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

**GB/T 18978.210-2024**

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**Ergonomics of human-system interaction - Part 210:  
Human-centred design for interactive systems**

人-系统交互工效学 第210部分：以人为中心的交互系统设计

**(English Translation)**

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## Table of Contents

|                                                                                     |  |
|-------------------------------------------------------------------------------------|--|
| Preface                                                                             |  |
| Introduction                                                                        |  |
| 1 Scope                                                                             |  |
| 2 Normative references                                                              |  |
| 3 Terms and Definitions                                                             |  |
| 4 Theoretical basis for adopting human-centered design                              |  |
| 5 Human-centered design principles                                                  |  |
| 5.1 Overview                                                                        |  |
| 5.2 Design should be based on a clear understanding of users, tasks and environment |  |
| 5.3 Users participate in the design and development process                         |  |
| 5.4 Driving and Improving Design through User-Centered Evaluation                   |  |
| 5.5 The design process requires iteration                                           |  |
| 5.6 Design needs to solve the user experience of the whole process                  |  |
| 5.7 The design team has multidisciplinary skills and perspectives                   |  |
| 6 Planning Human-Centered Design                                                    |  |
| 6.1 General Principles                                                              |  |
| 6.2 Responsibilities                                                                |  |
| 6.3 Planning Contents                                                               |  |
| 6.4 Integration with project planning                                               |  |
| 6.5 Time and Resources                                                              |  |
| 7 Human-centered design activities                                                  |  |
| 7.1 Overview                                                                        |  |
| 7.2 Understand and clarify usage context                                            |  |
| 7.2.1 Overview                                                                      |  |
| 7.2.2 Use Context Description                                                       |  |
| 7.2.3 Sufficient Details to Support Design                                          |  |
| 7.2.4 Designing for clear usage scenarios                                           |  |
| 7.3 Clarify User Needs                                                              |  |
| 7.3.1 General Principles                                                            |  |
| 7.3.2 Identifying the needs of users and other stakeholders                         |  |
| 7.3.3 Extracting User Requirements                                                  |  |
| 7.3.4 Solving Tradeoffs Between User Requirements                                   |  |

- 7.3.5 Ensuring the Quality of User Requirements Specifications
- 7.4 Propose a design plan
  - 7.4.1 General Principles
  - 7.4.2 Design user tasks, user-system interactions, and user interfaces to meet user needs while taking into account user experience Requirements
  - 7.4.3 Concrete design plan
  - 7.4.4 Modifying Designs Based on User-Centered Evaluation and Feedback
  - 7.4.5 Handing over the design plan to the person responsible for implementation
- 7.5 Evaluation Design
  - 7.5.1 General Principles
  - 7.5.2 Performing User-Centered Evaluations
  - 7.5.3 User-centered evaluation method
  - 7.5.4 User-based testing
  - 7.5.5 Inspection-based evaluation
  - 7.5.6 Long-term monitoring
- 8 Sustainability and Human-Centered Design
- 9 Compliance
- Appendix A (Informative) Overview of ISO 9241 series
- Appendix B (Informative) Example of a process for assessing suitability and conformity
  - B.1 Overview
  - B.2 How to use this list
  - B.3 Copy List
- References

## Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

This document is part 210 of GB/T 18978. GB/T 18978 has been published in the following parts.

- Ergonomic requirements for office work using visual display terminals (VDTs) Part 1: General;
- Ergonomic requirements for office work using visual display terminals (VDTs) Part 2:

Guidance on task requirements;

-- Ergonomic requirements for office work using visual display terminals (VDTs) Part 10: Dialogue principles;

-- Ergonomic requirements for office work using visual display terminals (VDTs) Part 12: Information presentation;

-- Ergonomic requirements for office use with visual display terminals (VDTs) Part 13: User guide;

-- Ergonomic requirements for office work using visual display terminals (VDTs) Part 16: Direct manipulation dialogue;

-- Ergonomics of human-system interaction Part 11: Usability. Definitions and concepts;

-- Ergonomics of human-system interaction Part 143: Forms;

-- Ergonomics of human-system interaction Part 151: Guidelines for Internet user interfaces;

-- Ergonomics of human-system interaction Part 210: Human-centered interactive system design;

-- Ergonomics of human-system interaction Part 300: Overview of requirements for electronic visual displays;

-- Ergonomics of human-system interaction Part 304: User performance test methods for electronic visual displays;

-- Ergonomics of human-system interaction Part 307: Analysis and compliance test methods for electronic visual displays;

-- Ergonomics of human-system interaction Part 400: Principles and requirements for physical input devices.

This document replaces GB/T 18976-2003 "Human-centered interactive system design process". Compared with GB/T 18976-2003, in addition to structural and editorial changes, the main technical changes are as follows.

--Changed the human-centered design principle (see Chapter 5, Chapter 5 of the 2003 edition);

-- Changed the role of iteration in the entire design process (not just evaluation) (see 5.5, 5.4 of the 2003 edition);

--Added a human-centered approach that can be used throughout the life cycle of the system (see 6.1, 6.5);

--Changed the design activities (see Chapter 7, Chapter 7 of the 2003 edition);

-- Changed Figure 1 (see 7.1, 7.1 of the 2003 edition) to facilitate classification;

--Added accessibility related content (see 7.1).

This document is equivalent to ISO 9241-210:2019 Ergonomics of human-system interaction Part 210: Human-centered interactive systems design".

## Introduction

GB/T 18978 ergonomics national standards correspond to ISO 9241 international standards and originally consisted of 17 parts.

This series of standards provides the ergonomic requirements for office work using visual display terminals. During the review of international standards, the ISO 9241 series of international standards the standard has been significantly revised to expand its scope, incorporate other relevant standards and make it more user-friendly. The general title of ISO 9241 is "Human-Systems the general title and scope of ISO 9241 and ISO/TC 159/SC 4 remain the same.

After the adjustment, the series of standards composed of multiple parts are numbered with "hundred", among which the 100 series is the software interface, the.200 series is Human-centered design, 300 series involves visual displays, 400 series involves physical input devices, etc. Others not included in the "Hundred" series the ISO 9241 series of standards still use the old numbering. For example, national standards that are equivalent to ISO 9241-11:2018 still use the old numbering.

GB/T 18978.11.

Corresponding to the ISO 9241 series of standards, the GB/T 18978 "Hundred" series of standards is planned to consist of the following series.

--100 Series. Software Ergonomics. The purpose is to identify processes and methods related to software ergonomics.

--200 Series. Human-Centered Design. The goal is to provide a human-centered design principle and Activities provide requirements and suggestions.

--300 Series. Displays and Display-Related Hardware. The purpose is to provide methods for the ergonomic design and evaluation of visual displays.

laws, compliance measures and guidelines.

--400 Series. Physical Input Devices. The purpose is to provide ergonomic design criteria, selection procedures, and testing for input and output devices.

and assessment methods.

--500 Series. Workspace. The purpose is to provide ergonomic principles and methods for the design of interactive system space environments.