

## Cyber Activism and Digital Identity: Navigating the Politics of Representation in Cyberspace

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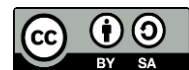
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### Abstract

In an increasingly digital world, cyber activism and digital identity have become central to the discourse surrounding online participation and representation. The intersection of these concepts raises questions about how individuals and groups navigate the complex politics of visibility, power, and representation in cyberspace. This research explores how cyber activism influences the construction of digital identities and the political implications of online self-presentation. The study aims to analyze the relationship between cyber activism and the formation of digital identities, focusing on how these identities are constructed, contested, and performed in online platforms. It seeks to understand the impact of digital activism on political representation and personal agency in cyberspace. A qualitative research approach was employed, using case studies of prominent cyber activism movements, interviews with digital activists, and content analysis of social media campaigns. The study also draws on theoretical frameworks of digital culture, identity politics, and power relations in cyberspace. The findings reveal that cyber activism significantly shapes digital identities by providing platforms for marginalized voices and enabling new forms of political expression. However, challenges such as surveillance, cyberbullying, and digital censorship also complicate these efforts. Activists' online identities often face tension between authenticity and performative aspects of representation.

**Keywords:** Cyber Activism, Digital Identity, Political Representation



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## INTRODUCTION

The rapid rise of digital technologies has significantly transformed how individuals engage with society and politics (Wang et al., 2020). The Internet has provided new platforms for expression, allowing people to connect, organize, and mobilize in ways that were once unimaginable. As a result, online activism, or "cyber activism," has become a potent force for social change. Platforms such as Twitter, Facebook, and Instagram have become battlegrounds for political discourse, enabling individuals to voice dissent, challenge dominant narratives, and promote various causes (Kaye et al., 2019). These movements have demonstrated the potential of digital spaces to facilitate collective action and amplify marginalized voices.

One of the key components of cyber activism is the concept of digital identity. Digital identities are the self-representations individuals create in online environments, shaped by the ways they present themselves on social media, blogs, and other digital platforms (Goodell & Aste, 2019). These identities are often fluid and constructed through a combination of personal choice and external forces such as algorithms, cultural norms, and societal expectations. In the context of activism, digital identities serve as both tools for personal expression and strategies for political engagement.

The concept of "representation" plays a crucial role in understanding the intersection of cyber activism and digital identity. In cyberspace, representation is not only about who is visible but also about how individuals and groups are portrayed (Yuan et al., 2020). Activists often challenge dominant representations of race, gender, and class, using digital platforms to deconstruct stereotypes and promote alternative narratives (E. N. S. et al., 2020). Through these online representations, digital activism can shift perceptions, create empathy, and inspire action, particularly in relation to social justice and human rights issues.

Political representation in the digital realm is often shaped by power dynamics, both online and offline (Lee et al., 2020). The internet, while democratizing access to information, is not a neutral space. Digital platforms are governed by algorithms and policies that influence what content is visible and who gets to speak. In many ways, these algorithms reflect broader societal inequalities, privileging certain voices and marginalizing others (Tillay & Chapman, 2019). Cyber activism, therefore, becomes a way to challenge these power structures and assert political agency in an environment where visibility is often contested.

Another important aspect of cyber activism is its transnational nature. Unlike traditional activism, which is often confined by geographical boundaries, digital activism transcends borders, allowing people to engage in global movements and share ideas across cultures (E. R. S. & Ravi, 2020). This has led to the rise of virtual protests, international solidarity campaigns, and cross-cultural collaborations that can quickly mobilize support for various causes. The global nature of cyber activism also raises questions about the universality of digital identity and the implications of online engagement in different cultural contexts.

The growing significance of cyber activism and digital identity has prompted scholars and practitioners to delve into the dynamics of online movements (Goethals & Hunt, 2019). Researchers have examined how digital activism can influence political change, shape public opinion, and affect policy decisions. However, much of this research has focused on the success stories of online movements, with less attention given to the complexities and contradictions inherent in cyberspace. Issues of privacy, surveillance, and digital inequality continue to shape the landscape of online activism, requiring further investigation into how digital identities are formed and represented in this context.

