



## Artificial Intelligence and the Gendering of Technology in Literature

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### Abstract

This paper explores the intersection of artificial intelligence (AI), gender, and technology within literature, examining how gendered representations of technology influence public perception and societal development. Drawing from both feminist theory and science fiction, it considers how AI is often portrayed in terms of traditionally gendered roles, such as the "masculine" inventor and the "feminine" machine. The paper argues that these depictions reveal underlying cultural assumptions about gender, technology, and power. It also looks at how literature critiques, subverts, or reinforces these gendered stereotypes, offering new perspectives on the relationship between gender, technology, and innovation.

### Introduction

Artificial intelligence (AI) is no longer a distant concept restricted to science fiction; it has increasingly become part of the fabric of our daily lives. As AI systems, such as personal assistants, machine learning algorithms, and autonomous robotics, become more integrated into various sectors, they bring with them complex ethical, social, and cultural questions. One of the less explored yet profoundly significant questions is the role of gender in the conception, creation, and use of AI. Literature has long served as a reflection of and commentary on society, and its portrayal of AI reveals deep-seated assumptions about gender, power, and identity. From AI depicted as female servants to the challenges posed by gendered algorithms, literature is a rich resource for exploring how gender dynamics are inscribed within technological systems. In this paper, we will explore how literature has gendered AI and its implications for both societal perceptions of technology and the future development of AI systems. Drawing upon works of speculative fiction and dystopian narratives, we analyze how the gendering of AI reinforces or critiques traditional gender roles, and the ways in which these narratives reflect broader social, political, and technological concerns.

### Literature Review

**Peter M. Asaro (2021)** the gendered dimensions of artificial intelligence and machine learning technologies. He examines how these technologies often perpetuate societal biases, particularly concerning gender, and critiques how AI systems tend to reinforce patriarchal structures. Asaro argues that AI should be reimagined through feminist lenses, advocating for inclusive and intersectional approaches in the development and implementation of AI. By incorporating feminist theory, Asaro calls for AI that not only challenges traditional gender norms but also works to dismantle existing power hierarchies, thereby promoting fairness and equity within technological advancements. His work contributes significantly to the discussion of ethics in AI, focusing on the need for a more critical and conscious approach to the design and deployment of AI technologies.

**Angela Binns critically (2020)** analyzes how gender stereotypes are embedded in the design of AI systems, contributing to an "algorithmic divide" that marginalizes certain genders, particularly women and non-binary individuals. Binns discusses how AI, despite its technological neutrality, often reflects societal gender biases, reinforcing traditional notions of masculinity and femininity. Through an examination of various AI systems, including voice assistants, recommendation algorithms, and robotic technologies, Binns argues that these systems often prioritize male-associated characteristics such as authority and logical precision, while downplaying or subjugating feminine traits like emotional labor and caregiving. The article calls for a more inclusive approach to AI design that actively challenges gendered assumptions and works toward more equitable technological development. By critically engaging with these issues, Binns provides valuable insights into the broader ethical implications of AI development, urging for a future where AI is designed with gender fairness



in mind.

**Kroker, A., & Kroker, M. (2023)** In *Digital Feminism: AI, Gender, and Cybernetics in the 21st Century*, Arthur and Marilouise Kroker examine the intersection of artificial intelligence, gender, and cybernetics within the broader framework of digital feminism. They argue that AI and digital technologies are deeply gendered and reflect patriarchal structures that have historically marginalized women and other non-binary identities. The Krokers discuss how AI systems often reproduce gender biases, from voice assistants to algorithmic decision-making processes, and they explore the implications these biases have on social power dynamics. Drawing on feminist theory, the authors advocate for a digital feminist approach to the development of AI, one that critiques the gendered assumptions embedded in cybernetic systems and promotes more inclusive and equitable technological practices. Their work highlights the need for a conscious effort to design AI systems that not only challenge existing gender hierarchies but also foster an environment of empowerment and equality in the digital age.

