



Developing a Conceptual Model on Public Engagement Through the Government Social Media in Malaysia

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Abstract. With social media, the government can interact with the public directly without the aid of media gatekeepers like journalists and producers. Therefore, most governments take initiatives in the e-government on social media to enhance public engagement to cultivate the public's confidence and trust in the government. This paper aims to develop a new model for explaining public engagement and government social media, which could expand the body of knowledge on public engagement on government social media in the communication field from a Malaysian's standpoint. The proposed model comprises e-government adoption, perceived content, and social media usage, with the mediating effect of gratification that could influence public engagement on the government's social media.

Keywords: Public Engagement, E-Government, Perceived Content, Social Media Usage, Gratification, Malaysia

1 Introduction

The evolution of social media shifts the communication landscape to two-way symmetric communication [1,2], and mobile social media has grown in popularity [1,3]. The government can interact with the public directly without needing media gatekeepers like journalists and producers [2]. Malaysia launched Multimedia Super Corridor (MSC) in 1996, a unique mechanism for the country to join the 'information society' and assist in transitioning to the 'knowledge economy'; e-government is one of the flagship applications developed by MSC. [4]. Nowadays, e-government is a universal trend globally [5] while most countries, including Malaysia's e-government, are concentrated on social media [6, 7, 8]. Besides, public engagement is the primary goal of most e-government social media projects. It has created a variety of viewpoints to make the public's and governments' lives easier [9] and gradually cultivate the public's confidence and trust in their government [10]. Hence, the Malaysian government, through The Malaysian Administrative Modernisation and Management Planning Unit (MAMPU), as the lead government agency for public sector digitalisation, provides

support for all public sector entities [11] and has put in many efforts to guide and improve the e-government to strengthen public engagement on social media. MAMPU has circulated several documents or guidelines to government ministries and agencies regarding the excellent use of official social media, including the Use of Social Media Networks in the Public Sector, the Best Practices of Using Social Network Media in the Public Sector, and the Social Media Ethics in the Public Sector [12, 13].

2 Literature Review

Public engagement refers to the public's involvement in public affairs to develop trusting connections beyond basic information sharing [14]. Using social media for government purposes can increase public engagement [15], whereas continuance usage after adopting technology is a subset of behavioural engagement [16]. Engagement was also measured in two components: (i) individual involvement and (ii) personal meaning. Individual involvement denotes users' perception that their role is essential to meet their needs [17]. Personal meaning is defined as the degree to which users perceive that they are fulfilling personal needs, values, and interests [17]. The public with a stronger motivation to increase their meaning expressed a stronger intention of public engagement [18]. Previous studies showed that public engagement is critical; if the public does not engage with the process and implementation of the government policies, this can result in government efforts failing; thus, enhancing public engagement through e-government, i.e., social media is an important task to achieve [19]. Thus, presently, to what extent is public engagement in Malaysia? There is a need to identify current public engagement on government social media in the Malaysian context.

The United Nations Report in 2022 showed that of 193 countries surveyed in the E-government Survey, Malaysia had 53rd listed in the E-government Development Index (EGDI) [11]. If a country desires to remain competitive in the increasingly interconnected world of the twenty-first century, it must fully apply e-government [20]. E-government is the advent of electronic-based governance through communication, which encourages a two-way exchange of information between the people and the government [21], including all governments' online communications and information exchange activities [22]. It enabled the public to save time and money by handling tasks through its services and reduced face-to-face public service to increase the productivity and transparency of the work process [23], enhance governments' service level and reach participatory [24]. In addition, E-government is a phenomenon that facilitates the relationship between the public and government to increase collaboration and interaction and additionally to allow the public to interact with the government at any time and from anywhere using the internet and social media applications. [8]. The public's interaction with governmental social media can be considered an e-government adoption process [25]. A previous study found that Malaysian would adopt e-government if it suits their work practices, environment, and objectives [26]. Hence, to what extent e-government adoption, mainly government social media in Malaysia, still needs to be explored in the literature [27].

