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Mapping Global Information Design Research in Digital Interfaces: A Bibliometric Perspective on SDGs 4 and 9

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DOI : <https://doi.org/10.63230/jocsis.2.3.258>

Sections Info

Article history:

Submitted: February 2, 2026

Final Revised: May 26, 2026

Accepted: June 3, 2026

First Available Online: July 14, 2026

Publication Date: September 27, 2026

Keywords:

Bibliometric Analysis ;

Information Design;

Sustainable Development Goals;

User Experience;

User Interface.

ABSTRACT

Objective: To map the global development of research on information design in digital interfaces through the perspective of user interface (UI), user experience (UX), and usability studies. This study also examines its relevance to Sustainable Development Goal 4 (Quality Education) and Sustainable Development Goal 9 (Industry, Innovation and Infrastructure). **Method:** Bibliometric analysis was conducted using Scopus-indexed journal articles published between 2000 and 2026. Data were retrieved using the query TITLE-ABS-KEY ("UI" AND "UX" AND ("user experience" OR usability)). Following PRISMA-guided screening, 51 articles were selected for analysis. Performance analysis and science mapping using VOSviewer were applied to identify publication trends, source contributions, and thematic structures. **Results:** The findings indicate rapid growth of UI/UX research during the 2020s, with major contributions from computer science, engineering, and interdisciplinary fields. Thematic mapping shows that user experience, usability, and user interface represent the central research clusters, while design thinking and usability testing emerge as important supporting themes. **Novelty:** The study highlights information design as a strategic component in sustainable digital development. Effective interface structures support SDG 4 by improving accessibility and comprehension in digital learning environments, while supporting SDG 9 through the development of inclusive and human-centered digital infrastructure. The findings provide directions for future research on accessibility, usability evaluation, and sustainable interface design.

INTRODUCTION

The 2030 Agenda for Sustainable Development identifies digital technology and accessible information infrastructure as cross-cutting enablers of multiple Sustainable Development Goals (SDGs). In particular, SDG 4 (Quality Education) calls for inclusive and equitable digital learning and SDG 9 (Industry, Innovation and Infrastructure) highlights the need for inclusive and resilient digital infrastructure. At the heart of each of these goals lies a common challenge: users must be able to comprehend, navigate, and act upon digital information effectively. This is precisely the domain of information design in digital interfaces. Digital interfaces have become the dominant channel for accessing information, completing transactions, and making decisions across education, healthcare, public services, and industry (Arief et al., 2023). As interfaces grow more content dense and interaction rich, the way information is structured, labeled, visualized, and sequenced increasingly determines whether users can understand what is presented and act with confidence (Joshi & Deole, 2025; Kemangi et al., 2025; Nik Ahmad et al., 2025; Nirapai & Leelasantitham, 2024; Nuñez et al., 2024; Pietroni et al., 2018; Rinawiyanti et al., 2025; Ro et al., 2024; S et al., 2025; Samsudin et al., 2025). This makes information design a core concern in UI/UX research, not only as an aesthetic layer but as a cognitive and behavioral scaffold that shapes comprehension, efficiency, trust, and error rates in real usage contexts (Alao et al., 2022; Alghamdi et al., 2022; Alomari et al., 2020; AlSalem & Alshamari, 2023).