Dr. Rajdip Paul

Assistant Professor

Department of Civil Engineering

Personal Information:

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Web of Science ID: AAC-3258-2021

Google Scholar Link: https://scholar.google.com/citations?user=U3fe630AAAAJ&hl=en

Scopus ID: 57411056500

Journal Papers: 13

Conference Papers: 05

Sponsored Projects: 0

Book and Book Chapters: 0

Doctoral Students: 0

Brief Profile: Analytical educator experienced in university environments. Knowledgeable about balancing research with classroom and administrative responsibilities. Expert in Structural Engineering dedicated to expanding collective knowledge base through recent technological trends and fresh, interesting studies. Published in multiple journals and sought-after speaker at international conferences.

Educational Qualifications:

- **Doctor of Philosophy** in Engineering, IIEST, Shibpur, 2021.
- **Master of Engineering** in Structural Engineering, Bengal Engineering and Science University, Shibpur, 2012.
- **Bachelor of Technology** in Civil Engineering, West Bengal University of Technology, 2008.

Courses Taught:

PhD: Research Publications and Ethics

PG: Urban Transport System Planning, Operations Research

UG-PG Integrated: Fluid Mechanics, Structural Analysis-I, Building Construction, Fluid Mechanics Laboratory

Additional Roles/ Responsibility:

Articles Published:

1. Sanyal, P., Paul, R., Dalui, S. K. 2024. Machine Learning-Based Wind-Induced Response Analysis in Rectangular Building Models with Limbs. The Structural Design of Tall and Special Building, Accepted for publication.
2. Das, A., Paul, R. and Saha, S. 2024. Strength Optimization of Nanocomposite Cementitious Materials Using Nanoscale Modifications. Periodica Polytechnica Civil Engineering, Published online, https://doi.org/10.3311/PPci.22706
3. Paul, R., Dalui, S. K. 2024. Pressure Power Spectra of a 'Z' Shaped in Plan Tall Building Under Transient Wind Environment. KSCE Journal of Civil Engineering, 28(5): May. https://doi.org/10.1007/s12205-024-1255-5
4. Das, A., Paul, R. and Dalui, S. K. 2023. Shape optimization of a corner-recessed square tall building to reduce mean wind pressure using a Multi-Objective Genetic Algorithm. The Structural Design of Tall and Special Building, 32(17):1-27. https://doi.org/10.1002/tal.2054
5. Das, A., Paul, R., Dalui, S. K. 2023. Shape optimization of corner recessed square tall building employing surrogate modelling. Wind and Structures, An International Journal, 36(2):105-120. https://doi.org/10.12989/was.2023.36.2.105
6. Paul, R., Dalui, S. K. 2022. Wind Induced Peak Dynamic Responses of 'Z' shaped tall building. Journal of The Institution of Engineers (India): Series A, 103(3):891-904. https://doi.org/10.1007/s40030-022-00647-z
7. Paul, R., Dalui, S. K. 2022. Aerodynamic Shape Optimization of High-Rise rectangular Building with Wings. Wind and Structures, An International Journal, 34(3):259-274. https://doi.org/10.12989/was.2022.34.3.259
8. Paul, R., Dalui, S. K. 2021. Optimization of alongwind and crosswind force coefficients on a tall building with horizontal limbs using surrogate modelling. The Structural Design of Tall and Special Building, 30(4):1-20. https://doi.org/10.1002/tal.1830
9. Paul, R., Dalui, S. K. 2020. Shape optimization to reduce wind pressure on the surfaces of a rectangular building with horizontal limbs. Periodica Polytechnica Civil Engineering, 65(1):134-149. https://doi.org/10.3311/PPci.16888
10. Paul, R., Dalui, S. K. 2020. Prognosis of Wind-Tempted Mean Pressure Coefficients of Cross-Shaped Tall Buildings Using Artificial Neural Network. Periodica Polytechnica Civil Engineering, 64(4):1124-1143. https://doi.org/10.3311/PPci.16311
11. Paul, R., Dalui, S. K. 2016. Wind Effects on 'Z' Plan Shaped Tall Building: A Case Study. International Journal of Advanced Structural Engineering, 8(3):319-335. https://doi.org/10.1007/s40091-016-0134-9
12. Bhattacharya, P.G., Ghosh, T., Paul, R. and Das, A. 2016. A Comparative Study of Flexural Fatigue Responses of Lime-Laterite and Lime-Fibre-Laterite Soil Mixtures at Different Densities. Jordan Journal of Civil Engineering, 10(4):489-500.
13. Bhattacharya, P.G., Ghosh, T. and Paul, R. 2014. Assessment of Suitability of Lime-Laterite Soils in the Construction of Road Base, Indian Roads Congress (IRC), 42(11):21-25.
14. Paul, R., Dalui, S. K. 2020. Assessment of peak pressures and gust factors on surfaces of 'Z' shaped tall building under wind. International Conference on Recent Advances in Computational and Experimental Mechanics (ICRACEM 2020), IIT Kharagpur, India. ISBN 978-93-5416-440-8 ISBN 978-93-5416-440-8 (eBook).
15. Paul, R., Dalui, S. K. 2019. Wind Effects on Cross Plan Shaped Tall Building. 64th Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM Congress-2019), IIT Bhubaneshwar, India.
16. Paul, R., Dalui, S. K. 2018. Wind Effects on 'L' Plan Shaped Tall Building: A Case Study. Advances in Construction Materials, and Structures (ACMS-2018), IIT Roorkee, India.
17. Dalui, S. K., Paul, R. 2016. The Effects of Position of Limbs on a Rectangular Plan Shaped Tall Building under Wind. The 2016 World Congress on Advances of Civil, Environmental, and Materials Research, ICC Jeju, Jeju Island, Korea,ISBN 978-89-89693-44-4.

18. Choudhury, S., Ghosh, T., Paul, R. Tudu, B. and Mukherjee, I. 2012. Transition from Fossil Fuel to Non-Conventional Sources-A Solution for the Future in India. Society, Politics and Climate Change organized by Khandwala College, IIFM, USIEF held at Nagindas Knandwala College, Malad (West) Mumbai.

Book and Book Chapters:

Program Organised:

1. On-Line 5-Days Faculty Development Program (FDP) on "Institutional Quality Enhancement through NAAC" organized by the Internal Quality Assurance Cell (IQAC) of Hooghly Engineering & Technology College, 2022.
2. Intellectual Property Awareness/Training Programme under National Intellectual Property Awareness Mission in collaboration with Intellectual Property Office, India, 2022.

Awards and Honours:

Any Other Information: