

The Influence of Social Media on Collective Action in the Context of Digital Activism: An Affordance Approach

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Abstract

This study examines how social media influence collective action in the context of digital activism. This is achieved by using the concept of media affordance as a theoretical lens and applying it to the collective purposes of network building and synthesis, as suggested by mobilization theory. Employing latent class logit regression, we tested the proposed hypotheses based on data from 384 digital activism events in 100 countries, classifying success in digital activism as either partial or complete success. The results show that when the purpose of digital activism is network building, media with greater affordances for promoting environmental shaping were positively related to the success of digital activism. Conversely, when the purpose of digital activism is synthesis, media with greater affordances for promoting contagion were positively related to the success of digital activism.

1. Introduction

Events in recent years have shown that new media technologies have not only increased the civic engagement of citizens around the world, but have also facilitated greater activism. For example, Moveon.org mobilized more than three million members in a campaign against the Iraq War using online media [55]; social media played a major role in events ranging from social injustice based movements in Madrid (Indignados), New York (Occupy Wall Street), and Athens (protests against austerity measures) to overthrowing an autocratic regime in Egypt [6, 9].

Evidence shows that more people are increasingly engaging in political or civic engagement using diverse social networking sites, and social media is acting as an important catalyst for social movements [32]. The use of modern communication technologies to initiate and manage social and civic movements is referred to as digital activism [27].

Due to the perceived importance of social media as a pivotal tool for civic, environmental, social, and economic activism, scholarly attention has focused on the increasingly significant role played by social media in collective action [10, 40]. Although the political, cultural, and societal contexts of different countries are known to affect digital activism's outcomes, recent empirical evidence has shown that the use of social media has a certain influence on collective action [42]. Accordingly, one of the key decisions in digital activism efforts requires understanding how best to harness social media in order to seek, build, and sustain digital resources to meet digital activism's specific goals [6]. However, little is known about how the functions and dynamics of social media differ according to the purposes of digital activism [49, 51].

To fill this gap in understanding, we examine the roles of social media in promoting collective action in the context of digital activism. Towards that end, following the current scholarship focusing on the concept of media affordances, we explore the influence of different social media on collective action from the affordance lens in the context of digital activism.

The study makes two key contributions. First, it contributes to developing the theory of media affordances by proposing new media affordances associated with the dynamics of a collective—in this case, a mass of anonymous people. Researchers have mostly examined media affordances at the micro level using explorative approaches in the context of organized groups, which are often described as “social aggregates that involve mutual awareness and potential mutual interaction” [38]. The findings of this study, as applied to the social media setting, can help researchers understand the new media affordances and their effects on collective action. Second, this study contributes to the information systems (IS) literature on media choice by linking the notion of social homogeneity to the affordances of social media. Understanding how social media induce social homogeneity from a collective can aid in the design of a social media strategy to enhance the performance of a collective in accomplishing its goals. Thus far, the IS literature has focused on the

homogenous behavior of individuals (e.g., herd behavior in technology adoption or shopping behavior), concentrating mainly on psychological, social, and normative factors [51, 52]. By developing a more nuanced understanding of how technology induces homogeneity among a collective to achieve a specific aim, this study paves the way to broadening our understanding of the role of social media in promoting collective action towards a particular purpose in the digital environment.

2. Theoretical Development

Digital activism is based on homogeneous activities performed by a large number of people in pursuit of the shared collective purpose. It can be conceptualized as collective behavior that aims at network building and the synthesis of ideas [47, 48].

From the point of view of a collective, as opposed to a single individual, researchers have argued that individuals are motivated and behave similarly toward common attitudes and practices in activism [3, 4, 43]. Kane et al. [29] have proposed two mechanisms that underlie social homogeneity in social media platforms: environmental shaping and contagion. *Environmental shaping* refers to how the structural features of a social media platform encourage users to connect with others and come together quickly, thereby creating and expanding a digital environment. *Contagion* refers to how the content features of a social media platform enable users to share, process, and spread similar information so that participants can disseminate attitudes, norms, and practices through interaction [29].