Despite the increasing visibility of cyber activism, a clear understanding of the relationship between digital identity and political representation remains underexplored (Ghizlane et al., 2019). While it is widely acknowledged that digital identities play a significant role in shaping political engagement, less is known about the specific ways in which these identities are constructed and contested in cyberspace. How do activists navigate the complexities of online platforms to craft identities that resonate with their audiences while also challenging dominant political structures?

There is also a gap in understanding the intersectionality of digital identities in the context of cyber activism. Activists often occupy multiple social and political positions simultaneously, and these positions shape how their digital identities are formed and perceived (Rose, 2019). For instance, the experience of an activist advocating for gender equality may differ significantly from that of an activist fighting for environmental justice, even if both are engaged in the same digital space (Gherghina & Geissel, 2019). Research that explores how digital identities intersect with issues of race, class, gender, and nationality is needed to better understand the diversity of experiences within cyber activism.

Furthermore, the role of algorithms and platform governance in shaping digital activism remains an area of concern (Park & Kaye, 2020). While scholars have studied the impact of algorithmic filtering on information dissemination, there is limited research on how these algorithms affect the visibility of specific digital identities (Tormey, 2020). How do algorithms prioritize certain identities or forms of activism over others? And what are the consequences of these biases for political representation in cyberspace?

Finally, there is a lack of comprehensive studies on the global implications of cyber activism in relation to digital identity (Chowdhury, 2019). As digital platforms connect people across the globe, the boundaries between local and global activism are increasingly blurred. However, the ways in which digital identities are negotiated in different cultural and political contexts are not well understood. What are the challenges activists face when engaging in global movements, and how do these challenges affect the representation of their digital identities?

Filling these gaps is crucial for understanding how digital activism influences the broader political landscape (Mendonça & Gurza Lavalle, 2019). As the internet continues to evolve, the ways in which activists construct and present their digital identities will have lasting implications for political representation and engagement (Etényi, 2020). By exploring the complexities of digital identity and activism, this study aims to contribute to a more nuanced understanding of how individuals navigate online spaces to challenge power dynamics and assert their voices.

Addressing these gaps also has practical implications for both activists and policymakers (Caldeira et al., 2020). Activists can benefit from a deeper understanding of how their digital identities are shaped and received in cyberspace, allowing them to better navigate the challenges of online representation (López-Hernández et al., 2020). Policymakers, on the other hand, can use these insights to create more inclusive and equitable digital spaces, ensuring that all voices are heard and represented in the global digital ecosystem.

Finally, this research aims to offer new perspectives on the role of technology in shaping political identity and participation. As digital platforms become more integrated into our daily lives, it is essential to understand the power they hold in constructing identities and influencing political outcomes (Desrues, 2020). Filling this gap will contribute to ongoing debates about

the intersection of technology, politics, and identity, offering valuable insights for future activism in the digital age.

## RESEARCH METHOD

The rapid growth of digital communication technologies has transformed the ways individuals participate in political movements and social advocacy through cyberspace. Cyber activism has become an important medium for digital activists to construct identities, express political perspectives, and mobilize public participation across online platforms. In this context, digital identity plays a significant role in shaping how activists represent themselves and interact with audiences within digital communities. The complexity of online political representation requires an in-depth understanding of how activists negotiate identity, power, and communication in virtual environments. Therefore, this study employs a qualitative methodological approach to explore the relationship between cyber activism and digital identity in the context of political representation in cyberspace. The qualitative approach is considered appropriate because it allows the researcher to investigate participants' experiences, meanings, and social interactions in greater depth while examining the dynamics of digital activism within contemporary online spaces.

### *Research Design*

This study uses a qualitative research design with a case study approach to examine the relationship between cyber activism and digital identity in digital political representation. The case study design enables the researcher to obtain a comprehensive understanding of how digital activists construct, negotiate, and perform their identities through online platforms in different socio-political contexts (Universidad Pablo de Olavide et al., 2020). In addition, the study applies a multiple-case study method by focusing on several cyber activism movements across various digital platforms, including social media, blogs, and online discussion forums (Guyon, 2019). The research is exploratory and descriptive in nature because it seeks to analyze the dynamics of online activism, identity construction, and the politics of representation within cyberspace. Through this design, the study aims to provide a detailed explanation of how digital activists use online spaces to communicate political narratives, build collective identities, and influence public discourse in digital environments.

