MEng Project Description – Human Factors and Applied Statistics Laboratory

Project topic: Investigating Driver Interaction with Automated Vehicles
Faculty supervisor: Prof. Birsen Donmez
Number of students needed: 2

Project description:
Many consumer vehicles now have driving automation features that can control the vehicle's steering, acceleration, and braking. However, these features are only meant for assistance and they are not perfect. Drivers still need to pay attention to the roadway at all times and be ready to take over full control of the vehicle when necessary. Unfortunately, current driving automation systems have been associated with problems like increased driver distraction and inattention, which have contributed to multiple fatal crashes in automated vehicles.

The Human Factors and Applied Statistics Laboratory (HFASt Lab) is looking for **two** Master of Engineering students to help collect and analyze data from a driving simulator study. The purpose of the study is to investigate how drivers use driving automation systems in our simulator and inform the design of training and interfaces that enhance the safety of automated vehicles.

Required qualifications:
- Valid driver's license
- Strong written and oral communication skills

Interested students should contact Prof. Birsen Donmez (donmez@mie.utoronto.ca) or Chelsea DeGuzman (deguzman@mie.utoronto.ca) by **January 31, 2023**.