We employ the mechanisms of environmental shaping and contagion to explain how social media platforms provide different affordances that allow collectives to achieve different purposes in digital activism. We assume that digital activism requires the homogeneous behavior of individuals to achieve a collective purpose, with the participants in the collective encouraged to influence and inform each other and to share the same content in a digital environment to enable them to quickly build a large network. We suggest that environmental shaping and contagion underpin the two main goals of digital activism: network building and synthesis.

Mobilization theory postulates that the two primary purposes of digital activism are: (a) identifying people with relevant, potential interests in digital activism's purpose and allowing those participants to maintain communication (network building); and/or (b)

coordinating, integrating, or synchronizing participants' contributions (synthesis) [47, 48].

Network building in digital activism requires participation and mobilization [28]. Ultimately, it involves connecting different actors, issues, and events to initiate collective action [19]. To develop and mobilize a network of connected individuals who instrumentally identify with a particular activism, information must be rapidly transmitted across different actors, organizations, and time and space [2, 28, 34, 49].

Synthesis in digital activism aims to combine information from multiple sources and to understand and modify the mental models of a situation [31]. Thus, it requires participants to carefully craft the message to ensure that the intended meaning is expressed clearly, that aggregate multiple sources of information are included to ensure that the alternative visions of activism are debated, and that collective action is organized around shared views [2, 30].

2.1. Affordance Approach

The concept of affordance, as defined by Gibson [21], has been adopted in the IS literature to explain how the mutuality of users' intentions and technology capabilities provide the potential for a particular action [33, 37]. The affordance lens provides researchers with the theoretical grounds to explain the symbiotic relationships between people and technology [37] that can shed light on the dynamics of digitally mediated social change.

Researchers argue that the affordances of social media may cause dialectic tension that can both enable and constrain a particular action [33]. In essence, the same media affordance may lead to different results depending on the conditions in which the social media are used. The results can be used to explain how social media platforms function positively or negatively to achieve the particular goals of digital activism.

2.2. Social Media Affordances for Collective Action

Network building and synthesis require different collective activities. Activities essential for network building involve creating and expanding a digital network in which participants can identify relevant and potential interests and maintain communication with others so that they can feel a sense of participation [20]. Activities vital for synthesis are aggregating diverse pieces of information from multiple sources to

create a coherent message by facilitating in-depth sharing of more reliable information with trusted counterparts [6]. By mapping the main mechanisms for social homogeneity [20] and the purposes of digital activism [15, 16], we contend that the social media affordances—connecting ties and visualizing network information—enhance a collective’s ability to build a large network because these affordances promote environmental shaping in a social media platform. We also contend that two other social media affordances—deep profiling and controlling privacy—enhance the ability of a collective to share information and reach a consensus for decision-making because these affordances promote contagion.

2.3. Network Building

In digital activism, the foundation of network building is connecting individuals through the sharing of common interpretations of events via a digital platform [4, 50], which is akin to social capital building [44]. While Putnam et al. [45] have shown that social capital enhances political participation offline, the features of political participation online remain unexplored. *Environmental shaping* is key to creating a loosely coupled network connecting diverse users widely dispersed across a variety of feeds and networks [35, 49]. Research suggests that (a) designing ties and (b) visualizing network information are affordances associated with environmental shaping [29].

The affordance of connecting ties consists of two social media features: the connection mode and the type of tie. The mode of the connection refers to the methods used to establish and connect ties. Some social media platforms (e.g., Facebook) allow a tie to exist only when both parties in the relationship confirm the tie (symmetric tie connection). In contrast, some media (e.g., Twitter) allow an asymmetric tie connection in which a tie can exist without both parties confirming the relationship. In digital activism, the mode of an asymmetric tie connection is more effective for network building because people are more likely to be connected with other actors in a timely manner when the media platform does not require both parties in a relationship to approve the tie. Some researchers have argued that media users feel more comfortable connecting with potential supporters that do not directly belong to their personal networks when they share a common civic or social goal than they do connecting with those with whom they are acquainted [35, 49]. The features of an asymmetric tie connection

afford a cross-cutting transmission belt connecting diverse users located in different temporal, spatial, and ideological areas of the activism sphere.

