Applications of Mobile Robot Navigation and Human-Computer Interaction

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Message from the Guest Editor

Mobile robot navigation and human–computer interaction (HCI) are two intertwined fields that have revolutionized various industries and everyday life. The application of mobile robot navigation involves the autonomous movement of robots in both structured and unstructured environments, enabling them to perform tasks and interact with their surroundings. The applications of mobile robot navigation and HCI are diverse and impactful. HCI techniques enable natural and intuitive communication between humans and robots, allowing patients to interact with the robots through speech, gestures, or touch interfaces.

Overall, the applications of mobile robot navigation and HCI are diverse and rapidly expanding, enabling automation, improving human–robot interaction, and enhancing various industries and aspects of daily life.

Keywords

- mobile robot navigation
- human-computer interaction
- autonomous transportation
- industrial automation
- search and rescue
- computer vision
- deep learning
- delivery robots
- mapping
- sensors

Special Issue

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Message from the Editor-in-Chief

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