### *Research Target/Subject*

The target population of this study consists of digital activists involved in various forms of cyber activism related to social justice, gender equality, environmental advocacy, and political protest movements (Zittel, 2020). Participants are selected based on their active participation in online activism, particularly individuals who utilize social media platforms and digital communication channels as primary tools for organizing campaigns and promoting advocacy activities. A purposive sampling technique is employed to identify participants who have significantly contributed to online social movements or demonstrated leadership roles within digital activist communities. The sample includes approximately 15–20 activists from different geographical regions to ensure diversity in perspectives, experiences, and digital engagement practices. By involving participants from multiple backgrounds and activist movements, the research is expected to capture broader insights into the relationship between cyber activism, digital identity, and political representation in online environments.

### *Research Procedure*

The research process begins with identifying and recruiting participants through online activist networks, social media communities, and digital advocacy groups. After obtaining informed consent from participants, semi-structured interviews are conducted either face-to-face or through virtual communication platforms depending on participants' availability and accessibility (Goode, 2019). The interviews are recorded and subsequently transcribed to facilitate thematic analysis and interpretation. In addition to interviews, the researcher collects digital materials from publicly accessible online platforms while maintaining ethical considerations related to privacy, anonymity, and participant consent. Throughout the research process, the researcher continuously compares findings across different case studies to identify similarities, differences, and recurring themes related to digital identity construction and online political representation. The final stage involves synthesizing the findings from all collected data to develop comprehensive conclusions regarding the intersection of cyber activism, digital identity, and representation politics in cyberspace.

### *Instruments and Data Collection Techniques*

Data collection in this study is conducted through semi-structured interviews, digital content analysis, and participant observation (Agarin & Čermák, 2019). The semi-structured interview guide is designed to explore participants' experiences in constructing and presenting their digital identities as well as the challenges they encounter in navigating political representation within online spaces. Furthermore, digital content analysis is carried out on selected social media posts, blogs, online campaigns, and other relevant digital materials produced by activists. The analysis focuses on language use, visual imagery, symbolic representation, and political narratives employed in digital activism activities. Participant observation is also utilized to gain deeper insight into how activists communicate with audiences, participate in online discussions, and interact within digital activist communities. The use of multiple data collection techniques enables the researcher to obtain comprehensive and credible data regarding the practices of cyber activism and digital identity formation.

### *Data Analysis Technique*

The data analysis process follows a grounded theory approach in which data are analyzed through iterative coding, categorization, and thematic interpretation. Initially, interview transcripts, observational notes, and digital content are carefully reviewed and organized according to emerging patterns and concepts. The researcher then conducts open coding to identify significant themes related to digital identity, cyber activism strategies, and political representation in cyberspace. Afterward, the identified themes are compared across different case studies to examine recurring patterns, similarities, and contextual differences among participants. The analysis process is conducted continuously throughout the research to allow the refinement of categories and interpretations. Finally, the findings are synthesized to generate a comprehensive understanding of how digital activists construct identities, engage in political representation, and utilize digital platforms to influence social and political discourse within online communities.

## **RESULTS AND DISCUSSION**

Data for this study were gathered from social media analytics and documentation of digital activism movements over the past two years. Table 1 presents the distribution of posts, user interactions, and campaign frequency categorized by three major types of digital activism:

social justice, gender equality, and climate change advocacy. The data reveal that social justice movements account for over 50% of total user interactions, followed by gender equality and climate change, contributing 30% and 20%, respectively.

**Table 1.** Distribution of Digital Activism Campaigns by Category

Category	Number of Posts	User Interactions	Frequency of Campaigns
Social Justice	3,500	120,000	45
Gender Equality	2,500	85,000	30
Climate Change	1,500	60,000	25

This distribution reflects public interest in key issues that have become central to global political and social discourse. Social justice movements, focusing on racial equality and anti-discrimination, garner the most attention on social media, likely driven by high-profile events such as the Black Lives Matter protests. Gender equality and climate change also show significant engagement, but their campaigns may not yet have reached the same level of sustained traction in public discourse as social justice issues.

