

# Overview of the Interaction Between Humans and Computer

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**Abstract:** *As computer technology has advanced, so has the concept of human-computer interaction (HCI). This review paper examines the history of HCI, the research conducted, the key methodologies used, and the current trends in the field. It also examines the mental model of HCI, highlighting current approaches, results, and trends. Additionally, it looks at the research that has been developed in the past and is now lagging behind, as well as the research on emotional intelligence of users and fidelity prototyping, which is still being developed.*

*This review examines the founding theories and frameworks of Human-Computer Interaction (HCI), such as the Cognitive Walkthrough and the User-Centered Design Approach, and how they have contributed to the development of the field. It also examines the effects of technological developments, ranging from desktop computing to mobile devices and augmented reality, on the human-computer interface paradigms. Finally, it examines the current state of HCI research, from the development of evaluation methods to the integration of quantitative and qualitative approaches. Finally, it looks ahead to the future of HCI, and the role of AI, VR, and AR in user experiences. Finally, it emphasizes the need to understand diverse user needs in order to create user-friendly user interfaces.*

**Keywords:** Human computer interaction, Emotional intelligence, Interactivity, Younger participants, Fidelity Prototyping.

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