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**Artificial intelligence - Technical requirements for embodied  
intelligence data generation platform**

人工智能 具身智能数据生成平台技术要求

**(English Translation)**

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### 1 Scope

This document provides a reference framework for an embodied intelligent data generation platform, specifying the technical requirements for the engine layer, generation layer, and application layer.

This document applies to the design, development, and testing of embodied intelligent data generation platforms.

### 2 Normative references

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

GB/T 41867-2022 Terminology for Information Technology and Artificial Intelligence

GB/T 45288.1-2025 Large Model of Artificial Intelligence Part 1: General Requirements

### 3 Terms and Definitions

The terms and definitions defined in GB/T 41867-2022 and GB/T 45288.1-2025, as well as the following terms and definitions, apply to this document.

### 3.1 Data generation

Embodied intelligence is the process of converting descriptive information about a robot, its task requirements, and its task environment into the required data.

Examples. Data production from scratch, data synthesis based on existing data, and data augmentation.

**Note 1:** Typical techniques for generating embodied intelligence data include simulation, modeling, or algorithms.

**Note 2:** Typical uses of embodied intelligence data generation include training, validating, or testing models for perception, planning, and execution.

### 3.2 Data synthesis

The process of constructing synthetic data based on existing data.

Example: The process of interpolating time or space to obtain data, such as interpolating joint data at 10 frames/s to obtain joint data at 30 frames/s.

**Note:** Referring to section 3.5 of GB/T 40099-2021, synthetic data refers to data obtained by interpolation between multiple data points of the same existing variable.

### 3.3 Data augmentation

[Source: ISO /IEC 22989:2022, 3.2.3]

### 3.4 Data generation engine

Internal software that provides the technical capabilities to support data generation.

Example: Data generation engine based on simulators or generative artificial intelligence.

### 3.5 Scene

Embodied Intelligence is a data set of geometric, visual, and layout attributes of multiple objects and the spaces they constitute.

**Note 1:** 3D scenes are a common form of scene presentation, namely scene model materials expressed using 3D information such as mesh models and 3DGS.