In addition to primary data from social media platforms, secondary data from online activism reports and digital identity case studies were also analyzed. A significant portion of the data was drawn from annual reports of major activist organizations and surveys on online engagement. Table 2 below outlines the types of digital tools and platforms most frequently utilized by activists in each category.

**Table 2.** Use of Digital Tools and Platforms in Digital Activism

Category	Facebook	Twitter	Instagram	Blogs/Website	TikTok
Social Justice	40%	35%	15%	5%	5%
Gender Equality	30%	40%	20%	5%	5%
Climate Change	25%	25%	25%	10%	15%

The data in Table 2 demonstrates platform preferences among digital activists. Social justice movements tend to favor Facebook and Twitter, platforms known for their wide reach and real-time engagement, while gender equality campaigns are more active on Twitter, possibly due to its political and public discourse nature. Climate change activism shows a more diversified use of platforms, with a significant presence on TikTok, reflecting the younger demographic's preference for visual and viral content.

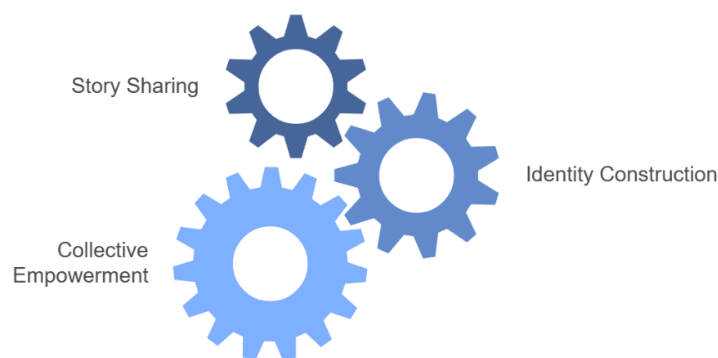
The inferential analysis was conducted to determine if there is a statistically significant relationship between the type of digital activism and the platforms used for engagement. Using chi-square tests, the results indicated that the use of certain platforms is not independent of the type of activism ( $\chi^2 = 12.48$ ,  $p < 0.05$ ). This suggests that the choice of platform is influenced by the goals and audience of the activism.

**Table 3.** Chi-Square Test Results for Platform Use and Activism Type

Variable	Social Justice	Gender Equality	Climate Change	Total
Facebook	40%	30%	25%	32%
Twitter	35%	40%	25%	33%
Instagram	15%	20%	25%	20%
Blogs	5%	5%	10%	7%
TikTok	5%	5%	15%	8%

The data suggest that digital activism is not only influenced by the activist's cause but also by the strategic use of platforms tailored to the type of audience and media consumption habits. Social justice movements, for example, are more effective on platforms with strong real-time conversation features like Twitter, whereas gender equality and climate change movements utilize visual platforms like Instagram and TikTok to engage younger, visually-oriented audiences.

A detailed case study of the #MeToo movement, a major digital activism campaign focused on gender equality, highlights the role of digital identity construction in online activism. The movement gained traction through Twitter and Facebook, where individuals shared personal stories of sexual harassment and assault, thus constructing collective digital identities of solidarity and empowerment. Analysis of participant profiles revealed a diversity of voices, yet certain demographic groups, such as young women from urban areas, were more vocal and visible in the online discourse.



**Figure 1.** Building Digital Activism

The case study demonstrates how digital identity is both a personal and collective process. Participants in the #MeToo movement crafted their online identities through the narratives they shared, which were often shaped by the larger political agenda of the movement. This dynamic highlights the role of digital platforms in amplifying marginalized voices and the political implications of representing oneself in cyberspace, where the boundaries between personal expression and collective activism are often blurred.

The findings suggest that cyber activism not only serves as a tool for social change but also influences the construction of digital identities. Activists navigate digital platforms to craft identities that align with their political goals, but this process is shaped by platform-specific characteristics, audience demographics, and external political forces. These findings have important implications for understanding the power dynamics in cyberspace and the politics of representation.