The type of tie refers to the content flow in a tie. The tie types of interest here are emotional and instrumental in nature [53]. Emotional ties are characterized by the exchange of socio-emotional information, and they represent relational states between individuals, such as friends on Facebook. In contrast, instrumental ties are characterized by the information flow between two nodes. Instrumental ties support environmental shaping better than emotional ties because the flow of information facilitates a rapid expansion of weak-tie networks in which people do not share their communications with a defined audience but are unrestricted by spatial or relational boundaries [6]. Thus, they can immediately develop a flow of information, described as a ‘cascade.’ The functions of social media that support information flow (e.g., RSS, Twitter trends, retweets, and bookmarking systems) and facilitate public engagement foster increased information flows between network participants [22].

The second affordance of social media associated with environmental shaping is visualizing network information, which makes it possible for users to see and traverse network connections, thus enabling them to identify how they are connected with others and understand their own network information (e.g., the number of ties, position in a network, or strength of the ties). The affordance of visualizing network information also gives people easy access to the network information of others so they can understand how people are connected to content and how content is connected to other content [29]. Therefore, the affordance of visualizing network information can assist those who wish to leverage network information strategically to expand or build a network to increase resource accessibility [7]. However, this is not the case with digital activism. The availability of network information allows users to view the activities, social identities, political views, interests, and preferences of others in the network [4]. As reported previously, people tend to be reluctant to allow third parties to access their network information [11]. Thus some individuals may choose not to participate in the activism network and its related activities. Indeed, in a case study of the Occupy Wall Street movement, Penney and Dadas [42] revealed that many people felt their involvement in network building to support the activism would make them vulnerable to unwanted surveillance from authorities. Accordingly, the affordance of visualizing network information may not

promote environmental shaping in the context of digital activism.

In sum, the degrees of affordances of connecting ties and visualizing network information vary across different social media platforms. The embedded technical features and the affordances can both enable and constrain the collective action to build a large network for digital activism. An increased affordance promoting environmental shaping (e.g., connecting ties) can expand the boundaries of a network beyond the participants' existing relational ties. In contrast, a decreased affordance for environmental shaping (visualizing network information) may constrain participation in an activist network because of fears related to sharing private network information and possible outside censorship [17]. Based on the discussion above, we propose the following hypotheses.

Hypothesis 1: When the aim of digital activism is to build networks, media with greater affordances for environmental shaping will increase the degree of success.

2.4. Synthesis

By allowing people to form online public spaces for extensive information sharing and deliberation, synthesis aims to aggregate diverse perspectives while coordinating and creating shared values to support social change [2]. The synthesis purpose of digital activism aligns with Dervin's individual sensemaking [14] where individuals aim to close cognitive gaps by focusing on a variety of information. *Contagion* is a key mechanism for synthesis; it leads people to interact with similar information and to enter into a dialogue, discussing issues of common interest and reaching a consensus for political decision-making [31]. We assume that the content features of social media shape how a collective establishes a shared mental model by influencing the transmission, exchange, and processing of content resources in a media platform [13, 46]. Thus, we suggest that contagion is associated with two social media affordances: (a) deep profiling and (b) controlling privacy.

Deep profiling is an affordance of social media that enables users to trace others' identities, contributions, and past activities [36]. The affordance of deep profiling supports contagion because it allows people to access information about their counterparts, including their political views, interests, and prior activities, thus leading to increased familiarity while helping to build a shared mental model among network

participants [8, 31]. In addition, deep profiling means people can identify what content was read (e.g., number of times "viewed") or how many people liked the content (e.g., "liked" on Facebook). Accordingly, the affordance of deep profiling increases the likelihood of users behaving similarly or following others based on what they have learned from the information others have shared [41]. It also determines how content flows across the network. For example, people have a tendency to read content simply because others have already viewed that content.

