

AI Assisted Web Development and Natural Language Interface

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Abstract: *The use of artificial intelligence (AI) in the user experience (UX) design process is reshaping design practice and underlining the importance of understanding how AI is used to support the UX design process. This systematic literature review has identified and analyzed 83 empirical studies to answer the question: How does human-computer interaction research literature address the use, development, and perception of AI-supported UX design tools? Findings illustrate that the most common use for AI is to boost efficiency in evaluative activities of the design process. In addition, there is some use of generative AI tools to support ideation and prototyping or to simulate users. The reviewed literature underscores issues of potential overreliance on automation and a technology-first approach in developing AI design tools without involving designers. The study outlines future directions for developing AI-enabled design tools that support creativity and design work while preserving human-centric values.*

Keywords: Artificial Intelligence (AI), User Experience (UX), Human-Computer Interaction (HCI), Generative AI, Predictive AI