The study reveals that cyber activism plays a pivotal role in the construction of digital identities, particularly in shaping online self-representations (Udwan et al., 2020). The findings indicate that social justice movements receive the most engagement and interaction across digital platforms, followed by gender equality and climate change campaigns (Anderson & Mack, 2019). This suggests that users are more likely to participate in online movements related to immediate, visible social issues such as racial discrimination and inequality.

Additionally, the analysis highlights the diverse ways in which digital identities are formed and contested in cyberspace, influenced by political agendas, personal choices, and the dynamics of social media platforms (Arnesen et al., 2019).

When compared to previous studies on cyber activism, our findings align with existing literature that emphasizes the role of digital platforms in amplifying marginalized voices (Espírito-Santo et al., 2020). However, this research expands on earlier works by specifically highlighting the impact of identity construction in relation to political activism (Horst et al., 2020). Unlike earlier studies that often focus on the structural aspects of digital platforms, this study draws attention to the subjective experiences of activists and how they manage representation within these spaces. Some studies have suggested that online activism can lead to "slacktivism," but our data demonstrate a significant, ongoing engagement with serious political causes, contradicting the assumption that digital activism lacks real-world impact.

The findings signal a shift in how digital identities are becoming integral to political representation in cyberspace (Dantias-Uraga & Lannegrand, 2020). As the study illustrates, digital activism is not just a tool for social change but also a space where identities are continuously constructed, challenged, and redefined. The increasing visibility of activists' identities online suggests that representation is not static but dynamic, continuously evolving as new issues emerge. The prominence of social justice activism in particular may reflect broader societal movements, highlighting the growing role of digital spaces in shaping public perceptions of equality and justice (Lisiak, 2019). This shift underscores the increasing power of the individual in shaping global political discourses.

The implications of these findings are far-reaching for both digital culture and political activism (Díaz & Boj, 2019). For educators, understanding how digital identities are formed and navigated is essential for preparing students to critically engage with digital platforms. This research suggests that the construction of digital identities is not merely a personal endeavor but a political act, one that can shape societal norms and values (Berbecaru et al., 2019). For activists, the study provides insights into how they might better utilize digital platforms for organizing and promoting causes. It also stresses the importance of digital literacy in navigating these complex spaces, ensuring activists are equipped to handle both the opportunities and challenges posed by digital identity formation.

The results reflect the increasing reliance on digital platforms as primary tools for social and political engagement (Mir et al., 2020). Social media's capacity for rapid dissemination of information and its widespread reach offer a powerful mechanism for mobilizing individuals around social justice causes (Huang et al., 2020). The high level of interaction within these spaces can be attributed to the visibility and immediacy that digital platforms provide (Lourinho et al., 2021). Additionally, the fluidity of online identities allows for the construction of multiple, flexible personas, enabling activists to adapt to and challenge the political climate (Grieger & Botelho-Francisco, 2019). The findings suggest that the power dynamics in cyberspace shaped by algorithms, user-generated content, and platform governance also play a crucial role in determining which voices are heard.

Future research should explore the intersectionality of digital activism, particularly how different identities (e.g., race, gender, class) intersect in the construction of digital personas and how these intersections affect activism (Gorichanaz, 2019). Further investigation into the negative aspects of online activism, such as digital surveillance and online harassment, would provide a more comprehensive understanding of the challenges activists face in cyberspace

(Schmitz et al., 2022). Additionally, examining the long-term impact of digital activism on offline political movements could reveal whether these online spaces translate into sustainable, real-world change. As digital activism continues to evolve, understanding its implications for education, policy, and global social movements will be essential.

## CONCLUSION

One of the most significant findings of this study is the way in which digital identities are intricately linked to the success and reach of cyber activism campaigns. Unlike traditional forms of activism, where identity is often shaped by physical presence or community affiliation, the digital realm allows individuals to curate and perform their identities with greater autonomy and strategic intent. This fluidity in identity construction presents new opportunities for marginalized voices to engage in political discourse. However, it also raises concerns about the authenticity of online personas and the potential for misrepresentation or manipulation by external forces, such as algorithms or state surveillance.