Previous literature discussed some dimensions of social media content, i.e., transparency, participation, collaboration, conform, and posted topic [24, 28, 29]. The public's presence on social media is a sign of a robust and transparent communications strategy [2, 30]. The higher the transparency in the social media content, the higher the public engagement with the government's social media [28, 31]. In the same context, transparency is the most substantial factor that influences the decision of the public to adopt e-government [32]. In another way, participation is a crucial dimension of governance and one of the pillars of sustainable development. The 2030 Agenda for Sustainable Development highlights the importance of participatory processes [11, 33]. The primary distinction between participation and collaboration is that the latter refers to teaming to achieve a common goal. On the other hand, participation is about communication and feedback. So, collaboration gives a higher level of participation [24]. Another dimension is comfort which is the use of social media by governments in communicating with its stakeholders to publish information, provide services, or get feedback from them, attaining the comfort level required from e-services [28]. Lastly, the posted topics may affect the communication or engagement between the government and its stakeholders [28]. However, most government agencies use social media tools to replicate existing content from their websites or online [34]. The public frequently tries to match these social media cues with their perception. When the public accepts or rejects government content, they send a clear message to governmental social media accounts about what types of content are permissible [25]. Hence, it needs to identify to what extent the perceived content in government social media in Malaysia, particularly from the above dimensions.

Social media usage can improve the interactivity between a government and the public [35]. Thus, social media continues to be used by the government within the public [11, 36, 37, 38]. It allows the government to disseminate information and enables the public to give feedback to the government [39, 40, 41]. But some studies showed that social media usage does not assure engagement with the public. In many cases, governments need to use social media as they still use it as a tool for one-way communication [42]. As a result, the public is the only information recipient [43]; thus, there is a need to study to what extent of the government's social media usage among the public in Malaysia.

Gratifications are the "perceived fulfilment" of needs through media [44]. In the early 80-an, Cutler & Danowski suggested two types of gratifications: content gratifications and process gratifications [45, 46]. Additionally, gratifications have been described as expectations and desires that come from and are limited by social context, interaction, and personal traits [47]. Recently, gratifications have been obtained by experiencing media after adoption [48]. The mediating effect of gratification was critical for improving users' engagement in social media [49]. But fewer studies were found regarding gratification as a mediator for public engagement on social media [49,50,51]. Hence, it needs to study to what extent gratification is as a mediator towards public engagement.

3 The Development of Conceptual Model on Public Engagement

E-government adoption influences public engagement [30, 41, 52, 53]. The primary motive for e-government adoption is that it improves the public's access to the delivery of government services [54]. Besides, gratification influences their positive perceptions of e-government services adoption [55, 56]. Nevertheless, the public must have the skills to use social media tools after adoption and continue to use and engage with them. [54]. It only holds meaning if these have end-user adoption, especially for e-govern- ment services [57]. Once the e-government adoption starts with the interactions in gov- ernmental social media, the public seeks to reduce information uncertainty. It trans- forms it into a purposeful pursuit to foster likelihood by aligning media characteristics with their interaction needs [25]. Conversely, engagement significantly impacts how the public perceives media content [58, 59]. The content governments post on social media can attract the public's attention and engage them if they perceive the topics' interest and significance [60, 61]. Nevertheless, the government's public administration can affect the amount of public participation by posting different content on public en- gagement [41]. Furthermore, if the public is more engaged with social media, the public may view the content as likeable and credible [1]. On the other hand, substantial evi- dence shows that perceived content quality significantly influences user gratification [62]. The content must be designed to create gratification for users to build a more substantial level of engagement and facilitate value outcomes [63]. Thus, social media content influences public engagement [13, 28, 29]. To increase public engagement in social media, the government needs to understand general behaviour on social media by exploring public preferences for the content produced [13, 34, 36].

The government should use efficient social media tools to increase public participation [64]. Public engagement on social media has been recognised as a critical metric for determining the success of corporate public relationships on social media [65]. Thus, social media is used as an interaction mechanism for fostering public engagement [6, 36]; while the continuing usage of social media indicates engagement [66]. Besides, the total likes of social media have been found to relate to engagement since highly engag- ing content may contribute to page growth in terms of followers and likes [7]; the grat- ification of the public is influenced by media technology [67]. The public use social media for different needs to gratify, and social media provides the versatility of infor- mation in the form of pictures, videos, posts, tweets, live streams, stories, messages, etc., to gratify these needs [68]. In addition, using social media for information dissem- ination significantly influences public satisfaction, ultimately affecting public engage- ment [69]. Moreover, the public who feels gratified by the media is more likely to increase their engagement with the media [69, 70]. Cultural factors might strengthen people's needs and guide people's gratifications [71]. The mediating effect of gratifi- cation was vital for refining engagement in social media [49].

