

Special Issue

Challenges and Future Trends of Human-Computer Interaction

Message from the Guest Editors

Human-Computer Interaction (HCI) examines how people engage with digital technologies across diverse contexts.

Advances in Artificial Intelligence are reshaping HCI by influencing theoretical frameworks, improving data-driven methods for understanding user behavior, and enabling new forms of interaction and system design. Emerging autonomous and embodied technologies are redefining human-technology relationships across various domains. Accessibility and inclusivity remain central to ensuring that systems are usable and beneficial for diverse user populations. Research areas include:

- Human-AI Interaction: Intelligent, adaptive, and proactive interactive systems.
- Multimodal Interaction: Seamless integration of speech, gesture, gaze, and haptic-based interfaces.
- Data-Driven HCI: AI-powered methodologies, predictive modeling, and data-informed user analytics.
- Emerging Interaction Frontiers: Human-robot interaction, autonomous systems, and immersive XR experiences.
- Inclusive Design: Digital accessibility, universal design, and social inclusivity in interactive systems.
- Cognitive UX: Psychological, emotional, and ergonomic aspects of intelligent and adaptive environments.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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