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GB/T 45312-2025

Intelligent and Connected Vehicles—Operational Design Condition for Automated Driving System 智能网联汽车 自动驾驶系统设计运行条件

(English Translation)

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Intelligent and Connected Vehicles—Operational Design Condition for Automated Driving System

1 SCOPE

This document specifies the general requirements and the set of basic elements of the operational design condition for automated driving system.

This document applies to the vehicles of categories M and N equipped with the automated driving system, while this document may be used as a reference for the vehicles of other categories or equipped with other levels of driving automation system.

2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 5768.2 Road traffic signs and markings—Part 2: Road traffic signs
GB 5768.3 Road traffic signs and markings - Part 3: Road traffic markings

GB/T 40429-2021 Taxonomy of driving automation for vehicles

GB/T 44721-2024 Intelligent and connected vehicle—General technical requirements for

automated driving system

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions given in GB/T 40429-2021 and the following apply.

3.1 automated driving system (ADS)

a system comprising the hardware and software to achieve the automated driving function

Note: ADS is the driving automation system of Level 3 or above specified in GB/T 40429-2021.

[Source: GB/T 44373-2024, 5.3]

3.2 operational design condition (ODC)

a collective name of various conditions defined when a driving automation system is designed and which are applicable to its functional operation, including operational design domain, vehicle status, driver and passenger status, and other essential conditions

3.3 operational design domain (ODD)

external environment conditions defined when a driving automation system is designed and which are applicable to its functional operation

Note: Typical external environment conditions include road, traffic, weather, light conditions, etc.

4 ABBREVIATIONS

For the purpose of this document, the following abbreviations apply.

ADS: Automated Driving System

BDS: BeiDou Navigation Satellite System

DDT: Dynamic Driving Task

GALILEO: Galileo Navigation Satellite System GLONASS: Global Navigation Satellite System

GPS: Global Positioning System
ODC: Operational Design Condition

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