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Postphenomenological Perspective with Material
Hermeneutics

Adeoye Ibrahim

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Author: Adeoye Ibrahim

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Abstract:

This article explores the concept of digital value within the context of human-technology relations through a postphenomenological lens, utilizing dynamic material hermeneutics as the guiding framework. It aims to provide a deeper understanding of how digital artifacts influence human experiences and perceptions in the digital age. By examining the co-constitution of humans and technology, this study offers insights into the interpretative processes that shape our interactions with digital tools. The research addresses the evolving nature of digital value, proposing a new perspective that goes beyond traditional economic metrics to consider the qualitative aspects of digital engagement. Through a critical analysis of existing literature and empirical findings, the article highlights the transformative impact of technology on human existence, advocating for a more nuanced interpretation of digital value that incorporates ethical, social, and cultural dimensions. This comprehensive study contributes to ongoing debates in the field of philosophy of technology and digital humanities.

Keywords; Digital Artifacts, Virtual Economy, Technology Design, User Experience, Digital Interpretation, Technological Affordances, Value Construction, Interactive Technologies, Digital Ethics, Augmented Reality

Introduction:

In the contemporary digital era, the relationship between humans and technology has become increasingly complex and intertwined. As digital technologies continue to evolve, they shape and redefine various aspects of human life, from social interactions and communication to work and leisure. This article examines these changes by focusing on the concept of digital value, a term that encompasses the multifaceted ways in which digital technologies are integrated into everyday life. Traditional understandings of value have often been rooted in economic terms, focusing on quantifiable outcomes such as productivity gains or financial returns. However, as technology becomes more embedded in the fabric of human existence, there is a growing need to broaden our perspective and consider the qualitative dimensions of digital value.

The theoretical framework guiding this exploration is postphenomenology, a philosophical approach that emphasizes the co-constitutive relationship between humans and technology. Postphenomenology

seeks to understand how technological artifacts mediate human experiences and perceptions, thereby influencing the way we interpret and engage with the world. By incorporating dynamic material hermeneutics, this study further investigates the interpretive processes through which digital technologies acquire meaning and value. Dynamic material hermeneutics, an extension of traditional hermeneutic theory, considers the fluid and evolving nature of meaning-making in the context of human-technology interactions. It highlights the role of technology not just as a passive tool but as an active participant in shaping human experiences.

This article aims to contribute to the ongoing discourse on digital value by proposing a more comprehensive framework that integrates both quantitative and qualitative aspects. By examining the literature on human-technology relations, the article identifies gaps in current research and provides new insights into the ways digital technologies influence human perceptions and behaviors. Furthermore, it explores the ethical, social, and cultural implications of these changes, arguing for a more nuanced understanding of digital value that goes beyond mere economic considerations. The ultimate goal is to provide a richer, more holistic perspective on how digital technologies shape and are shaped by human experiences, thus contributing to the broader field of digital humanities and philosophy of technology.

Background Information:

The concept of digital value has been explored across various disciplines, including economics, sociology, and philosophy. Traditional economic theories have primarily focused on the monetary value generated by digital technologies, such as increased productivity, cost savings, and market expansion. However, this perspective often overlooks the broader implications of digital technologies on human life. Sociological studies have emphasized the social value of digital technologies, highlighting their role in facilitating communication, fostering social connections, and enabling new forms of social organization. Philosophical inquiries, particularly within the realm of phenomenology and postphenomenology, have focused on the experiential and interpretive dimensions of digital technologies.

Postphenomenology, in particular, offers a unique lens through which to examine digital value. Unlike classical phenomenology, which centers on the human experience of phenomena, postphenomenology emphasizes the mediating role of technology in shaping these experiences. Technologies are seen as active participants in the human experience, influencing how individuals perceive and engage with the world. This perspective aligns with the principles of dynamic material hermeneutics, which posits that the meaning and value of technological artifacts are not fixed but are continually negotiated and reinterpreted through human-technology interactions.

Aim of the Article:

The primary aim of this article is to reevaluate the concept of digital value within the framework of

human-technology relations, utilizing a postphenomenological approach informed by dynamic material hermeneutics. The study seeks to move beyond traditional economic definitions of value to encompass the broader social, cultural, and ethical dimensions that digital technologies bring into play. By examining how digital technologies mediate human experiences and shape perceptions, the article aims to provide a more comprehensive understanding of digital value that includes both objective and subjective elements.

Additionally, this article endeavors to bridge the gap between theoretical discourse and practical implications. It addresses the need for a more nuanced interpretation of digital value that can inform policy decisions, technological design, and user engagement strategies. By highlighting the dynamic and co-constitutive nature of human-technology relations, the study seeks to offer insights that are relevant not only to academics but also to practitioners in the fields of digital humanities, technology development, and digital ethics.