Controlling privacy is an affordance of social media that enables users to allow or restrict access to network resources [23]. Social media platforms offer people different degrees of privacy control [29]. For example, Facebook users are required to create a personal account before they can make relational ties with "friends" and access the content of their network of friends. In addition, users protect their privacy by inviting their friends to join their networks or by signing up for events and groups in which all the participants feel that they are able to control the outflow of private and valued information to other parties. If users do not want existing "friends" to access their content, they can control this access by breaking existing ties. Greater capabilities to protect access and privacy encourage people to contribute more personal content and in-depth information because they know their contributions will be shared only with those they trust [29, 52]. Therefore, the affordance of controlling privacy allows people without common experiences or shared mental models to better consider the context and interpret/integrate information from diverse sources, thereby achieving greater synthesis. Conversely, media with lower affordances for contagion could be less useful for this synthesis purpose. Based on the discussion, we can infer the following hypotheses:

Hypothesis 2: When the aim of digital activism is synthesis, media with greater affordances for contagion will increase the degree of success,

3. Methods

3.1. Data Description

The data for this study are from The Global Digital Activism Data Set version 2.0 (GDADS 2) [26]. The data represents 426 digital activism cases spanning 100 countries and dependent territories (e.g., HongKong or Macau). Compared to GDADS 1.0, GDADS 2.0 provides several advantages. The inter-rater reliability

among the coders in classifying the outcomes was 0.691. Second, focusing on digital activism during 2010, 2011, and 2012 is important to avoid significant heterogeneity in evolution and diffusion of digital technologies. Access to digital technologies has increased significantly in recent years across most countries [5]. Thus, the narrow period of 2010, 2011, and 2012 attenuates significant unobserved heterogeneity related to country specific accessibility and diffusion rates of access to digital tools.

Among the 427 cases in GDADS 2.0, the level of success could not be determined for 42 cases. We dropped these cases to estimate the latent class logit model. The final sample consisted of 384 events from 100 countries from 2010 to 2012. The Appendix provides additional details on the country-distribution distribution of cases, the outcomes (partial success or total success) and the type of media tools used. As complete failure cannot be ascertained, partial success is coded as ‘1’ and total success as ‘2.’

As country and period effects could still affect the efficacy of digital activism outcomes, we control for country dummies and include the year of digital activism.

The operationalization of variables is listed in Table 1. In line with the underpinnings of the latent class regression approach we include all the digital activism tools – website, forum, e-petitions, social networks, microblogs, digital video, digital maps, SMS, and whether digital activities were also conducted in the field. We control for whether violence or hacking was involved. We also control for the target type (government agency, business, or civil society group).

Table 1. Variable Description

Variable	Description
Outcome	1 = partial success; 2 = complete success
Site	Presence of website in the digital activism efforts
Forum	Forums used in digital activism efforts
E-Petition	E-Petitions were used in the digital activism efforts
Social Networking	Social Networks were used in the digital activism efforts (e.g. Facebook)
Microblogging	Microblogs were used in the digital activism efforts (e.g. Twitter)
Blog	Blogs were used in the digital activism efforts
Video	Videos were used in the digital activism efforts
Mapping	Digital Maps were used in the digital activism efforts

SMS	SMS were used in the digital activism efforts
Included offline participation	Offline tactics were used in the digital activism efforts
Target Type	Whether the target is a government agency, business, or civil society group
Target Country	Country where activism was started
Year	Year activism started
Violence	Whether physical violence was initiated by participants
Hacking	Whether hacking was initiated by participants

3.2. Analytical Approach

As our earlier theoretical arguments are based on a configurations approach, and in light of increased calls for assessing complex configurations that may result from nine media types and use of offsite activities [12, 15, 16, 18], we use latent class logit regression.

First, using latent class approaches allow us to not begin with any *a priori* expectations regarding the number of segments of media and outcomes. Instead it allows for determination of a pertinent typology based on the structure in the data and the statistical fit of our models. Overall, using latent class logit regression we aim to assess configurations of media and the degree of success of digital outcomes (using a logit link function).

Although a complete exposition of latent class approaches are beyond the scope of this study, latent class models are based on mixture models. To identify most efficacious media-purpose profiles we used mixture models to estimate the likelihood of whether a specific digital activism into a class of media and degree of success configuration [54]. Mixture models facilitate the decomposition of a sample (indexed by k) for which a set of n observations of digital activism $y_n = (y_{nk})$ are available, in which there is a mixture of S media-purpose segments in proportions π_1, \dots, π_S . *A priori*, no information is available regarding from which segment (subgroup) in which a digital activism falls into. Although the likelihood of a digital activism falling into segments is constrained to 1,

