

Shwetha Baliga

Shwetha Baliga, Assistant Professor

	B.E (Telecommunication Engineering),
Educational Qualification	M.Tech (Digital Electronics and Communication).
	Ph.D (Pursuing)(Autonomous and Connected vehicles)
Experience	Teaching: 10 Years.
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Publications:

A.International Journals: 06

1. Shwetha Baliga, Uttara Kumari, Vishnu Sai Jayam, Venkata Hanush Kanishetty, Mallikarjuna BP, Nishkal Nayak, "'A Hybrid Fast-LIO2 and SC ALOAM SLAM Algorithm for Autonomous Vehicles" , SMARTCOM - 2024 ,ISSN: 2367-3370, DOI:[10.1007/978-981-97-1323-3_11](https://doi.org/10.1007/978-981-97-1323-3_11), In book: Smart Trends in Computing and Communications (pp.133-143).
2. Shwetha Baliga,Vijay Koundinya, "A Review on Single Sign on as an Authentication Technique",IRJET,Volume 7, Issue 6, June 2020.
3. Shwetha Baliga,Kirthi SK,Kavya,"Human Stress level detection and monitoring system",IRJET, Volume 7 Issue 5 May 2020,ISSN:2395-0056.
4. Vishwas A Deshpande, Shwetha Baliga,"Visualizing BGP Updates through Ladder Diagrams" IRJET,Volume 7, Issue 5, May 2020.
5. Shwetha Baliga,Syeda Sarah Azmi, Shreekara C S, "Music Generation using Bidirectional Recurrent Neural Nets",IRJET,Volume 7, Issue 5, May 2020.
6. Shwetha Baliga,Mallikarjuna Hadli, Nikith K Kotari, "Design and Development of Smart food grain management system", IJLTES, Volume 7 Issue 1 June 2019, ISSN: 2321-0605.

B. International Conferences: 05

1. Shwetha Baliga, Uttara Kumari, et.al “Seamless Integration of Fast LIO2 and SOPHUS for advanced autonomous driving applications DOI: [10.1109/ICVTTS62812.2024.10763938](https://doi.org/10.1109/ICVTTS62812.2024.10763938). IEEE International Conference on Vehicular Technology and Transportation System (ICVTTS) 2024 , 27-28 Sep, Bangalore-INDIA
2. Shwetha Baliga, Jyothirmor Karijee, Rahul V Rao, “Optimizing Latency in Secure Reliable Transport (SRT) Protocol through Machine Learning for Video Streaming Applications” ,IEEE CONECCT, July 2024,DOI: [10.1109/CONECCT62155.2024.10677250](https://doi.org/10.1109/CONECCT62155.2024.10677250)
3. Shwetha Baliga, Nafisa ali, “Emotion Recognition and Stress Reduction Based on Electroencephalograph (EEG) Signals validated by Machine Learning Algorithms”, 2023 International Conference on Smart Systems for applications in Electrical Sciences (ICSSES),DOI: [10.1109/ICSSES58299.2023](https://doi.org/10.1109/ICSSES58299.2023), 7-8 July 2023.
4. Shwetha Baliga, Pavan Santhosh, “Vehicle Driver Modeling and Simulation Based on Controller Approach”, Journal of University of Shanghai for Science and Technology,2021, Volume 23 - Issue 6 – 2021, D.O.I - 10.51201/JUSST/21/05274.
5. Shwetha Baliga, Rekha,Gorochna “ Implementation of Non-Invasive Blood Glucose Monitoring System”, International Journal of Engineering Research in Electronics and Communication Engineering, Volume 9, Issue 8, August 2022.
6. Kiran Kumar Hk, K Subrahmanya, Kavana R, Shwetha Baliga,"An Approach To Basic GUI-Enabled CI/CD Pipeline With Static Analysis Tool", 'International Journal of Engineering and Advanced Technology (IJEAT)' at Volume-10 Issue-5, June 2021.

C. Book chapters:03

1. Shwetha Baliga, Harshith, Dhruthi Upadhyay, Apoorv Sadale, “Advanced application of generative AI and natural language processing models: advancing Capabilities safely in an Uncertain world”,IGI Global, [DOI: 10.4018/979-8-3693-0502-7.ch004](https://doi.org/10.4018/979-8-3693-0502-7.ch004)
2. Shwetha Baliga, Pushkar Kulkarni ,”Recent advances in Ubiquitous sustainable healthcare systems”,<https://doi.org/10.1201/9781003487647> , Taylor’s and Francis CRC Press, Book: Internet of Things enabled Machine Learning for Biomedical Applications.
3. Shwetha Baliga, Nandana Pillai, Rakshita basarkod et al, “Applications of Machine Learning to the impact of IoT in Biomedical Applications”. <https://doi.org/10.1201/9781003487647> ,Taylor’s and Francis CRC Press,Book: Internet of Things enabled Machine Learning for Biomedical Applications