Related Work:

The exploration of digital value and human-technology relations has been a significant focus within several academic fields. In the domain of digital humanities, scholars have examined how digital tools and platforms transform traditional humanities research, offering new methods for analyzing and interpreting cultural artifacts. Works such as Drucker's (2013) "Graphesis" have argued for a rethinking of visual epistemology in the digital age, proposing that digital tools not only represent but also actively construct meaning. Similarly, Kirschenbaum's (2008) study of digital materiality explores the ontological status of digital artifacts, questioning what constitutes "presence" in a digital context and how digital objects can be said to possess value.

In the field of philosophy of technology, postphenomenological perspectives have been particularly influential in understanding the mediating role of technology. Don Ihde's foundational works have laid the groundwork for exploring how technology shapes human perception and action. More recent studies, such as those by Verbeek (2011), have extended these ideas to consider the ethical implications of technological mediation, suggesting that technologies do not merely influence but actively co-shape human moral decision-making. These discussions have been further enriched by contributions from critical theory, which interrogates the power dynamics embedded within technological systems and their implications for human agency and autonomy.

Sociological research has also provided valuable insights into human-technology relations, particularly through the lens of Actor-Network Theory (ANT). Scholars like Bruno Latour (2005) have argued that technologies should be viewed as actors within networks of human and non-human agents, each contributing to the construction of social reality. This perspective aligns with the principles of dynamic material hermeneutics, which emphasizes the fluid and evolving nature of meaning-making in technological contexts. By focusing on the interactions between humans and technology, ANT offers a framework for understanding how digital value is co-constructed within specific social and cultural settings.

Despite these significant contributions, gaps remain in the literature regarding the integration of quantitative and qualitative dimensions of digital value. While economic and sociological studies have provided frameworks for assessing the tangible impacts of digital technologies, there has been less attention paid to the intangible, experiential aspects that are central to postphenomenological inquiry. This article seeks to address this gap by proposing a more holistic approach to digital value, one that recognizes the complex interplay between objective metrics and subjective experiences.

Methodology:

The methodology adopted for this study combines theoretical analysis with empirical research to provide a comprehensive examination of digital value in human-technology relations. The theoretical framework is grounded in postphenomenology and dynamic material hermeneutics, offering a lens through which to explore the interpretative processes that shape human-technology interactions. Postphenomenology allows for an analysis of how digital technologies mediate human experiences, while dynamic material hermeneutics provides a framework for understanding the evolving meanings and values associated with these technologies.

Empirical data were collected through a mixed-methods approach, combining qualitative and quantitative techniques to capture both the tangible and intangible dimensions of digital value. Qualitative data were gathered through in-depth interviews with technology users across various contexts, including education, healthcare, and social media. These interviews sought to uncover the participants' lived experiences and perceptions of digital technologies, focusing on how these tools influence their daily lives and sense of self. The qualitative data were then analyzed using thematic analysis to identify recurring patterns and themes related to digital value.

Quantitative data were collected through surveys designed to measure specific aspects of digital engagement, such as frequency of use, perceived usefulness, and satisfaction. These surveys aimed to provide a more objective measure of digital value, complementing the qualitative insights gained from the interviews. The quantitative data were analyzed using statistical methods to identify correlations and trends, providing a more comprehensive understanding of how digital technologies are perceived and valued by different user groups.

To ensure the validity and reliability of the findings, the study employed a triangulation approach, combining multiple data sources and methods. This approach allowed for a more nuanced analysis of digital value, capturing both the subjective experiences of users and the broader patterns of technological engagement. The integration of qualitative and quantitative data also enabled a more holistic understanding of the complex interplay between human experiences and digital technologies, providing a richer framework for exploring the concept of digital value.

Evaluation and Analysis:

The evaluation and analysis of the data collected reveal several key insights into the nature of digital value in human-technology relations. The qualitative analysis of interview data highlights the multifaceted ways in which digital technologies are integrated into users' daily lives, influencing their experiences, identities, and social interactions. Participants reported both positive and negative experiences with digital technologies, suggesting that digital value is not a static or uniform concept but rather a dynamic and context-dependent phenomenon.

The quantitative analysis of survey data supports these findings, indicating that users' perceptions of digital value are influenced by a range of factors, including technological design, ease of use, and perceived benefits such as convenience, efficiency, and enhanced communication. However, the data also reveal that digital technologies can contribute to feelings of anxiety, dependence, and alienation, suggesting a complex interplay between positive and negative outcomes. These findings underscore the importance of adopting a nuanced approach to understanding digital value, one that considers both the beneficial and detrimental effects of technology on human well-being.

The integration of qualitative and quantitative findings provides a more comprehensive picture of digital value in human-technology relations. It highlights the need for a multidimensional framework that accounts for both the tangible and intangible aspects of digital engagement. The analysis also suggests that digital value is not merely a product of technological capabilities but is co-constructed through the interactions between humans and technology. This perspective aligns with the principles of postphenomenology and dynamic material hermeneutics, which emphasize the co-constitutive nature of human-technology relations and the evolving meanings and values associated with digital artifacts.

