

Special Issue

Advanced Social Robots and Human–Computer Interaction Applications

Message from the Guest Editor

With the escalating demand for diverse robot applications, the fields of hardware, software, and embodied artificial intelligence are currently experiencing rapid growth. Among them, social robots stand out as particularly pivotal in the context of citizens' daily lives. These robots are primarily focused on applications that enhance healthcare services, revolutionize education, improve assistive technologies, and optimize collaborative work environments. The concept of “body, core, head, brain, sensation, emotion” has been proposed to highlight the most significant cutting-edge directions in the research and development of social robots, emphasizing interdisciplinary research that integrates robotics, cognitive science, and human-centered design principles. On another front, these robots serve as carriers of cultural identity, integrating traditional cultural elements into modern robotic technology, thus promoting cultural preservation and innovation, aiming to create intuitive and culturally sensitive interfaces.

Keywords

- social robots
- embodied artificial intelligence
- human–robot interaction
- body
- core
- head
- brain
- sensation
- emotion

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