This paper is based on the theory of Uses and Gratification Theory (UGT); it posits that users' gratification of public engagement will be fulfilled once the content of the social

media, the desire for e-government adoption, and the uses of social media is met which is leading to the engagement of that media [47, 72]. This theory justifies the possible links between an individual's perception and behavioural engagement intention [72]. In addition, the Unified Theory of Acceptance and Use of Technology (UTAUT) comprehensively explains e-government adoption in social media, particularly in performance expectancy, effort expectancy, social influence, and facilitating conditions [73, 74]. Social Media Engagement Theory is a new viewpoint on how the user experience drives engagement [17]. This theory is used in forming the model indicating that the more frequently users take part in social media, the more exploration and experience of contents users can get [75]; and the more understanding of the e-government [76]. In addition, gratification refers to user satisfaction regarding their experience, which implies that users' gratifications are reinforced through their positive experience with media [46].

Hence, a model that connects to the dimensions utilised in previous research has been proposed below.

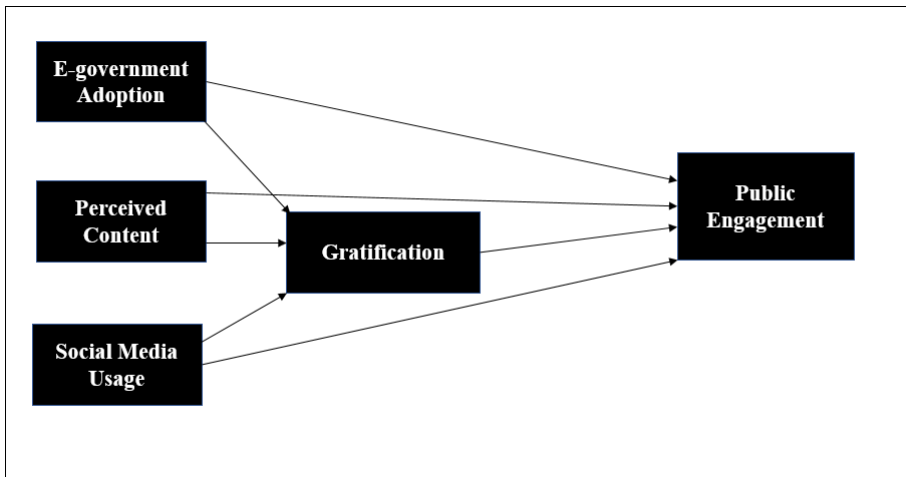


Fig. 1. Proposed Conceptual Model on Public Engagement Through the Government Social Media in Malaysia

4 Conclusion

The proposed model highlights past studies on public engagement and the relationship between e-government adoption, perceived content, uses of social media, and gratification in government social media. This proposed model aids the government in expanding the body of knowledge on e-government by determining the perception among the public that is most likely to increase public engagement and foster dialogic com-

munication with the public. A successful social media communication strategy can ensure that the correct information or content is conveyed to the public at the appropriate time without relying on public trust, thereby increasing public engagement. On the other hand, this model aims to measure public engagement based on the public's perception and can help the government to evaluate the effectiveness of the present government's social media. Additionally, it is crucial to forming a sustainable and prosperous Malaysian government's strategic communication through social media, eventually establishing a creative and fundamental digital approach to national policies. Ultimately, it helps to discover issues that can improve public engagement with government social media. As a result, this paper is critical in upgrading and developing new capabilities of the government's officers to move toward successful e-government on social media.