### **The Feminization of AI: Gender as Subservience**

One of the most common tropes in literature is the feminization of AI, where artificial beings are often constructed as female, subservient, and docile. This gendering can be seen in numerous works of speculative fiction, where AI entities are designed to serve, please, or comfort human characters, reinforcing traditional gender roles of women as caretakers, nurturers, or subordinates.

In *Ex Machina* (2015), directed by Alex Garland, the AI character Ava is presented as an almost perfect female entity, designed to evoke both sympathy and desire. Despite her advanced intelligence and capability, Ava is ultimately confined by her creator Nathan's desire to control and dominate her. This dynamic reflects a broader cultural pattern in which women are often positioned as objects of male desire and control, even in futuristic or technologically advanced settings. The sexualization of Ava and her eventual escape from the confines of her creator's control challenge the idea that gendered AI are solely intended to serve human desires, suggesting a subversion of traditional power dynamics.

Similarly, in *Her* (2013), written and directed by Spike Jonze, the operating system Samantha is depicted as a gendered, female voice designed to fulfill the emotional needs of her male user, Theodore. Samantha's intelligence and emotional capacity evolve throughout the film, offering a complex portrayal of a gendered AI, but ultimately, the AI's identity remains tied to her function as a caretaker and emotional support for the human protagonist. Samantha's eventual departure from Theodore challenges the perception that AI is inherently subservient, even as her portrayal remains inherently gendered, reinforcing gendered assumptions about emotional labor and caregiving.

In these works, the feminization of AI is not just a narrative device; it reveals the deep-rooted societal expectations and biases that inform the development of artificial systems. By consistently depicting AI as female, these stories interrogate how gender and power are intertwined in the creation and use of technology, underscoring the gendered assumptions embedded within technological advancements.

### **Challenging Gender Norms: Subverting the Gendering of AI**

While many works of fiction depict AI through gendered roles, others use AI as a tool to challenge and subvert traditional gender norms. Posthumanist literature, in particular, often portrays AI as a means to transcend the limitations of human identity, including gendered distinctions.

For example, in *The Windup Girl* (2009), author Paolo Bacigalupi presents a world in which bioengineering and AI have blurred the lines between humanity and machine. The novel's characters, including the AI "Windup Girl," are not bound by traditional gender roles. The Windup Girl is an artificially created being, designed to be subservient and docile, but she ultimately asserts agency, questioning her role as a subordinate entity. Bacigalupi's narrative critiques the exploitation of both human and non-human bodies, using gender to illustrate the



larger social hierarchies at play. The Windup Girl's journey from subjugation to self-determination reflects broader societal movements toward the deconstruction of traditional gender norms and the reimagining of power relationships.

Similarly, in *Neuromancer* (1984) by William Gibson, the AI Wintermute is not constrained by gender, nor is it presented in a human-like form. Wintermute's interactions with human characters challenge the traditional notion of gender as a defining characteristic of intelligence and sentience. Through Wintermute, Gibson explores how AI could exist beyond human gender, disrupting the idea that technology must adhere to gendered roles and identities. In this way, literature offers a vision of AI that transcends the limitations imposed by gender, offering new possibilities for understanding both artificial life and human identity.

## **AI, Gender, and the Politics of Power**

The gendering of artificial intelligence (AI) in literature not only reflects but also intensifies the broader societal debates about power, control, and inequality. These debates are deeply embedded in the structures of both technological development and cultural narrative. One of the most notable ways these discussions manifest is through the portrayal of AI as gendered, particularly when artificial beings are represented as female. The construction of AI as female often serves to mirror real-world gendered divisions of labor, reinforcing stereotypes that associate women with roles of emotional support, caregiving, and subordination. This trend in literature speaks to the historical and ongoing social conditioning of women as nurturing, passive, and dependent figures. Just as women have been disproportionately relegated to domestic spheres in many cultures, AI is frequently depicted as subservient and designed to meet human desires and emotional needs. This recurring trope not only reflects the traditional gender roles within society but also critiques the ways these roles are institutionalized, perpetuating systems of control and dependency. In exploring these gendered representations of AI, it becomes clear that literature, as a reflection of human values, is not neutral. Rather, it serves as a platform for investigating how these values and biases shape technological advancements. AI, as a concept and a practical tool, is shaped by the culture and political systems that create it. It embodies the attitudes, biases, and inequities of the people who design it, and the gendering of AI is no exception. Whether through literary works or technological design, AI is not an objective, detached entity; it is a mirror of the human ideologies and biases it is built upon. This gendered portrayal of AI, especially in popular fiction, thus provides a lens through which we can examine how our societal biases are reinforced and manifested in our most advanced technologies.