$$\sum_{s=1}^S \pi_s = 1.$$

Given that the observations y_{nk} come from segment s , the conditional distribution function of y_n can be represented as $f_s(y_n | \theta_s)$, where θ_s is the

vector of unknown parameters associated with the specific density function chosen, e.g., normal, Poisson, multinomial, Dirichlet, exponential gamma or inverse Gaussian. Mixture models are estimated using maximum likelihood, where the vector $\phi = (\pi, \theta)$ is estimated based on the likelihood of ϕ being

$$L(\phi: y) = \prod_{n=1}^N f(y_n | \phi) \quad \text{where}$$

$$f(y_n | \phi) = \sum_{s=1}^S \pi_s f(y_n | \phi_s)$$

represents the unconditional probability of y_n , given ϕ . Once an estimate of ϕ is obtained, using Bayes' theorem to calculate the posterior probability that any firm n with y_n comes from any segment s ,

$$P_{ns} = \frac{\pi_s f(y_n | \theta_s)}{\sum_{s=1}^S \pi_s f(y_n | \theta_s)}$$

3.3. Model Selection

As first step, we identify the number of classes that provide best fit for the underlying data. The number of different types of firm subgroups cannot be known *a priori*. Numerous model selection heuristics have been proposed to determine *segments* for models. We use Log-likelihood (LL) to compare model fit across multiple segments, and use Bayesian Information Criteria (BIC) and Akaike Information Criteria (AIC) and Consistent CAIC. Segment solution with lowest values of LL, AIC, BIC, and CAIC fits the data best [1, 6].

As presented in Table 2, for the aggregate solution (i.e. or that there are no unique configurations of media and purpose that predict successful outcome of digital activism) ignores heterogeneity, and the possibility that different media-purpose outcomes could be more effective in realizing digital outcomes. Having found little support for the aggregate solution, we assessed the degree that different media-purpose profiles led firm subgroups to different performance outcomes.

Table 2. Model Selection

Class	Par	LL	MC (p)	BIC	AIC	Entropy R ²
1	26	-115.4		368.4	282.9	
2	127	-160.0	1 vs. 2 P<0.00	1076.2	574.1	0.8829
3	243	-119.5	2 vs. 3 p>0.1	1685.6	725.0	0.8584
4	359	-92.7	2 vs. 4 p>0.1	2232.7	903.5	0.8407

Par: parameter, MC: Model Comparison

The two segment solution has the lowest values, and the highest Entropy R-square values, thus indicating the best fit with the data. The 3-, 4-, and 5-segment solutions have increasing fit values, thus, indicating poorer fit for more than two segment solutions. We proceed with the two-segment solution.

4. Results and Analysis

The results from latent class logit regression are presented in Table 3. The two-segment solution led to classification of 196 digital activism in Class 1 and 189 digital activism efforts in Class 2. The interpretation of estimates is similar to a typical logit regression, only that estimates differ between identified groups. In Class 1, when the main purpose of digital activism is network building web sites ($\beta = 6.9958, p < 0.05$) and blogs ($\beta = 15.8535, p < 0.05$) improve the degree of success, whereas social networks ($\beta = -5.9031, p < 0.05$), video ($\beta = -5.8171, p < 0.05$), and offline participation ($\beta = -9.5293, p < 0.05$) lowered the degree of success. In Class 2, where the purpose of digital activism is synthesis social networks ($\beta = 12.3250, p < 0.05$), video ($\beta = 7.7761, p < 0.05$), digital maps ($\beta = 11.1016, p < 0.05$), and offline participation ($\beta = 15.7829, p < 0.05$) increased degree of success, whereas blogs ($\beta = -23.9344, p < 0.05$) lowered the degree of success.

