

Research Paper Presentation Report

'Implementation of Li-Fi based Multi-Hop Ad- Hoc Network for Inter Vehicle Communication' was published and presented at the 3rd IEEE Technically Co-Sponsored Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2019) at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai on 4th and 5th January 2019. The paper was authored by Jeneel Kachhadiya, Urmil Joshi, Viraj Savaliya and Parth Thakar, 4 final year students of Electronics and Telecommunication Engineering branch. The paper focused on communication between the vehicles using light fidelity (Li-Fi). Light is used as a medium of signal propagation as it is readily available in remote as well as in city areas. The Multi-Hop network eliminates the drawback of transmission range as signal is transmitted from one vehicle to another. The information about traffic congestions, accidents, vehicle approach are timely communicated thereby ensuring timely control of the car. This shall prove useful in reducing the accidents and cases of reckless driving on the streets. The scope of this paper holds prospects in further research with introduction of self-driving cars.

The 2 day conference saw a great number of papers presented by students, professors and researchers in various fields and domains. **The paper was awarded the 'Best Paper' in Electronics and Telecommunication category from amongst 50+ papers presented.** Urmil Joshi and Jeneel Kachhadiya were also felicitated with 'Young Researcher' award for the same work.



Congratulations to all the 4 students!