

# Emotional Communication and Polarization on Social Media Platforms

**Yuhang Zhang**

Shanghai High School International  
Division

## Abstract:

Social media platforms shape emotional communication and influence how people interact. Emotional content spreads faster than neutral content. Users respond with likes, shares, and comments. These actions turn emotion into a system of signals. Algorithms increase the visibility of emotional messages and create echo chambers. Users form group identity through emotional markers, symbols, and narratives. Emotional communication creates division between groups and increases affective polarization. Researchers observe emotional contagion, identity formation, algorithmic influence, and misinformation spread. Efforts to reduce polarization include platform moderation, regulation, fact-checking, and digital literacy. Future work can explore emotional behavior across cultures, age groups, new platforms, and design solutions. Emotional communication remains a central force in digital society and continues to shape online behavior.

**Keywords:** emotional communication; social media, affective polarization, echo chambers, algorithmic influence, group identity, misinformation, emotional contagion

## Introduction

Social media platforms are places where people communicate and express emotions daily. Users post messages, read messages, and react to them. These platforms shape how people think and how they feel about others. Platforms like Facebook, TikTok, X, and Instagram allow users to quickly engage in emotional communication (Kietzmann et al., 2011). Emotional content spreads in various forms, including anger, fear, sadness, joy, and pride (Brady et al., 2017). Social media platforms are places where emotional information spreads rapidly. Users post, read, and react to emotional information, and these reactions influence people's feelings and the formation of

their opinions. Emotional content is often more likely to gain attention than neutral content. Messages with strong emotions receive more reactions, comments, and shares (Rathje et al., 2021). Algorithms on social platforms increase the visibility of this information. They prioritize content that keeps users engaged and active (Bucher, 2018). A short post with anger or outrage can reach many users, while a calm post is less likely to spread widely (Brady et al., 2021). Emotional content is more likely to attract attention than neutral content, especially when algorithms boost its visibility.

Affective polarization describes hostile emotions towards people outside one's social group. Affec-

tive polarization intensifies when people express strong emotions in online discussions (Iyengar et al., 2019). Emotional language online influences how users perceive those with opposing views. Negative emotions create divisions and a sense of “us” versus “them” (Yarchi et al., 2021). Users participating in online debates may develop stronger feelings of dislike towards others after spending time in an emotionally charged online environment (Rathje et al., 2021). Strong emotional language exacerbates affective polarization because it creates divisions between groups and reinforces the “us” versus “them” mentality. Online emotional communication lacks social cues. Users cannot see facial expressions or hear tone of voice. This makes emotional messages more intense. People can express strong emotions more freely without worrying about others’ reactions (Walther, 2011). Computer-mediated communication limits social presence, which changes how users interpret emotional signals. Emotions also influence information dissemination. Moral and emotional language increases the likelihood of information being shared (Brady et al., 2017). Users often overestimate the intensity of emotions in the online world. This is because people see a stream of emotional content in their feeds (Schöne et al., 2021). When users repeatedly read emotional posts, they may begin to believe that society is angrier or more divided than it actually is. The lack of face-to-face social cues online exacerbates emotional intensity. Repeated exposure to emotional content also affects users’ perceptions of society.

Algorithms guide emotional communication. Algorithms push posts to users that match their past reactions. These patterns trap users in a cycle of emotional content (Cinelli et al., 2021). Emotional content becomes the focus of attention, and emotional responses become the driving force for increasing content visibility. Emotional communication on social media is not always negative. Happy posts, supportive messages, and positive stories can also spread widely (Kramer et al., 2014). Positive content affects emotional states, and so does negative content. Emotions influence how people feel in real life and how they interact with others online. Emotional communication is not always negative, but negative emotions tend to elicit more user engagement than positive emotions. This paper argues that emotional communication on social media platforms is a major driver of online polarization because emotional content spreads faster than neutral information, shapes group identity, and alters users’ perceptions of social reality, ultimately influencing how individuals form opinions and interact with others in the digital space.

