

Hands-on workshop on Euro NCAP Test Suite – Virtual Validation of AD/ADAS features by Testing as per Euro NCAP Standards

12 December 2024 | 9.00 A.M onwards

Duration : 4 Hours

About the Session

Scenario generation, simulation, testing, and report generation as per specification are critical requirements for Automated driving feature validation. This workshop will provide hands on experience and detailed information on Euro NCAP® test suite meant for validation and report generation as per Euro NCAP specification for AD/ ADAS features (AEB, ELK, LKA). The test suite includes Euro NCAP specification and scenario generation from the specification, sensors, controller under test, and vehicle dynamics. The objective of test suite is to provide robust closed loop validation framework to test AD/ADAS controller, the output from suite are test reports and test score as per Euro NCAP specifications.

Here is the brief outline for hands-on workshop with timing break up

Topic	Timing
Automatically generate specifications and scenarios for Euro NCAP tests	40 mins
Create variants from Euro NCAP seed scenario, by parametrizing, actors,	30 mins
Visualize or export the generated variants to the ASAM OpenSCENARIO® file format.	20 mins
Break	15 mins
Discussion on test automation framework- Sensors, scenarios, controller, and vehicle dynamics	25 mins
Iterative testing followed by report and score generation as per Euro NCAP specific metrics.	25 mins
Overview and discussion on creating scenarios from recorded vehicle data	40 mins