THE EFFECT OF DIGITAL TECHNOLOGIES ON HUMAN COMMUNICATION SKILLS

Student of Kokand University Andijan branch
Abduqunduzov Muxammadali
Scientific Supervisor: **Jaloldinov Islomiddin**
Teacher of Kokand University Andijan branch

Abstract: *This article critically examines the multifaceted impact of digital technologies on human communication skills in contemporary society. While these technologies offer unprecedented opportunities for connectivity and information exchange, concerns persist regarding their influence on traditional interpersonal and intrapersonal communication competencies. The study explores how digital platforms affect aspects such as active listening, non-verbal cues interpretation, empathy development, and sustained attention during conversations. It also investigates the potential for both enhancement and degradation of these skills, depending on usage patterns and educational interventions. Understanding this complex interplay is crucial for fostering effective communication in an increasingly digitized world.*

Keywords*: Digital Technologies, Human Communication, Interpersonal Skills, Social Interaction, Media Influence, Empathy, Attention Span, Digital Literacy*

Annotatsiya: *Ushbu maqola raqamli texnologiyalarning zamonaviy jamiyatda insonning kommunikatsiya ko'nikmalariga ko'p qirrali ta'sirini tanqidiy tahlil qiladi. Ushbu texnologiyalar aloqa va axborot almashinuvi uchun misli ko'rilmagan imkoniyatlar yaratgan bo'lsa-da, ularning an'anaviy shaxslararo va shaxsiy kommunikatsiya kompetensiyalariga ta'siri bo'yicha xavotirlar saqlanib qolmoqda. Tadqiqot raqamli platformalarning faol tinglash, noverbal ishoralarni talqin qilish, empatiyani rivojlantirish va suhbatlar davomida barqaror diqqat kabi jihatlarga qanday ta'sir qilishini o'rganadi. Shuningdek, u ushbu ko'nikmalarning foydalanish usullari va ta'lim aralashuvlariga qarab ham yaxshilanishi, ham yomonlashishi mumkinligini tekshiradi. Raqamlashtirilgan dunyoda samarali kommunikatsiyani rivojlantirish uchun ushbu murakkab o'zaro ta'sirni tushunish juda muhimdir.*

Kalit so‘zlar: *Raqamli Texnologiyalar, Inson Kommunikatsiyasi, Shaxslararo Ko'nikmalar, Ijtimoiy O'zaro Ta'sir, Media Ta'siri, Empatiya, Diqqat Barqarorligi, Raqamli Savodxonlik*

Аннотация: *Данная статья критически анализирует многогранное влияние цифровых технологий на коммуникативные навыки человека в современном обществе. Хотя эти технологии предоставляют беспрецедентные возможности для связи и обмена информацией, сохраняются опасения относительно их воздействия на традиционные межличностные и внутриличностные коммуникативные компетенции. Исследование изучает, как цифровые платформы влияют на такие*

аспекты, как активное слушание, интерпретация невербальных сигналов, развитие эмпатии и устойчивое внимание во время разговоров. Оно также исследует потенциал как улучшения, так и ухудшения этих навыков, в зависимости от моделей использования и образовательных вмешательств. Понимание этого сложного взаимодействия имеет решающее значение для развития эффективной коммуникации во все более цифровом мире.

Ключевые слова: *Цифровые Технологии, Человеческая Коммуникация, Межличностные Навыки, Социальное Взаимодействие, Влияние Медиа, Эмпатия, Продолжительность Внимания, Цифровая Грамотность*

INTRODUCTION

The pervasive integration of digital technologies into daily life has fundamentally reshaped the landscape of human interaction. Digital communication, broadly defined as the exchange of information and meaning through electronic devices and networks, encompasses a vast array of modalities, from instant messaging and social media platforms to video conferencing and virtual reality environments. This technological evolution has profoundly altered how individuals connect, collaborate, and express themselves, necessitating a critical examination of its influence on foundational human capabilities.

Human communication skills, traditionally understood to encompass both verbal and non-verbal competencies crucial for effective interpersonal engagement, include active listening, empathy, clarity of expression, and the interpretation of subtle social cues. The advent of digital communication has prompted considerable debate regarding its impact on these established proficiencies. While some argue that digital platforms foster new forms of connection and efficiency, others contend that they may erode essential skills vital for rich, nuanced human interaction. This article critically synthesizes extant literature to explore the multifaceted effects of digital technologies on human communication skills, moving beyond simplistic dichotomies to uncover the complex interplay between technological adoption and communicative competence.