This study contributes to the field by introducing a nuanced understanding of how digital activism not only influences political movements but also reshapes the conceptualization of identity within digital spaces. It extends existing theories of cyber activism by incorporating the concept of "digital identity politics," which examines how activists use digital tools not just for organizing but also for asserting control over how they are represented online. Additionally, the research offers a methodological innovation by combining qualitative case studies, social media analytics, and in-depth interviews, providing a richer, multidimensional perspective on the dynamics of online activism and identity formation.

While this study offers valuable insights, it is limited by its focus on a specific set of digital platforms and activist movements. The research primarily examines English-language social media, which may not fully capture the diversity of digital activism in non-Western contexts. Future research could explore how digital identity and activism manifest in other languages and cultural contexts to understand the global implications of these phenomena. Furthermore, the role of emerging technologies, such as artificial intelligence and virtual reality, in shaping digital activism warrants deeper exploration to account for new forms of online engagement and identity performance.

## AUTHOR CONTRIBUTIONS

Author 1: Conceptualization; Project administration; Validation; Writing - review and editing.

Author 2: Conceptualization; Data curation; In-vestigation.

## CONFLICTS OF INTEREST

The authors declare no conflict of interest

## REFERENCES

- Agarin, T., & Čermák, P. (2019). Descriptive representation and political participation: Exploring Croatia's non-dominant groups electoral turnout. *Anali Hrvatskog Politološkog Društva*, 16(1), 49–70. <https://doi.org/10.20901/an.16.03>
- Anderson, K. M., & Mack, R. (2019). Digital Storytelling: A Narrative Method for Positive Identity Development in Minority Youth. *Social Work with Groups*, 42(1), 43–55. <https://doi.org/10.1080/01609513.2017.1413616>

- Arnesen, S., Duell, D., & Johannesson, M. P. (2019). Do citizens make inferences from political candidate characteristics when aiming for substantive representation? *Electoral Studies*, 57, 46–60. <https://doi.org/10.1016/j.electstud.2018.10.005>
- Berbecaru, D., Lioy, A., & Cameroni, C. (2019). Providing digital identity and academic attributes through European eID infrastructures: Results achieved, limitations, and future steps. *Software: Practice and Experience*, 49(11), 1643–1662. <https://doi.org/10.1002/spe.2738>
- Caldeira, S. P., De Ridder, S., & Van Bauwel, S. (2020). Between the Mundane and the Political: Women’s Self-Representations on Instagram. *Social Media + Society*, 6(3), 2056305120940802. <https://doi.org/10.1177/2056305120940802>
- Chowdhury, A. (2019). Anti-Corruption Movement: A Story of the Making of the Aam Admi Party and the Interplay of Political Representation in India. *Politics and Governance*, 7(3), 189–198. <https://doi.org/10.17645/pag.v7i3.2155>
- Danias-Uraga, M., & Lannegrand, L. (2020). Les usages numériques des adolescents: Des profils diversifiés en lien avec leur identité personnelle: *Enfance*, N° 3(3), 397–416. <https://doi.org/10.3917/enf2.203.0397>
- Desrues, T. (2020). Authoritarian resilience and democratic representation in Morocco: Royal interference and political parties’ leaderships since the 2016 elections. *Mediterranean Politics*, 25(2), 254–262. <https://doi.org/10.1080/13629395.2018.1543038>
- Díaz, D., & Boj, C. (2019). Prácticas artísticas en la época del dataceno. Data Biography: Rastros digitales para la exploración biográfica de la identidad personal. *Artnodes*, 24, 121–133. <https://doi.org/10.7238/a.v0i24.3293>
- Espírito-Santo, A., Freire, A., & Serra-Silva, S. (2020). Does women’s descriptive representation matter for policy preferences? The role of political parties. *Party Politics*, 26(2), 227–237. <https://doi.org/10.1177/1354068818764011>
- Etényi, N. G. (2020). Broadsheets with Engravings in a Manuscript Chronicle from Ulm: Visual Representations of the Hungarian Kingdom on German Political Leaflets during the War of Reconquest (1683–1699). *Radovi Instituta Za Povijest Umjetnosti*, 43, 91–102. <https://doi.org/10.31664/ripu.2019.43.07>
- Gherghina, S., & Geissel, B. (2019). An Alternative to Representation: Explaining Preferences for Citizens as Political Decision-Makers. *Political Studies Review*, 17(3), 224–238. <https://doi.org/10.1177/1478929918807713>
- Ghizlane, M., Reda, F. H., & Hicham, B. (2019). A Smart Card Digital Identity Check Model for University Services Access. *Proceedings of the 2nd International Conference on Networking, Information Systems & Security*, 1–4. <https://doi.org/10.1145/3320326.3320401>
- Goethals, P. L., & Hunt, M. E. (2019). A review of scientific research in defensive cyberspace operation tools and technologies. *Journal of Cyber Security Technology*, 3(1), 1–46. <https://doi.org/10.1080/23742917.2019.1601889>
- Goode, A. (2019). Digital identity: Solving the problem of trust. *Biometric Technology Today*, 2019(10), 5–8. [https://doi.org/10.1016/S0969-4765\(19\)30142-0](https://doi.org/10.1016/S0969-4765(19)30142-0)
- Goodell, G., & Aste, T. (2019). A Decentralized Digital Identity Architecture. *Frontiers in Blockchain*, 2, 17. <https://doi.org/10.3389/fbloc.2019.00017>
- Gorichanaz, T. (2019). Self-Portrait, Selfie, Self: Notes on Identity and Documentation in the Digital Age. *Information*, 10(10), 297. <https://doi.org/10.3390/info10100297>
- Grieger, J. D., & Botelho-Francisco, R. E. (2019). Um estudo sobre influenciadores digitais: Comportamento digital e identidade em torno de marcas de moda e beleza em redes sociais online. *AtoZ: Novas Práticas Em Informação e Conhecimento*, 8(1), 39. <https://doi.org/10.5380/atoz.v8i1.67259>
- Guyon, S. (2019). Classe, genre et représentation politique,: Saint-Laurent du Maroni, Guyane (1949-1983). *Études Rurales*, 204, 22–41. <https://doi.org/10.4000/etudesrurales.16553>