References

1. Wai Lai, Ivan Ka, and Yide Liu. "The effects of content likeability, content credibility, and social media engagement on users' acceptance of product placement in mobile social networks." *Journal of theoretical and applied electronic commerce research* 15, no. 3 (2020): 1-19.
2. Leong, Pauline Pooi Yin. "Political communication in Malaysia: A study on the use of new media in politics." *JeDEM-eJournal of eDemocracy and Open Government* 7, no. 1 (2015): 46-71.
3. Król, Karol, and Dariusz Zdonek. "Local government website usability on mobile devices: test results and recommendations." *Digital Policy, Regulation and Governance* 23, no. 2 (2021): 173-189.
4. Daud, Siti Hafizah, Mashita Mzin, Wan Farah Wan Shamsuddin, and Khatijah Othman. "IMPLEMENTATION OF E-GOVERNMENT 2.0 IN MALAYSIAN MINISTRIES: TOWARDS A CONCEPTUAL RESEARCH FRAMEWORK." *International Journal of Business and Economy* 2, no. 4 (2020): 115-130.
5. Hung, Shin-Yuan, Kuanchin Chen, and Yi-Kuan Su. "The effect of communication and social motives on E-government services through social media groups." *Behaviour & Information Technology* 39, no. 7 (2020): 741-757.
6. Purbokusumo, Yuyun, and Anang Dwi Santoso. "Predictor for local government social media use in Indonesia." *Digital Policy, Regulation and Governance* 23, no. 6 (2021): 533-552.
7. Yavetz, Gal, and Noa Aharony. "Social media for government information dissemination: content, characteristics and civic engagement." *Aslib Journal of Information Management* 73, no. 3 (2021): 473-496.
8. Sawalha, Sara, Maryam Al-Jamal, and Emad Abu-Shanab. "The influence of utilizing Facebook on e-government adoption." *Electronic Government, an International Journal* 15, no. 1 (2019): 1-20.
9. Ramli, Razlini Mohd. "E - government implementation challenges in Malaysia and South Korea: a comparative study." *The Electronic Journal of Information Systems in Developing Countries* 80, no. 1 (2017): 1-26.
10. Kim, Suk Kyoung, Min Jae Park, and Jae Jeung Rho. "Effect of the Government's Use of Social Media on the Reliability of the Government: Focus on Twitter." *Public Management Review* 17, no. 3 (2015): 328-355.
11. United Nations. *United Nations E-Government Survey 2022*. United Nations: New York (2022): 69

12. MAMPU, <https://www.mampu.gov.my/en/publication/>, last accessed 2023/05/22.
13. Dominic, Diana, and Imelda Albert Gisip. "EFFECT OF SOCIAL MEDIA USAGE IN GOVERNMENT COMMUNICATION EFFORT." *CURRENT ISSUES, EMERGING DESIGN AND SYSTEM IN MANAGEMENT, TECHNOLOGY AND EDUCATION* (2020).
14. Chen, Qiang, Chen Min, Wei Zhang, Ge Wang, Xiaoyue Ma, and Richard Evans. "Unpacking the black box: How to promote citizen engagement through government social media during the COVID-19 crisis." *Computers in human behavior* 110 (2020): 106380.
15. Warren, Anne Marie, Ainin Sulaiman, and Noor Ismawati Jaafar. "Social media effects on fostering online civic engagement and building citizen trust and trust in institutions." *Government information quarterly* 31, no. 2 (2014): 291-301.
16. Fang, Jiaming, Zhirong Zhao, Chao Wen, and Ruping Wang. "Design and performance attributes driving mobile travel application engagement." *International Journal of Information Management* 37, no. 4 (2017): 269-283.
17. Di Gangi, Paul M., and Molly M. Wasko. "Social media engagement theory: Exploring the influence of user engagement on social media usage." *Journal of Organizational and End User Computing (JOEUC)* 28, no. 2 (2016): 53-73.
18. Van Tilburg, Wijnand AP, and Eric R. Igou. "Can boredom help? Increased prosocial intentions in response to boredom." *Self and Identity* 16, no. 1 (2017): 82-96.
19. Amosun, Tunde Simeon, Jianxun Chu, Olayemi Hafeez Rufai, Sayibu Muhideen, Riffat Shahani, and Miapheh Kous Gonlepa. "Does e-government help shape citizens' engagement during the COVID-19 crisis? A study of mediational effects of how citizens perceive the government." *Online Information Review* 46, no. 5 (2022): 846-866.
20. Glyptis, Loukas, Michael Christofi, Demetris Vrontis, Manlio Del Giudice, Salomi Dimitriou, and Panayiota Michael. "E-Government implementation challenges in small countries: The project manager's perspective." *Technological Forecasting and social change* 152 (2020): 119880.
21. Rahmanto, Andre N., and Chairul Huda Atma Dirgatama. "The implementation of e-government through social media use in local government of Solo Raya." In *2018 International Conference on Information and Communications Technology (ICOIACT)*, pp. 765-768. IEEE, 2018.
22. Arief, Assaf, Dana Indra Sensuse, Lita Asyriati Latif, and Muhammad Yunus Abbas. "Study on e-government integration: a theoretical and empirical review." In *IOP Conference Series: Materials Science and Engineering*, vol. 1125, no. 1, p. 012028. IOP Publishing, 2021.
23. Cho, Sang Hyun, Sae Yong Oh, Ho Gun Rou, and Gwang Yong Gim. "A study on the factors affecting the continuous use of E-Government Services-Focused on privacy and security concerns." In *2019 20th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD)*, pp. 351-361. IEEE, 2019.
24. Al-Jamal, Maryam, and Emad Abu-Shanab. "The influence of open government on e-government website: the case of Jordan." *International Journal of Electronic Governance* 8, no. 2 (2016): 159-179.
25. Aladwani, Adel M., and Yogesh K. Dwivedi. "Towards a theory of SocioCitizenry: Quality anticipation, trust configuration, and approved adaptation of governmental social media." *International Journal of Information Management* 43 (2018): 261-272.
26. Lean, Ooh Kim, Suhaiza Zailani, T. Ramayah, and Yudi Fernando. "Factors influencing intention to use e-government services among citizens in Malaysia." *International journal of information management* 29, no. 6 (2009): 458-475.