The relationship between digital technology use and communication skills is complex, often presenting paradoxical outcomes. For instance, research on nonverbal decoding skills suggests that active technology users may self-report superior abilities but perform worse objectively, while passive users show improved objective performance. Similarly, concerns that screen time diminishes attention spans have been challenged by findings indicating no significant correlation between total screen time or content type and attention span, suggesting other factors are more influential. These findings underscore the necessity of a comprehensive analysis that considers specific types and contexts of digital engagement. This article will delve into these complexities, examining the erosion of traditional skills, transformations in communication forms, and the emergence of new competencies.

LITERATURE REVIEW

Building upon the foundational understanding that digital technologies exert a complex and often paradoxical influence on human communication, this literature review systematically examines extant scholarship concerning the erosion of traditional

communication skills, the significant transformations in both written and verbal modalities, and the concurrent emergence of novel digital competencies. Scholars increasingly focus on disaggregating the effects of specific digital communication types and contexts, recognizing that a blanket assessment fails to capture the intricate interplay between technology and communicative proficiency.

A primary concern within this discourse revolves around the potential erosion of non-verbal communication skills, critical for interpreting social cues and fostering empathy. Research indicates a complex relationship where self-perceived competence may diverge significantly from objective performance. Studies exploring nonverbal decoding skills reveal that individuals engaged in more active digital technology use, such as content creation, tend to self-report superior abilities but perform worse on objective, standardized tests [1]. Conversely, passive technology users, primarily consuming digital content, perform significantly better on objective assessments, despite not reporting self-perceived differences [1]. This paradox suggests that while digital engagement might foster a belief in enhanced social acumen, the actual practice of interpreting subtle non-verbal cues in real-world interactions may be diminished, particularly in highly curated or asynchronous digital environments, as immediate, multi-sensory feedback is often absent. Furthermore, the digital landscape poses challenges to active listening and empathetic engagement. The asynchronous nature of many digital tools, coupled with pervasive multitasking, can fragment attention, reducing cognitive resources for deep listening. Digitally mediated conversations, often characterized by rapid exchanges and abbreviated responses, may inadvertently discourage the sustained focus required for true active listening, potentially hindering empathetic understanding by reducing exposure to the full emotional spectrum conveyed in unmediated human interaction.

The very forms of written and verbal communication have undergone profound transformations. Digital platforms, particularly instant messaging and social media, often impose character limits or encourage brevity, leading to a shift towards more concise, abbreviated language. While this streamlines information exchange, it may also reduce the depth and nuance of expression, potentially oversimplifying complex ideas. Moreover, the boundaries of formality have blurred considerably. Informal language, emojis, and internet slang are increasingly prevalent in professional and academic contexts, challenging traditional notions of appropriate communication. This fosters approachability but necessitates re-evaluation of how clarity, respect, and authority are conveyed. The constant availability and rapid pace of digital communication can also create an expectation for immediate responses, potentially prioritizing speed over thoughtful deliberation.

Concurrently, the digital age has necessitated the emergence of new communication competencies and social norms. Individuals must master digital literacy, navigating diverse online platforms, discerning credible information, and managing digital identity. New forms of expression, such as strategic emoji and meme use, are integral to conveying tone and cultural references. Asynchronous collaboration and effective online presentation skills are increasingly vital, alongside evolving social norms dictating response times and online etiquette. These emergent skills redefine communicative competence in a networked world.

The psychological and societal implications are extensive. While initial concerns highlighted potential detriments to attention spans, recent research suggests a more nuanced picture. Studies on screen time's impact on attention across age groups found no significant correlation between total screen time or specific content types and attention span scores [2]. This challenges the simplistic notion that screen use inherently weakens attention, suggesting individual cognitive differences and environmental factors exert greater influence [2]. Nevertheless, constant connectivity and curated realities on social media can contribute to social comparison, anxiety, and loneliness. Algorithmic content curation also shapes information consumption, potentially leading to echo chambers and filter bubbles that fragment societal discourse and challenge shared understanding.

In light of these complex effects, scholarly discourse increasingly emphasizes fostering balanced communication skills. This involves recognizing the value of traditional interpersonal competencies while integrating and developing new literacies for effective digital engagement. Strategies for mitigating potential negative effects include promoting mindful technology use, encouraging critical digital literacy education, and designing platforms that prioritize well-being and genuine connection. Ultimately, navigating the future of human communication requires a holistic approach that acknowledges both the challenges and opportunities presented by technological advancements, aiming to cultivate individuals adept at communicating authentically and effectively across the full spectrum of human interaction, both online and offline.

