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**Artificial intelligence - Technical requirements of
heterogeneous AI accelerating processor collaborative training
in intelligent computing cluster
(English Translation)**

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Table of Contents

Preface	
1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Abbreviations	1
5 Overall Architecture	2
6.Functional Requirements of the Unified Heterogeneous Computing Network Collaborative Management and Scheduling Platform	3
7.Functional and Performance Requirements of the Unified Heterogeneous Artificial Intelligence Accelerator Communication Library	4

Foreword

This document is a standard or guiding technical document.

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1.Structure and Drafting Rules of Standardization Documents".

Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Information Technology Standardization Technical Committee (SAC/TC28).

1 Scope

This document establishes the overall architecture for hybrid training of heterogeneous AI accelerators in intelligent computing clusters, and specifies the functions and performance of hybrid training.

Require.

This document applies to heterogeneous intelligent computing clusters composed of AI accelerators from different vendors. It also applies to AI accelerators from the same vendor but different models.

This is a reference for heterogeneous intelligent computing clusters built with speed generators.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

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.

This document.

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

3 Terms and Definitions

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

3.1

Note: In this document, without causing misunderstanding, the term "AI accelerator" will be used as a shorthand for "accelerator".

3.2

AI accelerators from different manufacturers.

3.3

In heterogeneous intelligent computing clusters, heterogeneous artificial intelligence accelerators are used to collaboratively complete the training task of the same model.

4 Abbreviations

The following abbreviations apply to this document.

DP. Data Parallel

EP. Expert Parallel

GDR. GPU Direct Remote Memory Access (GPUDirectRDMA)

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