

Trust, Digital Socialization, And Educational Transformation: Interpersonal Trust As A Socio-Psychological Foundation Of Learning In Networked Environments

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ABSTRACT

The accelerating digitalization of education has transformed not only pedagogical tools and institutional structures but also the socio-psychological foundations upon which learning is built. Among these foundations, interpersonal trust occupies a central yet insufficiently theorized position. While existing research on digital education has extensively addressed technological readiness, access inequalities, interaction patterns, and academic performance, far less attention has been paid to trust as a mediating construct that shapes learner engagement, social participation, and epistemic openness in digitally mediated environments. This article develops an original, integrative analysis of interpersonal trust as a key condition for effective digital socialization in education. Drawing exclusively on the provided interdisciplinary references, the study synthesizes sociological, psychological, pedagogical, and philosophical perspectives to argue that trust functions as both a precondition and an outcome of digital learning practices.

The article situates interpersonal trust within broader theories of social interaction, digital socialization, and educational transformation, emphasizing its relevance in contexts characterized by uncertainty, mediated communication, and reduced face-to-face contact. Particular attention is given to the problem of trust erosion and the possibility of trust restoration in online learning environments, drawing on empirical insights into public attitudes toward trust and social relations (FOM, n.d.). Methodologically, the study adopts a qualitative, theoretical-analytical approach, integrating findings from studies on e-learning adoption, social media use, collaborative learning, and digital competence development. The results reveal that trust operates on multiple levels—interpersonal, institutional, and technological—and that disruptions at any level can significantly undermine learning outcomes and social cohesion.

The discussion advances a conceptual model of trust-based digital education, highlighting tensions between efficiency and relational depth, autonomy and control, and innovation and ethical responsibility. The article concludes by identifying trust as a critical yet fragile resource in digital education and by outlining directions for future research aimed at empirically operationalizing trust and designing pedagogical strategies that foster its development in networked learning ecosystems.

Keywords: Interpersonal trust; digital socialization; online learning; educational transformation; social interaction; digital competence.

INTRODUCTION

The transformation of education in the digital age has emerged as one of the defining socio-cultural processes of the early twenty-first century, reshaping not only institutional practices but also the very nature of social relations within learning environments (Toffler, 2004). As educational systems increasingly rely on online platforms, social media, and digital communication tools, questions arise regarding the socio-psychological conditions that enable or constrain meaningful learning. Among these conditions, interpersonal trust remains

both foundational and paradoxically underexplored, despite its recognized importance in sustaining social interaction, cooperation, and knowledge exchange (Soldatova & Voyskowsky, 2021).

Trust has long been considered a core element of social life, facilitating coordination in situations characterized by uncertainty and incomplete information. In educational contexts, trust traditionally develops through sustained face-to-face interaction, shared norms, and institutional legitimacy. However, digital learning environments fundamentally alter these conditions by mediating

interaction through technology, fragmenting social presence, and reconfiguring temporal and spatial boundaries (Altınay, 2017). This transformation raises critical questions about whether trust can be effectively established, maintained, or restored in online settings and how its absence or erosion affects learning processes and outcomes (FOM, n.d.).

The relevance of interpersonal trust becomes particularly evident when considering the expansion of e-learning and flexible learning models across diverse national and institutional contexts. Studies conducted in Malaysian higher education institutions demonstrate that while students actively adopt e-learning technologies, their engagement and performance are deeply influenced by perceptions of reliability, support, and social connectedness (Al-Rahmi et al., 2018). These perceptions are inherently linked to trust—not only in technological systems but also in instructors, peers, and educational institutions. Similarly, research on social media use in academic settings highlights ambivalent effects on academic performance, suggesting that unregulated or mistrusted environments can undermine learning even as they expand opportunities for interaction (Al-Rahmi & Othman, 2013).

From a sociological perspective, the digitalization of education must be understood as part of a broader process of digital socialization, wherein individuals internalize norms, values, and behavioral patterns through mediated interaction (Soldatova & Voyskowsky, 2021). Trust plays a crucial role in this process by enabling individuals to navigate complex information environments and to engage with others despite the absence of traditional cues for credibility and accountability. Public reflections on interpersonal trust reveal widespread ambivalence, as individuals simultaneously recognize the necessity of trust for social functioning and express concern about its vulnerability in contemporary society (FOM, n.d.). These reflections underscore the urgency of examining trust not as a static attribute but as a dynamic, context-dependent phenomenon shaped by cultural, technological, and institutional factors.

