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Webinar organized by Civil Engineering Department 2019-2020

A Webinar on ‘Autonomous Vehicle Lanes For A Seamless Transition To Future Mobility’, on 9th July 2020

A webinar on ‘Autonomous Vehicle Lanes For A Seamless Transition To Future Mobility’ was organized by the Department of Civil Engineering, MVJCE, on 9th July 2020 at 2:00 pm. The webinar was an online live event through Microsoft Teams. There were around 155 participants in the webinar, including students (UG and PG) and faculty members of MVJCE and various other Institutions, Research Scholars and people from Industrial Organizations.

The objective of the session was to provide information about autonomous vehicle lanes for uninterrupted movement. An Autonomous Vehicle (AV), also called self-driven or driverless, is based on robotic technology and offers the possibility of fundamentally changing transportation. Equipping cars and light vehicles with this technology will likely reduce crashes, energy consumption and pollution, and reduce congestion. They may also alter patterns of land use, and may create new markets and economic opportunities. This webinar focused on the impact of autonomous vehicles, and their implications in transportation planning. It provided information on how autonomous vehicles will affect travel activities, and impact planning decisions such as optimal road, parking and public transit supply.

The webinar started with an Introductory video on MVJ College of Engineering. Mrs. Apoorva Kiran (Assistant Professor, Department of Civil Engineering) was the Master of Ceremony who delivered the welcome address, welcoming the Guest Speaker Dr. Shantanu Chakraborty (Post-Doctoral Researcher under Research Centre for Integrated Transport Innovation in School of Civil and Environmental Engineering, University of New South Wales, Sydney, Australia). She also welcomed Dr. P Mahabaleswarappa (Principal, MVJCE), Prof. Muralidhara R (Head of Civil Engineering Department, MVJCE) and all the participants. The

opening remark was given by the Principal, Dr. P Mahabaleswarappa. Prof. Muralidhara R introduced the Guest Speaker to the gathering through a brief introduction about him.

The session was then taken over by the Guest Speaker Dr. Shantanu Chakraborty. He started by explaining the role of transportation and growth trends in road traffic in the Greater Sydney region. He spoke about the transport demand and supply and its necessity. He then focused on Autonomous Vehicles and how they can improve traffic infrastructure with maximum benefits, impacting the network performance.

He then presented his research work, elaborating on system optimum DTA for network design and deployment of AV lanes with endogenous demand. He concluded by predicting that interaction of AVs and Legacy Vehicles are inevitable in the near future, and it is crucial to find out the critical locations of a network where resource allocation will reap maximum system level benefits. The session culminated with a Q/A session, where Research Scholars, faculty and students of MVJCE and other Institutions clarified their doubts. The participants expressed their gratitude and appreciation to Dr. Shantanu Chakraborty for an enlightening session. Overall, the session was very informative.

The vote of thanks was proposed by Mrs. Anupama (Assistant Professor, Department of Civil Engineering), extending gratitude to the esteemed Guest Speaker for his presence and for offering an excellent session, to the Management of MVJCE for providing an opportunity to be part of such events, to the Principal Dr. P Mahabaleswarappa and Vice Principal Prof. Brindha M for their constant support and encouragement, to Prof. Muralidhara R, Head of Civil Engineering Department, for his valuable suggestions and cooperation, to Mrs. Apoorva Kiran and Ms. Swetha M V (Assistant Professor, Department of Civil Engineering) for their efforts in organizing the webinar. She also thanked the faculty, Research Scholars and Industrialists from various Institutions/Organizations for their participation. Last but not the least, she thanked the IT helpdesk for the technical support.

Outcome of the Event:

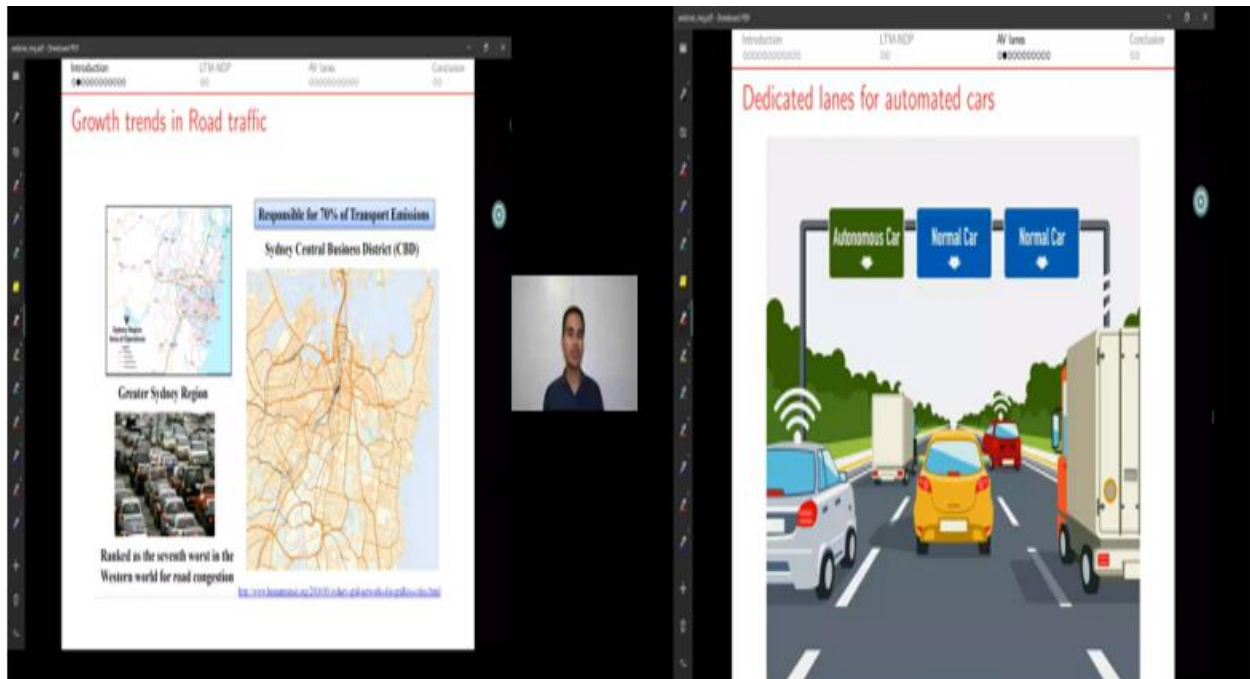
The session helped one to understand the transformative technology of automated vehicles that has a great potential for reducing traffic accidents, enhancing quality of life, and improving the efficiency of transportation systems. It gave an overview of the positive effects of AVs compared to present experiences. It gave insights on future research directions.



Principal Dr. P Mahabaleswarappa addressing the gathering during a webinar on 'Autonomous Vehicle Lanes For A Seamless Transition To Future Mobility' organized by the Department of Civil Engineering, MVJCE on 9th July 2020 through Microsoft Teams.



Prof. Muralidhara R, Head of Civil Engineering Department, MVJCE, introducing the Guest Speaker to the gathering through Microsoft Teams.



Guest Speaker Dr. Shantanu Chakraborty delivering his lecture on ‘Autonomous Vehicle Lanes For A Seamless Transition To Future Mobility’ through Microsoft Teams.



Prof. Apoorva Kiran delivering the welcome address in the webinar.



Prof. Anupama delivering the vote of thanks in the webinar.