IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 2, October 2025
Impact Factor: 7.67

Human-Computer Interaction

Pallavi S. Ghawat[1] and Dr. R. S. Durge[2]
Student, Computer Science and Engineering[1]
Head of Department, Department of CSE[2]
Dr Rajendra Gode Institute of Technology & Research, Amravati, India

Abstract: *Human-computer interaction (HCI) plays a crucial role in determining the usability and effectiveness of complex systems. This paper presents a study on the design of intuitive interfaces and its impact on user experience and cognitive load. We conducted a mixed-methods study, combining user testing and eye-tracking techniques to investigate the effects of interface design on user performance, satisfaction, and cognitive load. Our findings indicate that interfaces designed with clear visual hierarchies, simple navigation, and minimal cognitive load significantly improve user experience and reduce errors. The study contributes to the HCI literature by highlighting the importance of intuitive design in complex systems and providing design guidelines for practitioners.*

Keywords: Human-Computer Interaction, User Experience, Intuitive Design, Cognitive Load, Human-Technology Interaction.

DOI: 10.48175/IJARSCT-29288