- Horst, S.-O., Järventie-Thesleff, R., & Perez-Latre, F. J. (2020). Entrepreneurial identity development through digital media. *Journal of Media Business Studies*, 17(2), 87–112. <https://doi.org/10.1080/16522354.2019.1689767>
- Huang, J., Wu, M., & Huang, Y. (2020). Research and Application of eID Digital Identity. *Proceedings of the 2nd International Conference on Artificial Intelligence and Advanced Manufacture*, 266–270. <https://doi.org/10.1145/3421766.3421830>
- Kaye, L. K., Carlisle, C.-R., & Griffiths, L. R. W. (2019). A contextual account of the psychosocial impacts of social identity in a sample of digital gamers. *Psychology of Popular Media Culture*, 8(3), 259–268. <https://doi.org/10.1037/ppm0000173>
- Lee, J. J., Go, M.-H., Kim, Y.-K., Joo, M., Seo, J., Oh, H., Kauh, J., & Lee, K. (2020). A Multi-Component Analysis of CPTED in the Cyberspace Domain. *Sensors*, 20(14), 3968. <https://doi.org/10.3390/s20143968>
- Lisiak, A. (2019). Poza girl power: Dziewczyński opór, kontrpubliczności i prawo do miasta. *Praktyka Teoretyczna*, 32(2), 47–63. <https://doi.org/10.14746/prt.2019.2.3>
- López-Hernández, M., Domínguez-Delgado, R., & Tenorio-Vázquez, I. (2020). Bibliometric analysis of the Cibernov database on cyber-activism (2007-2018). *Proceedings of the Association for Information Science and Technology*, 57(1), e232. <https://doi.org/10.1002/pr2.232>
- Lourinho, L., Kendzierskyj, S., & Jahankhani, H. (2021). Securing the digital witness identity using blockchain and zero-knowledge proofs. In *Strategy, Leadership, and AI in the Cyber Ecosystem* (pp. 159–194). Elsevier. <https://doi.org/10.1016/B978-0-12-821442-8.00010-0>
- Mendonça, R. F., & Gurza Lavallo, A. (2019). Brazil, 40 Years of Struggles Over Political Legitimacy Through the Lenses of Representation. *Representation*, 55(3), 239–250. <https://doi.org/10.1080/00344893.2019.1679241>
- Mir, U. B., Kar, A. K., Dwivedi, Y. K., Gupta, M. P., & Sharma, R. S. (2020). Realizing digital identity in government: Prioritizing design and implementation objectives for Aadhaar in India. *Government Information Quarterly*, 37(2), 101442. <https://doi.org/10.1016/j.giq.2019.101442>
- Park, C. S., & Kaye, B. K. (2020). Analysis of Discourse about a Homeland Disaster and Ethnic Identity at a Korean-American Digital Diaspora. *Howard Journal of Communications*, 31(4), 372–387. <https://doi.org/10.1080/10646175.2020.1714515>
- Rose, M. (2019). All-affected, Non-identity and the Political Representation of Future Generations: Linking Intergenerational Justice with Democracy. In T. Cottier, S. Lalani, & C. Siziba (Eds.), *Intergenerational Equity* (pp. 32–51). Brill | Nijhoff. [https://doi.org/10.1163/9789004388000\\_004](https://doi.org/10.1163/9789004388000_004)
- S., E. N., A., K. A., & A., S. A. (2020). A Model of Threats to the Confidentiality of Information Processed in Cyberspace Based on the Information Flows Model. *Symmetry*, 12(11), 1840. <https://doi.org/10.3390/sym12111840>
- S., E. R., & Ravi, R. (2020). A performance analysis of Software Defined Network based prevention on phishing attack in cyberspace using a deep machine learning with CANTINA approach (DMLCA). *Computer Communications*, 153, 375–381. <https://doi.org/10.1016/j.comcom.2019.11.047>
- Schmitz, R. M., Coley, J. S., Thomas, C., & Ramirez, A. (2022). The cyber power of marginalized identities: Intersectional strategies of online LGBTQ+ Latinx activism. *Feminist Media Studies*, 22(2), 271–290. <https://doi.org/10.1080/14680777.2020.1786430>
- Tillay, R., & Chapman, C. (2019). A New Digital Method for Assessing the Diversity of Creator Identities in the Howard-Tilton Memorial Library Media Services DVD Collection. *Music Reference Services Quarterly*, 22(1–2), 57–64. <https://doi.org/10.1080/10588167.2019.1601421>