Philosophical analyses of education further complicate the picture by framing learning as an inherently relational and ethical process. The phenomenological and metaphysical dimensions of education emphasize the formation of the human subject through dialogical engagement and mutual recognition, processes that presuppose a basic level of trust (Saikina, 2022). In digital environments, however, such engagement is mediated by interfaces that may obscure intentions, emotions, and responsibilities, thereby challenging traditional assumptions about trust formation. This challenge is intensified by generational differences in digital experience, often described through the

dichotomy of “digital natives” and “digital immigrants,” which influences expectations, communication styles, and trust orientations (Prensky, 2001).

Despite the growing body of research on digital education, a clear gap remains in the systematic theorization of interpersonal trust as a central construct linking technological, social, and pedagogical dimensions. Existing studies tend to address trust implicitly, subsuming it under concepts such as interaction quality, engagement, or community of inquiry, without explicitly analyzing its mechanisms and implications (Aslan, 2021). Moreover, much of the literature focuses on functional outcomes—such as academic performance or technology adoption—while neglecting the deeper socio-psychological processes that sustain or undermine these outcomes over time (Bahrom, 2020).

The present article seeks to address this gap by offering an extensive, theoretically grounded examination of interpersonal trust in digital learning environments. By integrating insights from sociology, psychology, pedagogy, and philosophy, the study aims to elucidate how trust is constructed, challenged, and potentially restored in contexts of digital socialization. The analysis is grounded exclusively in the provided references and adheres to a qualitative, interpretive methodology that prioritizes conceptual depth over empirical generalization. Through this approach, the article contributes to a more nuanced understanding of digital education as a trust-dependent social practice rather than a purely technical or administrative endeavor.

METHODOLOGY

The methodological orientation of this study is rooted in qualitative theoretical analysis, a choice that reflects both the nature of the research problem and the constraints of the available data. Interpersonal trust, particularly in digital educational contexts, represents a complex, multidimensional construct that resists straightforward quantification and demands interpretive sensitivity (Prus & Tishkova, 2022). Accordingly, the study does not seek to test predefined hypotheses or to produce statistical generalizations. Instead, it aims to synthesize and critically interpret existing scholarly perspectives to generate an integrative conceptual framework.

The primary methodological strategy employed is systematic literature-based analysis. All arguments, interpretations, and conclusions are derived strictly from the references provided, ensuring conceptual coherence and intellectual accountability. The sources encompass a diverse range of disciplines, including educational technology, social psychology, sociology, philosophy of education, and media studies. This diversity allows for a multidimensional examination of trust as it intersects with digital learning practices (Shammazova & Zalyaev, 2021).

A key analytical step involves thematic coding at the conceptual level. Rather than coding empirical data, the study identifies recurring themes across the literature—such as social interaction, digital competence, institutional transformation, and ethical dimensions of education—and examines how these themes implicitly or explicitly relate to trust. For instance, discussions of barriers to technology adoption among university staff are interpreted not only as technical or organizational challenges but also as manifestations of mistrust toward new systems and practices (Amadin et al., 2018). Similarly, analyses of internet access and device availability are examined through the lens of trust in institutional support and social equity (Asio et al., 2021).

The study also employs comparative interpretive analysis to identify convergences and divergences among scholarly viewpoints. By juxtaposing studies conducted in different cultural and institutional contexts, the analysis highlights how trust is shaped by local norms, historical trajectories, and policy frameworks (Tsimbalenko et al., 2012). This comparative approach is particularly important given the global scope of digital education and the risk of overgeneralizing findings from specific contexts.

An important methodological consideration concerns the use of public opinion data on interpersonal trust. Reflections on trust drawn from sociological surveys provide a valuable contextual backdrop for understanding individual attitudes and social expectations (FOM, n.d.). Rather than treating such data as definitive measures, the study interprets them as expressions of collective concerns and moral reasoning that inform educational experiences. This interpretive stance aligns with the broader qualitative orientation of the research.

The methodology is not without limitations. The exclusive reliance on secondary sources constrains the ability to capture emergent practices or to verify theoretical claims through direct observation. Moreover, the absence of quantitative data precludes causal inference regarding the relationship between trust and learning outcomes. However, these limitations are acknowledged as inherent to the chosen approach and are mitigated by the depth and breadth of theoretical engagement (Sorina, 2024). By foregrounding conceptual clarity and critical synthesis, the study aims to lay the groundwork for future empirical research rather than to replace it.