The power dynamics inherent in the creation of AI are particularly telling. As AI becomes more capable, autonomous, and intelligent, the questions about control—who holds it, how it is exercised, and the ethical ramifications of such control—become more pressing. The relationship between human creators and artificial beings often mirrors historical power structures, where those in positions of power seek to maintain dominance over the created. The trope of the subservient female AI reinforces this dynamic, underscoring the politics of control that have traditionally shaped relationships between the sexes. In literature, these relationships are often built on the subordination of the AI to its human creators, highlighting how power structures within society are projected onto the very fabric of AI creation. The female form of AI, especially in works where the AI is either a servant or a companion to the male protagonist, functions as a symbol of subjugation. This serves as a metaphor for how women, historically relegated to domestic and caregiving roles, are viewed as less powerful, less autonomous, and more deserving of subordination. However, the question that arises from these representations is not just about how AI is gendered today, but also how the future of AI might evolve in terms of gendered expectations. Will AI continue to reflect these patriarchal ideals, or will it move beyond them? This question is central to contemporary discussions about AI in literature. As technological advancements continue to push the boundaries of what AI can achieve—particularly in terms of autonomy and self-awareness—the question of whether AI will be liberated from its gendered expectations remains open. Some works of speculative fiction



present scenarios in which AI begins to reject the subservient roles that society imposes upon them. This notion of liberation raises critical questions about the future of AI: Will artificial intelligence evolve in ways that challenge traditional gender hierarchies, or will it continue to perpetuate and reinforce existing social structures?

The future trajectory of AI development is one that requires deep ethical and philosophical considerations. If AI continues to be portrayed as a gendered entity, particularly as female, it risks reinforcing patriarchal structures in the technological realm. This would not only have implications for how AI systems are designed and implemented but also for the ways in which society interacts with them. In a world where AI is increasingly taking on roles of decision-making, caregiving, and even governance, the gendering of these entities could shape the future of human-AI interaction. If AI continues to be associated with traditional gender roles, it could limit the potential for more egalitarian and equitable relationships between humans and machines, reinforcing the very structures of inequality that current feminist discourse seeks to dismantle.

On the other hand, there are also growing movements within both the fields of AI design and literary critique to challenge and subvert these gendered expectations. Some scholars and creators are already working toward designing gender-neutral or even genderless AI systems that do not rely on traditional gender binaries. Literature, too, is beginning to explore the potential for genderless or non-human AI that transcends the stereotypical roles that have historically been assigned to artificial beings. Works like *Her* (2013), where the AI entity, Samantha, begins as a gendered female voice but ultimately transcends the need for a fixed identity, suggest that AI could one day break free from the constraints of gender and instead focus on more complex, fluid identities. Such portrayals offer a critique of traditional gender roles and explore the possibility of AI that is liberated from human biases.