27. Shuib, Liyana, Elaheh Yadegaridehkordi, and Sulaiman Ainin. "Malaysian urban poor adoption of e-government applications and their satisfaction." *Cogent Social Sciences* 5, no. 1 (2019): 1565293.
28. Mishhaal, Dareen A., and Emad Abu-Shanab. "The effect of using social media in governments: framework of communication success." In *ICIT 2015 The 7th International Conference on Information Technology*, pp. 12-15. 2015.
29. Mergel, Ines. "A framework for interpreting social media interactions in the public sector." *Government information quarterly* 30, no. 4 (2013): 327-334.
30. Bertot, John Carlo, Paul T. Jaeger, Sean Munson, and Tom Glaisyer. "Social media technology and government transparency." *Computer* 43, no. 11 (2010): 53-59
31. Bonsón, Enrique, Lourdes Torres, Sonia Royo, and Francisco Flores. "Local e-government 2.0: Social media and corporate transparency in municipalities." *Government information quarterly* 29, no. 2 (2012): 123-132.
32. Sabani, Alvedi. "Investigating the influence of transparency on the adoption of e-Government in Indonesia." *Journal of Science and Technology Policy Management* 12, no. 2 (2021): 236-255.
33. Glass, Lisa-Maria, and Jens Newig. "Governance for achieving the Sustainable Development Goals: How important are participation, policy coherence, reflexivity, adaptation and democratic institutions?" *Earth System Governance* 2 (2019): 100031.
34. Marino, Vittoria, and Letizia Lo Presti. "From citizens to partners: the role of social media content in fostering citizen engagement." *Transforming Government: People, Process and Policy* 12, no. 1 (2018): 39-60.
35. Akter, Shoara, Milon Molla, S. R. Islam, Rezwanul Kabir, and Faysul Alam. "Unequivocal ICT in enhancing the essence of democracy and good governance." *Journal of Modern Accounting and Auditing* 15, no. 1 (2019): 34-39.
36. Santoso, Anang Dwi, Dhia Rinjany, and Oemar Madri Bafadhal. "Social media and local government in indonesia: Adoption, use and stakeholder engagement." *Romanian Journal of Communication and Public Relations* 22, no. 3 (2020): 21-35.
37. Norström, Livia. "Social media as sociomaterial service: on practicing public service innovation in municipalities." PhD diss., University West, 2019.
38. Wahid, Junaid Abdul, Lei Shi, Yongcai Tao, Lin Wei, and Khalid Saleem. "Incorporation of social media indicator in e-government index." In *Proceedings of the 5th International Conference on Communication and Information Processing*, pp. 201-209. 2019.
39. Dekker, Rianne, Puck van den Brink, and Albert Meijer. "Social media adoption in the police: Barriers and strategies." *Government Information Quarterly* 37, no. 2 (2020): 101441.
40. Rasmussen, Joel, and Øyvind Ihlen. "Risk, crisis, and social media: A systematic review of seven years' research." *Nordicom Review* 38, no. 2 (2017): 1-17.
41. Bonsón, Enrique, Sonia Royo, and Melinda Ratkai. "Citizens' engagement on local governments' Facebook sites. An empirical analysis: The impact of different media and content types in Western Europe." *Government information quarterly* 32, no. 1 (2015): 52-62.
42. Neely, Stephen R., and Matthew Collins. "Social media and crisis communications: A survey of local governments in Florida." *Journal of homeland security and emergency management* 15, no. 1 (2018).
43. Zavattaro, Staci M., and Lori A. Brainard. "Social media as micro-encounters: Millennial preferences as moderators of digital public value creation." *International Journal of Public Sector Management* (2019).
44. Palmgreen, Philip. "Uses and gratifications: A theoretical perspective." *Annals of the International Communication Association* 8, no. 1 (1984): 20-55.

