

Dr. Sujatha A(Selection Grade)

Assistant Professor

Educational
Qualification M. Sc., Ph. D

Experience Teaching: 20 Years Research: 03years

Area of Interest Linear Algebra, Fuzzy Reliability theory

Date of Joining
RVCE 13-08-2007

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Projects:

I Number of UG project guided: -

I Number of PG project guided: -

No of Doctorate students:

Completed - 0 Guiding - 1

Publications:

I National Journals - 0

I National Conferences - 1

I International Journals - 9

I International Conferences - 4

I Book Chapter Published - 1

I Patent Granted - 0

List of International Journal Publications:

1. Patil, S. R., **Sujatha, A.**, Sinha, M. K., Deshmukh, M. A., & Thenmozhi, S. (2024). Predicting and forecasting building energy performance using RSM and ANN. Asian Journal of Civil Engineering, 1-7. <https://doi.org/10.1007/s42107-023-00765-4> (**Q-4, Scopus**).
2. **Sujatha A**, Suguna R, et al., "Traffic Congestion Detection and Alternative Route Provision Using Machine Learning and IoT-Based Surveillance", Journal of Machine and Computing, vol.3, no.4, pp. 475-485, October 2023. doi: 10.53759/7669/jmc202303039. (**Q-2, Scopus**).
3. **Sujatha A.**, Govindaraju L., Shivakumar N., Devaraj V. (2021) Fuzzy Knowledge Based System for Suitability of Soils in Airfield Applications, Civil Engineering Journal, vol.7, No 1, pp.140-152, <https://doi.org/10.28991/cej-2021-03091643> (**Q-1, Scopus and Web of Science**).
4. **Sujatha A**, Govindaraju L., and Shivakumar N, "Application Of Fuzzy Rule Based System For Highway Research Board Classification Of Soils," Int. J. Fuzzy Log. Syst., vol. 10, no. 2, pp. 1–14, 2020, <https://doi: 10.5121/ijfls.2020.10201> (**Google Scholar**).
5. Koshariya, Ashok Kumar, **Sujatha A**, Sandeep, Venu. (2022) "An Enhanced Machine learning Approach for identifying Paddy Crop Blast Disease Management using Fuzzy Logic", IJFANS, vol. 11(8), 1152-1163 ISSN PRINT 2319 1775 Online 2320 7876 (UGC CARE Listed (Group -I) Journal).
6. **Sujatha A**, V Jagannath & Satish kumar, (2014) "Solutions to problem of plates with variable rigidity using singularity functions", International journal of Innovative research in Science, Engineering and Technology, vol. 3(4), 1-14, ISSN: 2319 – 875.
7. **Sujatha A**, V Jagannath & Selvi (2013), "A new direction for the stability analysis of variable stiffness plates using Unit step function – some case studies", Indian Research Journal, vol. 1(3) ISSN: 2347-7695.
8. **Sujatha A**, V Jagannath & Selvi (2013), "A New Direction for the Stability Analysis of Columns Using Unit Step Function- Some Case Studies", International Journal of Mathematics and Computer Applications Research (IJMCAR), vol. 3(4), 63-78, ISSN 2249-6955.
9. **Sujatha A**, V Jagannath & Satish kumar (2013), "Solutions to plate problem with constant rigidity using singularity functions", International Journal of Science Engineering and Advance Technology, vol. 11(4), 58-64, ISSN 2321-6905.

Publications in refereed International Conference proceeding

1. **Sujatha. A.**, M. Bore, A. Deepak, K. Mayuri, A. K. Khan and R. Raj, "AI-Driven Traffic Control Systems For Smart Cities In Civil Engineering," 2023 6th International Conference on Contemporary

Computing and Informatics (IC3I), **IEEE 2023**, pp. 1589-1594, doi: 10.1109/IC3I59117.2023.10397650.

2. **Sujatha A.**, Govindaraju L., Shivakumar N., Devaraj V. (2021) A Fuzzy Based Approach for Indian Standard Classification of Soils. In: Mai C.K., Reddy A.B., Raju K.S. (eds) *Machine Learning Technologies and Applications. Algorithms for Intelligent Systems*. Springer, Singapore. https://doi.org/10.1007/978-981-33-4046-6_6 (**Scopus**)

3. **Sujatha A.**, Govindaraju L., Shivakumar N., Devaraj V. (2020) Fuzzy Expert System for Engineering Classification of Soils. In: Latha Gali M., P. R.R. (eds) *Geotechnical Characterization and Modelling. Lecture Notes in Civil Engineering*, vol 85. Springer, Singapore. https://doi.org/10.1007/978-981-15-6086-6_7 (**Scopus**)

4. Priya, R. A., Kumar, S. S., Bhupathi, H. P., **Sujatha, A.**, Palav, M. R., & Murali, A. (2025). Optimization charging infrastructure for electric vehicle adoption in urban environment. In *Hybrid and Advanced Technologies* (pp. 351-360). Taylor & Francis Group, CRC Press. DOI: 10.1201/9781003559139-51.

Book Chapter

Swarup, D. J., Vidyasagar, S., Kalyanasundaram, V., **Sujatha, A.**, Vijayakumar, A., & Sudhakar, M. (2025). AI-Powered Smart Traffic Management in Intelligent Transportation Systems. In K. Bellam, K. Nagappan, N. Sankaran, S. Chowdhury, & D. Perakovic (Eds.), *Urban Mobility and Challenges of Intelligent Transportation Systems* (pp. 51-70). IGI Global Scientific Publishing. <https://doi.org/10.4018/979-8-3693-7984-4.ch004>