

Mobile notifications as an information medium: an ethnographic study of mobile human-information interaction attitudes of Egyptian and German higher education students

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Research - Full text

Received: 15.01.2024

Accepted: 08.03.2024

Published: 30.04.2024

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Abstract

This study explores the impact of mobile notifications on the information behavior and interaction attitudes of higher education students in Egypt and Germany. Using an ethnographic approach, the research investigates how mobile notifications serve as a crucial medium for information delivery, transforming user interaction with information. The study identifies significant challenges posed by the influx of notifications, such as information overload, distraction, and stress. It also examines the skills and strategies students employ to manage and prioritize notifications, emphasizing the need for improved mobile information literacy (MoIL). Interviews and observations reveal varied user engagement with notifications, highlighting the dual role of notifications as both end-point information containers and triggers for deeper information-seeking behavior. The findings suggest that while notifications enhance efficiency and immediacy in accessing information, they also necessitate new coping

mechanisms to mitigate negative impacts. This research contributes to the field of information behavior by offering insights into the effective use of mobile notifications and proposing better notification system designs to foster enhanced information literacy in an increasingly connected world.

Keywords

Mobile Notifications, Information Behavior, Human-Information Interaction (HII), Ethnographic Study, Higher Education Students, Mobile Information Literacy (MoiL)

6. Conclusion

The study underscores the significant influence of smartphone notifications on user behavior and information-seeking patterns. Notifications are a critical yet intrusive medium for information delivery, distinguished by their alerting, temporary, summarized, and textual nature. They are universally integrated into smartphones, utilizing a variety of sensors to deliver contextually relevant and timely alerts. Nevertheless, the continuous inflow of information presents substantial obstacles, such as information overload, distraction, and stress.

Users engage with a variety of notifications, including system updates, communications, social networks, and gaming alerts. While system notifications are considered the most critical, social network notifications, despite their popularity, frequently result in information overload. Although notifications are beneficial for the rapid dissemination of information, their temporary and condensed nature can lead to shallow information-seeking behavior and information loss.

User responses to notifications are inconsistent; they may be disregarded or employed as entry points for additional information acquisition. This behavior emphasizes the dual function of notifications as both end-point information containers and triggers for deeper engagement with information. Nevertheless, the absence of prioritization in notification delivery can result in the overshadowing of critical messages by less important ones, resulting in inefficient information management.

The research also indicates that notifications can predict user needs and improve engagement; however, they frequently result in unintended consequences, including increased stress, smartphone addiction, and exposure to spammy content. Users expressed frustration with the continuous alerts, which prompted them to take extreme measures such as disabling notifications or uninstalling applications.

In order to address these challenges, it is imperative to improve mobile information literacy MolL. To ensure that they receive timely information without experiencing its adverse consequences, users must acquire the ability to manage and prioritize notifications effectively. This encompasses the comprehension of notification system functionality, the adjustment of settings to meet individual preferences, and the implementation of strategies to balance the benefits of notifications with their potential for disruption.

In conclusion, the management and impact on user behavior of smartphone notifications require a more nuanced approach despite their critical role in the dissemination of modern information. Users can optimize their information-seeking behavior and overall user experience by navigating the complexities of notifications and implementing intelligent notification systems, which fosters better mobile information literacy.