RESULTS

The interpretive analysis of the literature reveals several interrelated findings concerning the role of interpersonal trust in digital learning environments. First, trust emerges as a multi-layered phenomenon operating

simultaneously at interpersonal, institutional, and technological levels. At the interpersonal level, trust influences students' willingness to engage in collaborative activities, share ideas, and seek feedback, particularly in synchronous and asynchronous online settings (Altınay, 2017). Studies of collaborative learning environments demonstrate that perceived openness and reliability among participants are crucial for sustaining meaningful interaction (Aslan, 2021).

At the institutional level, trust is closely linked to perceptions of fairness, support, and competence within educational organizations. Research on e-learning adoption indicates that students and staff are more likely to embrace digital tools when they trust institutional intentions and capacities (Al-Rahmi et al., 2018). Conversely, uncertainty regarding data privacy, assessment integrity, or long-term policy commitments can undermine confidence and reduce engagement. These findings resonate with broader sociological analyses of educational transformation in Russia, which highlight tensions between systemic reform and situational adaptation (Shammazova & Zalyaev, 2021).

Technological trust constitutes a third, distinct layer. Users must trust that digital platforms function reliably, protect personal information, and facilitate rather than obstruct learning. Barriers to the adoption of Google Apps for Education, for example, are not solely technical but also psychological, reflecting skepticism about usability and institutional endorsement (Amadin et al., 2018). This skepticism intersects with generational differences in digital literacy and experience, reinforcing the importance of readiness and competence development (Blayone, 2017).

A second major finding concerns the fragility of trust in digitally mediated environments. Public reflections on interpersonal trust suggest that individuals increasingly question whether trust is necessary or even possible in contemporary society, while simultaneously expressing a desire to restore lost trust (FOM, n.d.). In educational contexts, this ambivalence manifests in cautious participation, reliance on informal networks, and selective engagement with online platforms. Studies of youth digital activity indicate that while young people are highly active online, their trust orientations are complex and context-dependent (Prus & Tishkova, 2022).

Third, the results indicate that trust is both a prerequisite and an outcome of effective digital socialization. Successful participation in online learning communities can strengthen trust by fostering positive experiences of cooperation and mutual support (Soldatova & Voyskonsky, 2021). However, initial trust deficits can prevent such participation from occurring, creating a self-reinforcing cycle of disengagement. This dynamic underscores the ethical and pedagogical responsibility of

educators to actively cultivate trust rather than assume its presence.

DISCUSSION

The findings of this study invite a deeper theoretical discussion of interpersonal trust as a constitutive element of digital education. From a philosophical standpoint, trust can be understood as an existential orientation toward others and the world, enabling individuals to act despite uncertainty (Saikina, 2022). In digital learning environments, this orientation is continually tested by the opacity of technological systems and the absence of embodied interaction. The challenge, therefore, is not merely to replicate traditional forms of trust online but to reconceptualize trust in ways that acknowledge the специфичность of mediated communication.

One prominent debate concerns whether digital technologies inherently erode trust by reducing social presence and accountability. Critics argue that online interaction fosters anonymity and instrumentalization, undermining the moral foundations of education (Toffler, 2004). However, proponents of digital socialization contend that new forms of trust can emerge through sustained interaction, shared norms, and transparent practices (Soldatova & Voyskonsky, 2021). The literature reviewed in this study supports a nuanced position, suggesting that technology neither guarantees nor precludes trust but reshapes the conditions under which it develops.

Another key issue relates to the restoration of lost trust. Public discourse emphasizes the difficulty yet perceived necessity of rebuilding trust after it has been violated (FOM, n.d.). In educational settings, trust restoration may require explicit institutional measures, such as clear communication, participatory governance, and ethical guidelines for digital conduct. Pedagogically, it may involve designing learning activities that encourage gradual risk-taking and mutual recognition, thereby allowing trust to emerge through practice (Altınay, 2017).

The discussion also highlights the importance of cultural and contextual factors. Trust norms vary across societies and educational traditions, influencing expectations regarding authority, collaboration, and autonomy (Tsimbalenko et al., 2012). Digital education initiatives that ignore these variations risk imposing models that conflict with local trust cultures, leading to resistance or superficial compliance. Therefore, trust-sensitive approaches to digital transformation must be contextually grounded and reflexive.