Table 3. Latent Class Logit Regression Model

Model for Dependent				
	Class 1		Class 2	
R ²	0.856		0.9482	
Updated_Output2	Class1	z-value	Class2	z-value
Intercept				
1	-2.655	-2.0464	6.361	2.1366
2	2.655	2.0464	-6.361	-2.1366
Predictors	Class1	z-value	Class2	z-value
Web Site	6.9958	2.4123	0.1592	0.0772
Forum	-1.489	-0.3266	4.5843	0.2687
E-Petition	-0.0557	-0.0356	-0.2134	-0.1163
Social Networking	-5.9031	-1.7901	12.325	2.4276
Microblogging	3.2442	1.256	-2.297	-1.3997
Blog	15.8535	2.2946	-23.9344	-2.5997
Video	-5.8172	-2.0869	7.7761	2.248
Digital Map	-5.9404	-1.5942	11.1016	1.8261
SMS	0.0922	0.0166	18.1657	0.8807
Offline Participation	-9.5293	-1.8447	15.7829	2.3245

5. Discussion

The purpose of this study was to understand how social media platforms enable or constrain collective action in a digital environment. Drawing on the concept of media affordances against a backdrop of social homogeneity in the context of digital activism, we examined how the affordances of social media exerted a predictable influence on collective behavior in promoting environmental shaping and contagion. From this, we inferred the contingency of social media and the success of digital activism.

Based on our findings, we suggest that identifying the alignment of media affordances and the mechanisms for enabling or constraining collective action is essential to predicting the success of digital activism. We believe that these results will help guide digital activists' efforts to utilize media strategically to improve their chances of success. Using media with lower affordances to promote social homogeneity and realize a collective purpose could lead to ineffective digital campaigns. Furthermore, they could create coordination and communication problems, reduce the credibility of the cause, and, ultimately, lower the degree of digital activism success. Below, we discuss our results in detail and present the specific findings relating the purposes of digital activism and the capabilities of social media with to the mechanisms of social homogeneity.

5.1. Media Affordances for Environmental Shaping

The results show that the use of websites and blogs increased the degree of success when the purpose was network building. Websites and blogs commonly offer a greater affordance of connecting ties and a lower affordance of visualizing network information. Users connect ties with the asymmetric connection mode (users do not need to obtain the confirmation from their counterparts to establish relations) and instrumental tie type (users are connected with information flows). Furthermore, users do not have easy access to others' network information in websites and blogs. As shown in an earlier empirical study, these media affordances enable a network to grow at a rapid pace, making it possible to enroll a large number of people (e.g., more than tens of thousands of members) [25].

One notable finding of the present study was that microblogs (e.g., Twitter) had no significant influence on the success of digital activism when the aim was network building. This result contradicts that of a previous digital activism study which reported that

social media users commonly used Twitter to access and spread information quickly [49]. We attribute the result to the high affordance of visualizing network information. Twitter may support environmental shaping due to its high number of asymmetric and instrumental ties that facilitate the addition of new ties and the expansion of the network. However, the high visibility of the network information may inhibit social homogenization toward network building. Ultimately, visualizing network information that allows for third parties to easily identify the network information can limit the willingness of people to join the network, thereby adversely affecting the construction of sustainable digital activism. Based on these results, we conjecture that Twitter may be effective for spreading messages to multiple recipients and for accessing a large quantity of information from diverse sources [42]. However, it is not effective for either building a sustainable network where people with common interests communicate or mobilizing others to practice collective action.

The results also showed that media with low affordance of connecting ties and high visualizing network information (e.g., social networks) decreased the degree of success when the aim of digital activism was network building. We assert that particular features may make individuals hesitant to participate in network-building activities. Examples of these include media ties based on emotional ties (such as friendship and strong ties), in which intensive time and effort must be invested to establish and maintain the relationships [20, 39].

5.2. Synthesis and Media Affordances for Contagion

The results demonstrated that the use of social networks (e.g., Facebook), video sharing, and digital maps increased the degree of success when the purpose of digital activism was synthesis. The results indicate that media with greater affordances for contagion (deep profiling and controlling privacy) lead to improved synthesis. As previously discussed, some affordances (e.g., deep profiling and controlling privacy) help induce homogeneity among collectives and lead to the development of contagion. By increasing the familiarity of the communication context, deep profiling and controlling privacy create the dynamic potential for collectives to shape opinions, aggregate diverse perspectives, and coordinate, create, and share information. For example, users of social networks (e.g., Facebook) can interact within their network of

friends by making other users their “friends.” Individuals can better identify people that share similar interests in a particular cause by obtaining social cues from their profile information, which would be impossible in an anonymous digital environment. These affordances assist people in building a shared mental model. In addition, in an environment that facilitates deep profiling and controlling privacy, individuals may better understand the context in which they exchange sensitive information, and they may feel more comfortable developing a mutual understanding on the basis of personal information, thus helping collectives to achieve the synthesis purpose of digital activism [10, 24].

