

# ISO TC 159/SC4

## Ergonomics of Human-System Interaction

**Scope** Ergonomics standardization of the interaction between systems (often computer based) and the people who design, manufacture, use and maintain them. Areas of standardization include hardware ergonomics (including input, display and interactive devices, software ergonomics (including dialogue and interaction design) and human centred design processes and methods (including usability engineering and participative design methods).

**Chair** Thomas Stewart, UK

**Secretary** Jose Alcorta, BSI (UK)

**Participating Countries** (22)

**Observer Countries** (10)

### Working Groups

**WG 1 – Fundamentals of controls and signalling methods**

**Convenor:** Professor Sadao Horino, Japan

**WG 2 – Visual display requirements**

**Convenor:** Floris van Nes, Netherlands

**WG 3 – Control, workplace and environmental requirements**

**Convenor:** Ahmet Cakir, Germany

**WG 5 – Software ergonomics and human computer dialogue**

**Convenor:** Susan Harker, United Kingdom

**WG 6 – Human centred design processes for interactive systems**

**Convenor:** Tom Stewart, United Kingdom

**WG 8 – Ergonomics design of control centres**

**Convenor:** John Wood, United Kingdom

**WG 9 – Haptic and tactile interactions**

**Convenor:** Jim Carter, Canada

**WG 10 – Accessible design for consumer products**

**Convenor:** Prof. Shigeru Yamauchi, Japan

**JWG (TC1 SC7 & TC159/SC4) – Common Industry Format (CIF)**

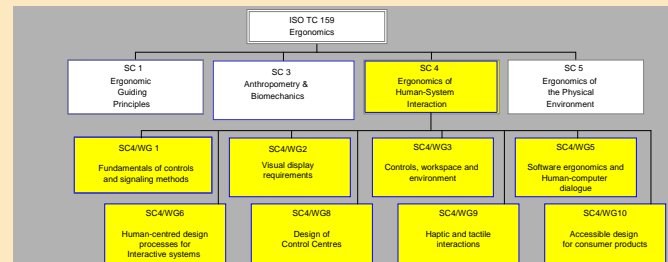
**Convenor:** Mary Theofanos, USA

### How to get involved:

1) Find out more about the ANSI/HFES TAG to ISO TC 159/SC4 by contacting: Jim Williams at [ergojim@earthlink.net](mailto:ergojim@earthlink.net)

2) Participate in the HFES Standardization and Best Practices Working Group by contacting: Al Poston at [aposton86@comcast.net](mailto:aposton86@comcast.net)

### Organizational Structure



### Current Projects:

**ISO 1503 (revision)** Spatial orientation and direction of movement – Ergonomic requirements. (FDIS approved) (WG1)

**ISO 9241-20** Ergonomics of human-system interaction – Part 20: Accessibility guidelines for information/communication technology (ICT) equipment and services (Published)

**ISO 9241-129** Ergonomics of human-system interaction – Part 219: Guidance on software individualization (WG5)

**ISO 9241-154** Ergonomics of human system interaction – Part 154: Design guidance for interactive voice response (IVR) applications (New work item proposal WG5)

**ISO 9241-171** Ergonomics of human-system interaction – Part 171: Guidance on software accessibility (FDIS approved) (WG5)

**ISO 9241-210** Human-centred design process for interactive systems (WG6) Revision of ISO 13407

**ISO 9241-300 series** Ergonomics of human-system interaction – Electronic visual displays (WG2)

**ISO 9241-400 series** Ergonomics of human-system interaction – Physical input devices (WG3)

**ISO 9241-900 series** Ergonomics of human-system interaction – Tactile and haptic interactions (WG9)

**ISO 11064-5** Ergonomic design of control centres – Part 5: Displays and controls (WG8) (other six parts of 11064 published)

**ISO/AWI 24503** Ergonomics – Marking tactile dots on consumer products (WG10)

**ISO/IEC PDTR 25060:** Software product Quality Requirements and Evaluation (SQuaRE) – Common Industry Format (CIF) for Usability – General Framework for Usability-related Information (JWG – ISO/IEC JTC1/SC7 and TC159/SC4)

### Published Standards

**ISO 9241** Ergonomic requirements for office work with visual display terminals (VDTs)

**Part 1:1997** General introduction

**Part 2:1992** Guidance on task requirements

**Part 3:1992** Visual display requirements

**Part 4:1998** Keyboard requirements

**Part 5:1998** Workstation layout and postural requirements

**Part 6:1999** Guidance on the work environment

**Part 7:1998** Requirements for displays with reflections

**Part 8:1997** Requirements for displayed colours

**Part 9:2000** Requirements for non-keyboard input devices

**Part 11:1998** Guidance on usability

**Part 12:1998** Presentation of information

**Part 13:1998** User guidance

**Part 14:1997** Menu dialogues

**Part 15:1997** Command dialogues

**Part 16:1999** Direct manipulation dialogues

**Part 17:1998** Form filling dialogues

**ISO 9241-110:2006** Ergonomics of human-system interaction – Part 110: Dialogue principles

**ISO 11064** Ergonomic design of control centres

**Part 1:2000** Principles for the design of control centres

**Part 2:2000** Principles for the arrangement of control suites

**Part 3:1999** Control room layout

**Part 4:2004** Layout and dimensions of workstations

**Part 6:2005** Environmental requirements for control centres

**Part 7:2006** Principles for the evaluation of control centres

**ISO 13406-1,2:1999,2001** Ergonomic requirements for work with visual displays based on flat panels

**ISO 13407:1999** Human-centred design processes for interactive systems

**ISO 14915-1,2,3:2002,2003,2002** Software ergonomics for multimedia user interfaces

**ISO/TR 16982:2002** Ergonomics of human-system interaction – Usability methods supporting human-centred design

**ISO/PAS 18152:2003** Ergonomics of human-system interaction – Specification for the process assessment of human-system issues

**ISO/TR 18529:2000** Ergonomics of human-system interaction – Human-centred lifecycle process descriptions