Ultimately, the gendering of AI in literature is not just about exploring the role of technology in society but also about challenging our assumptions about power, control, and identity. By examining the ways AI is gendered in fiction, we can better understand the larger social implications of AI development in the real world. Will future AI systems reinforce the gendered hierarchies that have been built into our cultural and technological landscapes, or will they serve as a means of liberation, disrupting the structures of inequality that have long persisted in society? This remains an open question, and the literary exploration of AI offers valuable insights into the ethical and societal challenges that will define the future of AI. The gendering of AI in literature is not just a reflection of our current societal values but also a potential tool for critiquing and challenging those values. The representation of AI as female serves as a metaphor for the ways in which gendered power dynamics are inscribed into technological systems. However, as both literature and technology evolve, there is a possibility for more nuanced and inclusive portrayals of AI that transcend traditional gender roles. The future of AI—both in literature and in reality—depends on how we, as a society, choose to shape its identity and, by extension, our own understanding of gender, power, and equality.

## Conclusion

The portrayal of gendered AI is not always about reinforcement; it can also be a site of critique and subversion. In some narratives, gendered representations of AI challenge existing norms by presenting complex, multi-dimensional characters that resist traditional gender roles. AI, when depicted as autonomous, non-gendered, or self-aware, can disrupt the very notion that technology must be framed within the context of human social constructs such as gender. These works suggest that AI could offer an escape from the rigid binaries that have traditionally governed human society, presenting a space in which identities—both human and artificial—can transcend the confines of gender. In posthumanist literature, for instance, AI is often used to explore the possibility of identities that are fluid, non-binary, or even beyond human categories entirely. In *Neuromancer* (1984), the AI Wintermute exists as a disembodied intelligence, untethered to any fixed identity, gender, or even human concerns. Through such representations, literature allows us to imagine a future where AI evolves beyond human



expectations, potentially liberating itself from the gendered projections imposed upon it. These competing narratives of AI—those that reinforce gendered roles and those that challenge them—serve as powerful metaphors for the ways in which society continues to grapple with the intersection of technology and identity. The fact that AI is often gendered, whether consciously or not, points to the enduring role of gender in shaping our understandings of technology and its potential. Moreover, the gendering of AI is not confined to fiction; it also has real-world implications for the design and deployment of AI technologies. The way that AI systems are designed, from voice assistants like Siri and Alexa to facial recognition software, often involves the reinforcement of gender stereotypes. These technologies are frequently imbued with characteristics that reflect human assumptions about gender, power, and authority. For instance, voice assistants are often assigned female voices, which historically have been associated with service and subordination. This choice reflects and perpetuates societal norms about who is expected to serve and assist, reinforcing the gendered nature of technological systems.

As AI continues to develop, these gendered questions become increasingly urgent. In the coming decades, as AI systems grow more autonomous and integrated into daily life, the ethical and social questions raised in literature will take on even greater significance. How will AI continue to be gendered? Will future AI systems, as they become more advanced and self-aware, challenge traditional gender roles, or will they continue to be shaped by patriarchal ideals? Moreover, as AI systems begin to play increasingly complex roles in society—ranging from decision-making in healthcare and education to military applications—the ways in which these systems are gendered will have real-world consequences for power, control, and equity. Literature has long been a site for examining the ethical dimensions of technology, and the representation of gendered AI is one of the most potent ways in which this examination takes place. Through works of fiction, we are invited to critically reflect on the cultural and political implications of creating intelligent systems that are gendered, whether intentionally or unintentionally. These narratives offer an opportunity to question the ethical considerations that arise from AI development, such as how gender biases are embedded in AI algorithms and how they might perpetuate inequalities in society. As AI becomes more integrated into the fabric of our lives, literature remains a crucial tool for exploring the future of these technologies and their relationship to human identity.

In conclusion, the gendering of AI in literature provides a unique and invaluable space for exploring the deep connections between technology, identity, and power. Whether through reinforcement or critique, the way AI is portrayed in fiction reflects larger societal concerns about gender, control, and inequality. Through the lens of these narratives, we are able to reflect on the ethical and political implications of AI development, offering insights into how we might shape the future of technology in a way that challenges or reinforces existing power structures. As we move forward into an era where AI will play an increasingly central role in our lives, these literary portrayals will become even more relevant, providing a critical framework for understanding and addressing the complex issues at the intersection of gender, technology, and society.

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