Our work also revealed that any mismatch between the purposes of digital activism and media affordances negatively influenced the success of digital activism. Specifically, the results showed that the use of blogs negatively influenced the success of digital activism when the aim of digital activism was synthesis. As discussed above, ties in blogs are usually forged by anonymous users, and the digital content of blogs is not strictly controlled. These affordances (low deep profiling and low controlling privacy) may inhibit social homogeneity involving a collective’s political deliberation, thus preventing it from reaching an agreement or a consensus when it comes to important decision-making.

Employing the lens of media affordances, we found that social media provide different affordances that appeared to enable or constrain collective action. Our work demonstrates the need to examine the roles of media affordances in promoting particular collective action from a homogeneity perspective to predict the collective performance. The study extends prior research on media choice by shifting the focus from the specific technological features to media affordances. The affordance approach moves scholarly attention away from specific media platforms to the configuration of these platforms, as examined here through latent class logit regression.

5.3. Implications

This study examined the appropriateness of different digital media for specific digital activism purposes. In doing so, it contributes to extending our understanding of the effects of technologies on collective action from a novel perspective. First, we extended affordance theory to collective action by utilizing the specific context of digital activism. Scholars have suggested that social media affordances

are significantly different from those in conventional digital media, such as email, instant messaging, video conferencing, and group decision support systems [33, 37]. This suggests that research that empirically examines how these unique affordances of social media impact the behavior of individuals as they seek to accomplish particular types of collective action is timely. Therefore, this work provides a first step in that direction. Exploring new affordances of social media and examining how they influence individuals’ behaviors in achieving particular collective purposes offers the advantage of determining the best form of media usage for digital activism.

Second, this study contributes to understanding the dynamics of collectives in a digital environment. Despite increasing scholarly attention on how social media serve as platforms to bring together and homogenize large numbers of geographically dispersed individuals to focus on particular activities, little is known about the impact of technology on the homogenization of individuals via a media platform. This work provides a vehicle for researchers to explore the technical designs that must be considered in order to ensure a better understanding of the dynamics of collectives. In so doing, this research extends beyond the theoretical lens of media affordances that are limited to the individual behaviors of small-group dynamics in a digital environment. Digital activism is an important phenomenon today; thus, we call on researchers to examine it in terms of its effectiveness, individual antecedents, organizational antecedents, and the various contexts in which it is either more or less effective.

At the methodological level, the use of latent class regression provides a novel approach to the study of digital activism. Digital activism research has traditionally relied on rich data collected from multiple sources. Instead of relying on traditional empirical approaches, the current study does not hypothesize *ex-ante* media configurations; rather, it relies on latent class analysis to identify the efficacious configurations necessary to increase the degree of success in digital activism. The complex multilevel, multicontextual, and multifaceted dynamics of digital activism activities limit the use of *a priori* specifications required for regressions or structural equation models. We relied on a more flexible estimation approach, which is a hybrid between traditional empirical models based on regression, and the need for flexibility in model specification when nomological validity in the emerging area of digital activism is limited. The latent class approach allowed us to identify the configurations of the purposes of digital activism

(network building and synthesis) and the media tools (ranging from blogs to E-petitions) that increased or decreased the degree of success.

5.4. Limitations

The findings of this study must be interpreted in light of its limitations. First, the outcomes of digital activism depend on complex social, economic, political, and cultural factors. Media tools play an important role in the sharing and transmission of information. However, the current results should not be construed to indicate that media tools ‘make or break’ digital activism efforts. Instead, the ‘fit’ between media tools and the purposes of digital activism are correlated with the activism success.

Second, this model’s limitation derives from the difficulty of completely separating the two types of activism: network building and synthesis. It can be difficult to isolate the purposes of activism because it often consists of a mixture of the two types of purposes. Here, we assume the predominance of one goal over the other. It must be acknowledged that the nature of the proposed model is not deterministic. The influence of one purpose does not imply the absence of the other.

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