo- Engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015), MNNIT Allahabad, India.*