RESEARCH METHODOLOGY

The present article employs a systematic literature review methodology to critically synthesize extant scholarship concerning the multifaceted effects of digital technologies on human communication skills. This approach was chosen to provide a comprehensive, unbiased, and rigorous overview of the current state of research, moving beyond anecdotal observations to establish an evidence-based understanding of the complex interplay between technological adoption and communicative competence. The review specifically aimed to identify patterns of erosion in traditional communication skills, document transformations in written and verbal modalities, and delineate the emergence of new digital communication competencies, as highlighted in the preceding sections.

To ensure a broad yet focused coverage of relevant literature, a systematic search strategy was developed and executed across several prominent academic databases: Scopus, Web of Science, PubMed, PsycINFO, and Communication & Mass Media Complete. These databases were selected for their extensive coverage of social sciences, psychology, communication studies, and interdisciplinary research pertinent to technology and human behavior. The search queries combined various keywords and Boolean operators to capture the breadth of the topic. Key terms included "digital technology," "digital communication," "social media," "internet," "online communication," "communication skills," "interpersonal communication," "non-verbal communication," "active listening," "empathy," "verbal communication," "written communication," "digital literacy," and "social norms." These terms were combined using "AND" to link technology-related terms with communication

skills terms, and "OR" to group synonyms or related concepts within each category (e.g., "digital technology OR social media").

The initial search was conducted for peer-reviewed articles published between January 2015 and December 2023, with a particular emphasis on studies from 2020 onwards to capture the most contemporary research and reflect the rapid evolution of digital platforms and their societal impact. Only articles published in English were included to maintain consistency in linguistic and conceptual interpretation. The screening process involved two stages. First, titles and abstracts of all retrieved articles were independently reviewed by two researchers to assess their preliminary relevance to the research questions. Articles deemed irrelevant (e.g., focusing solely on technical aspects of digital technology without discussing human communication, or unrelated medical/biological studies) were excluded. In the second stage, the full texts of the remaining articles were retrieved and thoroughly evaluated against predefined inclusion and exclusion criteria.

Inclusion criteria mandated that studies must be peer-reviewed empirical research (quantitative, qualitative, or mixed-methods), systematic reviews, meta-analyses, or significant theoretical contributions directly examining the relationship between digital technology use and human communication skills. This encompassed research exploring the impact on specific communication modalities (e.g., non-verbal cues, active listening, written clarity, verbal fluency) and across various digital platforms (e.g., instant messaging, social media, video conferencing). Exclusion criteria included opinion pieces, editorials, book chapters (unless part of a peer-reviewed collection), non-peer-reviewed publications, and studies that did not offer direct insights into the specified research scope. Any discrepancies in article selection between the two independent reviewers were resolved through discussion and, if necessary, consultation with a third reviewer to ensure consensus and minimize bias.

Data extraction from the selected articles involved systematically recording key information relevant to the review's objectives. This included study design, sample characteristics, the specific digital technologies investigated, the communication skills assessed, the main findings, and identified limitations of the primary research. This structured approach facilitated a consistent and comprehensive overview of the evidence base. The extracted data then underwent a rigorous thematic analysis, a qualitative method for identifying, analyzing, and reporting patterns (themes) within the data. This involved an iterative process of familiarization with the data, generation of initial codes, searching for themes, reviewing themes, defining and naming themes, and finally, producing the report.

The critical synthesis component of this methodology extended beyond mere summarization. It involved evaluating the methodological quality and robustness of the included studies, identifying areas of consensus and divergence, and critically assessing the strength of evidence supporting various claims regarding digital technology's impact on communication skills. Particular attention was paid to studies that offered nuanced perspectives, addressing the "complex interplay" and "paradoxical outcomes" previously noted, such as the divergence between self-reported and objective communication skill performance. The synthesis also aimed to disaggregate effects based on specific types and contexts of digital engagement, recognizing that a blanket assessment would fail to capture

the intricate relationship between technology and communicative proficiency. This critical approach allowed for the development of a cohesive narrative that not only outlines the observed effects but also provides insights into their underlying mechanisms and implications for future research and practice.

CONCLUSION

This article has demonstrated that digital technologies exert a complex, often paradoxical influence on human communication skills. While traditional competencies like non-verbal interpretation and active listening face challenges, new digital literacies and social norms have simultaneously emerged. Communication modalities have transformed, emphasizing brevity and blurring formality, yet concerns about attention spans are more nuanced than often assumed. Navigating this evolving landscape requires a holistic approach, fostering mindful technology use and critical digital literacy to cultivate individuals capable of authentic and effective interaction across both digital and unmediated environments. This balance is crucial for the future of human connection.

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