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Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)
Volume 11786 LNCS, 2019, Pages 233-242
21st International Conference on Human-Computer Interaction, HCII 2019; Orlando; United States; 26 July 2019 through 31 July 2019; Code 231329

A Review of Augmented Reality-Based Human-Computer Interaction Applications of Gesture-Based Interaction (Conference Paper)

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Abstract

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In recent years, augmented reality (AR) is an extremely growing field in information technology, computer science, and computer engineering. Although there are many recent works that use augmented reality for different purposes, most of the existing works do not focus on reviewing recent augmented reality-based human-computer interaction applications regarding gesture-based interaction. Therefore, we focus on a different goal from them. In this paper, we study robust methodologies that researchers have recently achieved gesture-based interaction for using in augmented reality-based human-computer interaction (HCI) applications. To begin with, we explore the recognitions of hand gestures using augmented reality. Next, we explore the possibilities of utilizing augmented reality for gesture-based interaction. We also give a suggestion and present a future scenario for gesture-based interaction and augmented reality. We believe that this would help the interactions that humans would have with modern innovations in an integrated cross-disciplinary area in the near future of human-computer interaction. © 2019, Springer Nature Switzerland AG.

SciVal Topic Prominence ⓘ

Topic: Gesture recognition | Human computer interaction | Dynamic hand

Prominence percentile: 98.868 ⓘ

Author keywords

- Augmented reality
- Distance transform
- Gesture-based interaction
- Hand gestures
- Human-Computer interaction
- Mixed-scale gesture design
- Multimodal augmented reality

Indexed keywords

Engineering controlled terms:

Augmented reality

Engineering uncontrolled terms

- Computer engineering
- Cross-disciplinary
- Distance transforms
- Gesture-based interaction
- Hand gesture
- Human computer interaction (HCI)
- Multi-modal

Engineering main heading:

Human computer interaction

Funding details

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