# ISO TC 204/WG14 - **ISO AWI PAS 19486**

## Intelligent transport systems – Acceleration Control for Pedal Error (ACPE) – Performance Requirements and Test Procedures

#### Take aways:

- VRUs as target obstacles will be developed for next step.

#### Normative reference to

**ISO 19206-1**, Road vehicles — Test devices for target vehicles, vulnerable road users and other obstacles, for assessment of active safety functions —Part 1: Requirements for passenger vehicle rear-end targets

**ISO 19206-3**, Road vehicles — Test devices for target vehicles, vulnerable road users and other obstacles, for assessment of active safety functions —Part 3: Requirements for passenger vehicle 3D targets

Acceleration Control for Pedal Error per definition, a system with an obstacle in front or behind the stationary subject vehicle

#### Test

- The target placed 0,8 m to 1,0 m away from the test vehicle (specified distance by the manufacturer).
- Accelerator shall be pressed from zero to full stroke within 0,25 sec
- Virtual collision speed case that the system is inactivated shall be measured
- Collision speed  $V_C$  m/s with target is less than 70 % against the virtual collision speed, the test satisfies the pass criteria.

### Working Draft in Review

## ISO/TC 22/SC 33/WG 3- **ISO/AWI PAS 21779 Road vehicles - Test method to evaluate the performance of Acceleration Control for Pedal Error**

#### Take aways:

**Relates to ISO AWI PAS 19486** 

### **Testing**

Much more intensive requirements for test preparation and application of the test, (e.g. to prepare the brakes, documentation, measurements)

To demonstrate the "collision avoidability" a relative metric is in discussion:

Rate of speed change =	Speed w/o the system – Speed with the system
	Speed w/o the system

Recorded description	Rate of speed change	
Avoidance	1.0	
(Value of the rate)	Between 0.3 and 1.0	
No effects	Less than 0.3	

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