Committee on Traffic Flow Theory and Characteristics
(TRB ACP50)

ACC Webinar Series

We are proud to announce our 2nd webinar in the ACC Webinar Series:

"Understanding the behavior of commercial ACC systems and their impact on traffic flow"

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Senior Research Scientist
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Thursday, Aug 5th, 2021 --- 11:00 AM (EDT)
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ABSTRACT
The penetration rate of Adaptive Cruise Control (ACC) systems on commercial vehicles is constantly increasing. ACC systems attract a lot of research interest. They are considered a proxy to future autonomous longitudinal vehicle movement, which is expected to bring significant changes in future transport networks in sustainability, traffic flow, safety, and other dimensions. JRC conducted several experimental car-following campaigns to understand how commercial ACC systems operate and their impact on motorway traffic. This talk is about the behavior of car-platoons equipped with ACC, the similarities and differences with human drivers and the essential role of connectivity.

BIOGRAPHY

Michalis Makridis is senior researcher at the Traffic Engineering group of the IVT institute, ETH Zürich. Prior to joining ETH, he was the scientific responsible of the Traffic Modeling Group at the JRC and visiting researcher in LICIT, Lyon. He is interested in Modeling and Simulation of Traffic Flow, Traffic Estimation and Management, Vehicle Dynamics and Driving Behavior, Connected and Automated Vehicles and Intelligent Transportation Systems. He is Associate Editor in IEEE Access journal and Guest Editor in Sensors and Energies journals. In 2020, he won the Best Simulation Development Paper Award from the TRB Traffic Simulation Committee (ACP80).