- Tormey, S. (2020). Challenges to political representation: Participatory democracy, direct democracy and populism. In M. Cotta & F. Russo (Eds.), *Research Handbook on Political Representation*. Edward Elgar Publishing. <https://doi.org/10.4337/9781788977098.00012>
- Udwan, G., Leurs, K., & Alencar, A. (2020). Digital Resilience Tactics of Syrian Refugees in the Netherlands: Social Media for Social Support, Health, and Identity. *Social Media + Society*, 6(2), 2056305120915587. <https://doi.org/10.1177/2056305120915587>
- Universitat Pablo Olavide, González Ramos, A. M., Revelles-Benavente, B., & Gisbert-Gràcia, V. (2020). Ciberactivisme contra les violències sexuals: #BringBackOurGirls. *Debats. Revista de Cultura, Poder i Societat*, 134(2), 29–41. <https://doi.org/10.28939/iam.debats.134-2.3>
- Wang, Y., Wu, J., Zhang, R., Shafiee, S., & Li, C. (2020). A “User-Knowledge-Product” Co-Creation Cyberspace Model for Product Innovation. *Complexity*, 2020, 1–20. <https://doi.org/10.1155/2020/7190169>
- Yuan, E., Wang, L., Cheng, S., Ao, N., & Guo, Q. (2020). A Key Management Scheme Based on Pairing-Free Identity Based Digital Signature Algorithm for Heterogeneous Wireless Sensor Networks. *Sensors*, 20(6), 1543. <https://doi.org/10.3390/s20061543>
- Zittel, T. (2020). Constituency Candidates and Political Representation. In R. Rohrschneider & J. Thomassen (Eds.), *The Oxford Handbook of Political Representation in Liberal Democracies* (pp. 154–171). Oxford University Press. <https://doi.org/10.1093/oxfordhb/9780198825081.013.7>

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