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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/Z 43202.2-2023

**Robotics - Application of GB/T 36530 - Part 2: Application
guidelines**

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Foreword

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.

This document is Part 2 of GB /Z 43202 "Applications of Robots GB/T 36530". GB /Z 43202 has released the following

part.

---Part 2. Application Guide.

This document is equivalent to ISO /T R23482-2.2019 "Application of ISO 13482 for Robots Part 2. Application Guide". arts

The file type was adjusted from ISO 's technical report to my country's national standardization guiding technical document.

This document has been made with the following minimal editorial changes.

a) In the standard name, replace "ISO 13482" with GB/T 36530 to facilitate coordination with existing standardization documents;

b) "

Introduction

GB/T 36530-2018 (ISO 13482.2016) is the first safety standard formulated in the field of service robots. It allows humans and machines to

Intimate interactions between robots, including contact between humans and robots.

Although GB/T 36530-2018 follows industrial robots and machinery standards

established principles and practices, but additional guidance can facilitate rapid and successful use by manufacturers and other stakeholders

GB/T 36530-2018.

This document clarifies which robots are personal assistant robots and how personal assistant robots differ from robots in other fields such as medical machines.

robot or industrial robot). This document also provides further steps in the risk assessment and risk reduction process for personal assistant robots.

guidance. This document contains examples of risk assessments for different types of personal assistant robots and can be used for GB/T 36530-2018

Provide users with a reference when conducting risk assessments on personal assistant robots.

GB /Z 43202 is designed to guide the implementation of the personal assistant robot safety standard GB/T 36530-2018 and consists of two parts.

---Part 1; Safety-related test methods. Aimed at providing test methods to verify compliance with the requirements of GB/T 36530-2018.

---Part 2.Application Guide. Intended to provide additional guidance to users with limited experience in risk assessment and risk reduction.

GB/T 43202.2-2023/ISO /T R23482-2.2019

Application of GB/T 36530 for robots

Part 2.Application Guide

1 Scope

This document provides guidance on the use of ISO 13482 and is intended to facilitate the design of personal assistant robots in compliance with ISO 13482 and provide risk assessment

Additional guidance is provided for users with limited experience in assessment and risk reduction. This document provides an overview of the new terminology and safety requirements introduced in ISO 13482.

Instructions and guidance are provided to allow personal assistant robots to achieve close human-computer interaction and human-computer contact in applications. Personal assistant robots

Including mobile servant robots, body assist robots and manned robots. This document considers ISO 13482 in all service robots

applications, and includes relevant examples.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations

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

GB/T 12643-2013 Robots and robotic equipment vocabulary (ISO 8373:2012, IDT)

GB/T 36530-2018 Safety requirements for robots and robotic equipment personal assistant robots (ISO 13482:2014, IDT)

3 Terms and definitions

The following terms and definitions as defined in GB/T 12643-2013 and GB/T 36530-2018 apply to this document.

3.1

service robot

In addition to industrial automation applications, robots can perform useful tasks for humans or equipment.

[Source: GB/T 12643-2013, 2.10, modified --- comments deleted.]

3.2

personal assistant robot

Service robots (3.1) that perform activities to improve the quality of human life, excluding medical applications.

[Source: GB/T 36530-2018, 3.13, modified --- comments deleted.]

3.3

industrial robot

An automatically controlled, reprogrammable, multi-purpose manipulator that can program three or more axes. It can be fixed or

Mobile, used in industrial automation.

[Source: ISO 10218-1:2011, 3.10, modified --- comments deleted.]

3.4

mobile service robot

A personal assistant robot (3.2) capable of moving and performing required tasks by interacting with humans, such as carrying items or exchanging information.

[Source. GB/T 36530-2018,3.14]

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