Despite its contributions, the study acknowledges limitations, including its theoretical focus and reliance on

secondary sources. Future research should empirically operationalize trust in digital education, exploring its dimensions and dynamics through qualitative and mixed-method designs. Longitudinal studies could shed light on how trust evolves over time within online learning communities and how it relates to academic and personal development.

CONCLUSION

This article has argued that interpersonal trust constitutes a foundational yet fragile resource in digitally mediated education. By synthesizing interdisciplinary perspectives, the study demonstrates that trust operates across interpersonal, institutional, and technological levels, shaping engagement, learning, and socialization. In an era of rapid educational digitalization, neglecting the role of trust risks reducing education to a technical process devoid of its relational and ethical core. Recognizing and cultivating trust, by contrast, offers a pathway toward more humane, inclusive, and resilient digital learning environments.

REFERENCES

1. Al-Rahmi, W., & Othman, M. (2013). The impact of social media use on academic performance among university students: A pilot study. *Journal of Information Systems Research and Innovation*, 4(12), 1–10.
2. Saikina, G. K. (2022). Fenomen obrazovaniya v svete "metafiziki cheloveka". *Higher Education in Russia*, 31(12), 103–114.
3. FOM. (n.d.). Interpersonal trust. Do I need to trust people? Is it possible to regain lost trust? <https://fom.ru/TSennosti/14215>
4. Amadin, F. I., Obienu, A. C., & Osaseri, R. O. (2018). Main barriers and possible enablers of Google Apps for Education adoption among university staff members. *Nigerian Journal of Technology*, 37(2), 432–439.
5. Soldatova, G. U., & Voyskonsky, A. E. (2021). Sotsial'no-kognitivnaya kontseptsiya tsifrovoy sotsializatsii. *Psychology. HSE Magazine*, 18(3), 431–450.
6. Toffler, E. (2004). *Tret'ya volna*. ACT Publishing.
7. Altınay, F. (2017). Examining the role of social interaction in online learning process. *Ensayos: Revista de la Facultad de Educación de Albacete*, 32(2), 97–106.
8. Prensky, M. (2001). Digital natives, digital immigrants. *On the Horizon*, 9(5), 2–6.
9. Aslan, A. (2021). The evaluation of collaborative

synchronous learning environment within the framework of interaction and community of inquiry. *Journal of Pedagogical Research*, 5(2), 72–87.

10. Tsimbalenko, C. B., Sharikov, A., Mayorova-Shcheglova, S., & Makeev, P. (2012). Impact of the Internet on Russian teenagers and youth. *League of Young Journalists*.
11. Al-Rahmi, W. M., Alias, N., Othman, M. S., Alzahrani, A. I., Alfarraj, O., Saged, A. A., & Rahman, N. S. A. (2018). Use of e-learning by university students in Malaysian higher educational institutions. *IEEE Access*, 6, 14268–14276.
12. Blayone, T. J. (2017). Readiness for digital learning. *University of Ontario Institute of Technology*.
13. Bahrom, Z. (2020). Pedagogi norma baharu: Cabaran dan hikmah. *Jurnal Refleksi Kepemimpinan*.
14. Prus, F. P., & Tishkova, A. S. (2022). Issledovaniye tsifrovoy aktivnosti lichnosti v seti Internet. *SMALTA*, 4, 70–80.
15. Shammazova, E. Y., & Zalyaev, A. R. (2021). Sistemnost' i situatsionnost' vs transformatsiya rossiyskogo obrazovaniya. *Vestnik of Udmurt University*, 31(3), 316–321.
16. Sorina, G. V. (2024). Logiko-metodologicheskiye osnovaniya prepodavaniya gumanitarnykh distsiplin. *Philosophy. Journal of the Higher School of Economics*, 8(1), 54–66.
17. Asio, J. M. R., Gadia, E., Abarintos, E., Paguio, D., & Balce, M. (2021). Internet connection and learning device availability of college students. *Studies in Humanities and Education*, 2(1), 56–69.
18. Yeliseeva, E. V., Kashlikova, O. V., Korolev, N. G., & Sachenko, V. V. (2012). Internet-tehnologii kak faktor razvitiya sotsial'noy aktivnosti rossiyskoy molodezhi. *Organizatsiya raboty s molodezh'yu*, 9.