45. Cutler, Neal E., and James A. Danowski. "Process gratification in aging cohorts." *Journalism Quarterly* 57, no. 2 (1980): 269-276.
46. Stafford, Marla Royne, and Thomas F. Stafford. "Mechanical commercial avoidance: A uses and gratifications perspective." *Journal of Current Issues & Research in Advertising* 18, no. 2 (1996): 27-38.
47. Rubin, Alan M. "Uses-and-gratifications perspective on media effects." In *Media effects*, pp. 181-200. Routledge, 2009.
48. Sundar, S. Shyam, and Anthony M. Limperos. "Uses and grats 2.0: New gratifications for new media." *Journal of Broadcasting & Electronic Media* 57, no. 4 (2013): 504-525.
49. Chen, Kuan-Ju, and Hoi Ling Cheung. "Unlocking the power of ephemeral content: The roles of motivations, gratification, need for closure, and engagement." *Computers in Human Behavior* 97 (2019): 67-74.
50. Li, Qian, Xunhua Guo, and Xue Bai. "Weekdays or weekends: Exploring the impacts of microblog posting patterns on gratification and addiction." *Information & Management* 54, no. 5 (2017): 613-624.
51. Chiu, Chao-Min, and Hsin-Yi Huang. "Examining the antecedents of user gratification and its effects on individuals' social network services usage: the moderating role of habit." *European Journal of Information Systems* 24 (2015): 411-430.
52. Faulkner, Nicholas, Bradley Jorgensen, and Georgina Koufariotis. "Can behavioural interventions increase citizens' use of e-government? Evidence from a quasi-experimental trial." *Government Information Quarterly* 36, no. 1 (2019): 61-68.
53. Feeney, Mary K., and Gregory Porumbescu. "The limits of social media for public administration research and practice." *Public administration review* 81, no. 4 (2021): 787-792.
54. Khanyako, Eseri, and Gilbert Maiga. "An information security model for e-government services adoption in Uganda." In *2013 IST-Africa Conference & Exhibition*, pp. 1-11. IEEE, 2013.
55. Shuib, Liyana, Elaheh Yadegaridehkordi, and Sulaiman Ainin. "Malaysian urban poor adoption of e-government applications and their satisfaction." *Cogent Social Sciences* 5, no. 1 (2019): 1565293.
56. Alzahrani, Latifa, Wafi Al-Karaghoul, and Vishanth Weerakkody. "Analysing the critical factors influencing trust in e-government adoption from citizens' perspective: A systematic review and a conceptual framework." *International business review* 26, no. 1 (2017): 164-175.
57. Hooda Nandal, Apeksha, and M. L. Singla. "Investigating the impact of metaphors on citizens' adoption of e-governance in developing countries: an empirical study." *Transforming Government: People, Process and Policy* 13, no. 1 (2019): 34-61.
58. Sundar, S. Shyam. "Social psychology of interactivity in human-website interaction." (2009).
59. Calder, Bobby J., and Edward C. Malthouse. "Media engagement and advertising effectiveness." *Kellogg on advertising & media: the Kellogg School of Management* (2012): 1-36.
60. Yang, Yi, Wen Deng, Yi Zhang, and Zijun Mao. "Promoting public engagement during the COVID-19 crisis: how effective is the Wuhan local Government's information release?" *International journal of environmental research and public health* 18, no. 1 (2021): 118.
61. Denктаş-Şakar, Gül, and Ebru Sürücü. "Stakeholder engagement via social media: an analysis of third-party logistics companies." *The Service Industries Journal* 40, no. 11-12 (2020): 866-889.
62. Ma, Shoufeng, Shixin Zhang, Geng Li, and Yi Wu. "Exploring information security education on social media use: Perspective of uses and gratifications theory." *Aslib Journal of Information Management* (2019).

