Consumer electronics are undergoing a transformative evolution, largely propelled by the strides made in artificial intelligence based human-computer-interaction (AI-HCI) technology. This convergence of AI-HCI has ushered in an era characterized by intelligent, personalized, and interconnected consumer experiences across an array of devices ranging from smartphones and smart speakers to home automation devices and wearables. This special issue aspires to elucidate the contemporary AI-HCI developments within the consumer electronics domain and delve into the latest advancements and emerging trends at the nexus of AI-HCI and consumer electronics. Moreover, it provides a platform that facilitates the exchange and presentation of research findings among scholars from academia and industry.

Topics applicable to this magazine include but are not limited to:

- **Intelligent Interaction Technology**: Encompassing speech recognition, natural language processing, gesture recognition, and related domains within the purview of consumer electronics products.
- **Intelligent Devices and Applications**: Envisaging the manifold applications of artificial intelligence within smartphones, smart home devices, smart wearables, and analogous contexts.
- **Personalized Recommendation and Intelligent Services**: Delving into personalized recommendation systems, intelligent e-commerce frameworks, and similar avenues.
- **Data Privacy and Security**: Investigating mechanisms for safeguarding data privacy and bolstering security within the domain of consumer electronics products.
- **Smart Home and Internet of Things**: Deliberating the automated control and seamless interconnectivity of smart home devices.
- **Smart Health and Lifestyle**: Exploring the gamut of applications encompassing smart health monitoring devices, health-centric recommendations, and analogous areas.
- **User Experience and Interface Design**: Optimizing the user experience and interface design within the spectrum of consumer electronics products.
- **Sustainability and Standardization**: Envisioning the confluence of sustainability and standardization within the context of artificial intelligence embedded in consumer electronics products.

**Important dates:**

- Submissions Deadline: August 31, 2024
- Tentative Publication Date: 2nd quarter, 2025
Instructions for authors:

Manuscripts should be prepared following guidelines at: https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html and must be submitted online following the IEEE Transactions on Consumer Electronics instructions: https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html. During submission, the Special Section on “State-of-the-Art Artificial Intelligence Based Human-Computer-Interaction for Consumer Electronics” should be selected.