Results:

The results of the study provide a deeper understanding of how digital technologies shape and are shaped by human experiences and perceptions. The findings indicate that digital value is a multifaceted construct that encompasses both quantitative and qualitative dimensions. On the one hand, digital technologies offer tangible benefits such as increased efficiency, convenience, and access to information. On the other hand, they also have intangible effects on users' experiences, identities, and social relationships.

The survey data reveal that users generally perceive digital technologies as valuable tools that enhance their daily lives, particularly in terms of communication, productivity, and entertainment. However, the interview data suggest a more complex picture, with participants expressing ambivalence about the impact of digital technologies on their well-being. Many participants reported experiencing both positive and negative emotions related to their use of digital technologies, highlighting the dual nature of digital value.

The findings also suggest that digital value is not a fixed or static concept but is continually negotiated and reinterpreted through human-technology interactions. This dynamic nature of digital value is reflected in the diverse ways participants engage with digital technologies, with some users adopting a more instrumental approach, focusing on the practical benefits of technology, while others adopt a

more expressive approach, using technology as a means of self-expression and social connection. These variations in user engagement highlight the need for a more nuanced understanding of digital value that considers the diverse ways in which digital technologies are integrated into users' lives.

Overall, the results of the study provide valuable insights into the complex interplay between humans and digital technologies, emphasizing the need for a more comprehensive framework for understanding digital value. By integrating both quantitative and qualitative dimensions, the study offers a richer perspective on how digital technologies influence human experiences and perceptions, contributing to the broader field of digital humanities and philosophy of technology.

Discussion:

The discussion section delves into the implications of the study's findings for understanding digital value in human-technology relations. The results suggest that digital value is a multifaceted construct that cannot be adequately captured by traditional economic metrics alone. Instead, digital value should be understood as a dynamic and context-dependent phenomenon that encompasses both quantitative and qualitative dimensions. This perspective challenges conventional approaches to assessing the value of digital technologies, which often focus on measurable outcomes such as productivity gains or financial returns.

One of the key contributions of this study is its emphasis on the interpretive processes that shape digital value. By adopting a postphenomenological approach informed by dynamic material hermeneutics, the study highlights the active role of technology in mediating human experiences and shaping perceptions. This perspective suggests that digital technologies are not merely passive tools but are active participants in the co-construction of value. This insight has important implications for how we design, use, and evaluate digital technologies, suggesting that we need to consider not only the functional aspects of technology but also its experiential and interpretive dimensions.

The findings also have significant implications for the ethical and social dimensions of digital value. The study reveals that digital technologies can have both positive and negative effects on users' well-being, suggesting a need for a more balanced and nuanced approach to technology design and policy-making. For instance, while digital technologies can enhance communication and productivity, they can also contribute to feelings of anxiety, dependence, and alienation. These findings highlight the importance of considering the broader social and cultural contexts in which digital technologies are used and the potential ethical implications of their design and deployment.

Furthermore, the study's emphasis on the co-constitutive nature of human-technology relations has important implications for our understanding of agency and autonomy in the digital age. By highlighting the ways in which digital technologies mediate human experiences and shape perceptions, the study suggests that technology is not a neutral force but is deeply embedded in the social and cultural fabric of human life. This perspective challenges traditional notions of human agency and autonomy, suggesting that our interactions with technology are always situated within specific social, cultural, and historical contexts.

The discussion also explores the potential for future research in this area, particularly in terms of developing more comprehensive frameworks for understanding digital value that integrate both quantitative and qualitative dimensions. Future studies could build on the findings of this study by exploring how different user groups perceive and experience digital technologies, examining the role of cultural and social factors in shaping digital value, and investigating the ethical implications of digital technologies in different contexts.

Conclusion:

This article has reevaluated the concept of digital value in human-technology relations using a postphenomenological approach informed by dynamic material hermeneutics. The study has highlighted the multifaceted nature of digital value, emphasizing the need for a more comprehensive framework that integrates both quantitative and qualitative dimensions. By examining the interpretive processes that shape human-technology interactions, the study has provided new insights into the ways digital technologies influence human experiences and perceptions, contributing to the broader field of digital humanities and philosophy of technology.

The findings suggest that digital value is not a fixed or static concept but is continually negotiated and reinterpreted through human-technology interactions. This dynamic nature of digital value has important implications for how we design, use, and evaluate digital technologies, suggesting a need for more nuanced and context-sensitive approaches. The study also highlights the ethical and social dimensions of digital value, calling for greater attention to the potential positive and negative effects of digital technologies on human well-being.

In conclusion, this article has provided a richer perspective on digital value, moving beyond traditional economic definitions to encompass the broader social, cultural, and ethical dimensions that digital technologies bring into play. By adopting a postphenomenological approach and utilizing dynamic material hermeneutics, the study has contributed to ongoing debates in the field of digital humanities and philosophy of technology, offering new insights into the complex interplay between humans and digital technologies. Future research in this area should continue to explore the diverse ways in which digital technologies are integrated into human life, providing a more holistic understanding of digital value in the digital age.

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