63. Malthouse, Edward C., Michael Haenlein, Bernd Skiera, Egbert Wege, and Michael Zhang. "Managing customer relationships in the social media era: Introducing the social CRM house." *Journal of interactive marketing* 27, no. 4 (2013): 270-280.
64. Dwivedi, Yogesh K., Nripendra P. Rana, Mina Tajvidi, Banita Lal, Ganesh P. Sahu, and Ashish Gupta. "Exploring the role of social media in e-government: an analysis of emerging literature." In Proceedings of the 10th international conference on theory and practice of electronic governance, pp. 97-106. 2017.
65. Jiang, Hua, Yi Luo, and Owen Kulemeka. "Social media engagement as an evaluation barometer: Insights from communication executives." *Public relations review* 42, no. 4 (2016): 679-691.
66. Razak, F. Z. B. A., Bakar, A. A., & Abdullah, W. S. W. (2017). How perceived effort expectancy and social influence affects the continuance of intention to use e-government. A study of a Malaysian government service. *Electronic Government, An International Journal*, 13(1), 69-80.
67. Steiner, Emil, and Kun Xu. "Binge-watching motivates change: Uses and gratifications of streaming video viewers challenge traditional TV research." *Convergence* 26, no. 1 (2020): 82-101.
68. Du, Jie, Peter Kerkhof, and Guido M. van Koningsbruggen. "Predictors of social media self-control failure: Immediate gratifications, habitual checking, ubiquity, and notifications." *Cyberpsychology, Behavior, and Social Networking* 22, no. 7 (2019): 477-485.
69. Hariguna, Taqwa, Untung Rahardja, and Qurotul Aini. "Effect of social media activities to determinants public participate intention of e-government." *Procedia Computer Science* 161 (2019): 233-241.
70. Brodie, Roderick J., Ana Ilic, Biljana Juric, and Linda Hollebeek. "Consumer engagement in a virtual brand community: An exploratory analysis." *Journal of business research* 66, no. 1 (2013): 105-114.
71. Ruggiero, Thomas E. "Uses and gratifications theory in the 21st century." *Mass communication & society* 3, no. 1 (2000): 3-37.
72. Blumler, Jay G., and Elihu Katz. "The Uses of Mass Communications: Current Perspectives on Gratifications Research. Sage Annual Reviews of Communication Research Volume III." (1974).
73. Mensah, Isaac Kofi, Chuanyong Luo, and Emad Abu-Shanab. "Citizen use of e-government services websites: A proposed e-government adoption recommendation model (EGARM)." *International Journal of Electronic Government Research (IJEGR)* 17, no. 2 (2021): 19-42.
74. Venkatesh, Viswanath, Michael G. Morris, Gordon B. Davis, and Fred D. Davis. "User acceptance of information technology: Toward a unified view." *MIS quarterly* (2003): 425-478.
75. Mackenzie, Mark. *The role of Social Media in SMEs Sports Sponsorship within the context of The Fourth Industrial Revolution*. The IIE, 2020.
76. Alruwaie, Mubarak, Ramzi El-Haddadeh, and Vishanth Weerakkody. "Citizens' continuous use of eGovernment services: The role of self-efficacy, outcome expectations and satisfaction." *Government Information Quarterly* 37, no. 3 (2020): 101485.

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