#### Mechanisms of Emotional Communication

Emotional contagion spreads rapidly on social media. After seeing a post, users respond through likes, shares, and

comments. These actions are emotional signals, expressing approval, support, anger, or opposition (Kramer et al., 2014). These emotional signals provide feedback to the poster and influence the form of future posts. Users often post emotional content to attract attention. Emotional content receives more views and interactions. Emotional content can bring a sense of accomplishment. When others respond, users feel noticed and influential (Bucher, 2018). Sometimes, users post angry or indignant content to elicit stronger reactions. They repeat this pattern, thus continuously amplifying emotional contagion. This section shows that emotional communication on social media does not happen randomly but follows certain patterns. Users post emotional content because emotional signals attract attention, increase visibility, and provide personal rewards.

Algorithms fuel emotional contagion. Algorithms categorize user behavior, detect which posts receive more interaction, and push emotional content to a wider audience (Cinelli et al., 2021). A post that evokes anger can reach many users, while a neutral post may only reach a few. Emotional intensity becomes a major driver of visibility. Users are also influenced by the emotions of others. Emotional contagion refers to the process by which a person experiences corresponding emotions after reading someone else’s emotional expression (Kramer et al., 2014). A sad post makes others feel sad, and a proud post makes others feel proud. Social media platforms transform emotions into waves of contagion, and these emotional waves influence the emotions of the group. Moral and emotional frameworks accelerate this spread. Moral language connects emotions with values such as justice or harm. Content containing moral emotions spreads more widely than content without these elements (Brady et al., 2017). Moral emotions are often accompanied by anger or disgust. Moral content also conveys identity and stance information. Emotions also change how users process information. When users are emotionally aroused, they reduce their thinking time (Brady et al., 2021). Users react quickly, responding without carefully reading the details and sharing without thinking.

The large number of rapid actions in a short time allows emotional contagion to spread rapidly across the network. Rapid dissemination amplifies emotions. Platforms magnify these signals because algorithms are designed to prioritize user interaction. Emotional contagion spreads emotions from one user to another, transforming individual emotions into collective emotional waves. Moral frameworks further intensify this emotional strength, allowing emotional content to more deeply influence users’ values and identities. Over time, emotional expression becomes the norm in digital spaces. Calm or neutral voices gradually disappear due to a lack of feedback. Emotion becomes

the language of online survival.

Online public spaces develop emotional norms. Users find that emotional posts receive interaction, while calm posts go unnoticed. Users adjust their language style according to the environment, creating a feedback loop. Emotional language gradually becomes the default mode of expression, eventually becoming the standard form of digital communication (Yarchi et al., 2021). Users feel pressured to express themselves emotionally in order to be heard. Groups use emotional communication to draw boundaries. Groups convey messages through symbols, hashtags, colors, and slogans. These signals indicate the identity of group members. The emotional meaning embedded within these symbols constructs group identity (Iyengar et al., 2019). Group identity transforms emotional communication into a sign of loyalty. Users learn to express themselves in a way that conforms to their group. This means that emotional communication is not only a result of user choice but also a result of platform design. Emotional intensity becomes a measure of success. The stronger the emotion, the more likely it is to be seen. Therefore, the online environment rewards quick reactions rather than thoughtful consideration. Users adapt. Users understand that emotional language empowers them. Groups utilize this emotional language to define boundaries and reinforce identity.

## **Formation of Group Identity**

Social media platforms provide users with spaces to form groups. Users gather around shared beliefs. Users gather around shared emotions. Users join groups by following pages, hashtags, and accounts. These behaviors demonstrate a sense of belonging. Group identity is formed through patterns of emotional communication (Tajfel & Turner, 1986). Groups use emotional signals to differentiate between in-group and out-group members. Users post text, images, and emojis to express loyalty. Users express shared anger towards out-groups. Users express shared pride towards in-groups (Brady et al., 2017). Emotional signals become identifiers. These identifiers establish emotional boundaries between groups. This section demonstrates that group identity on social media is built and maintained through emotions.

Social identity theory explains that people form identities through group membership (Tajfel & Turner, 1986). Social identity is built through emotions. When emotions are strong, users feel a stronger sense of identity. Users feel closer to the group when posts make them feel proud. Users feel more loyal when posts make them angry at out-groups (Iyengar et al., 2019). Groups create shared narratives. These narratives shape how members communicate. Narratives include storylines that explain why the group

is right. Narratives also include storylines that show why out-groups are wrong. Emotional communication empowers these narratives. Emotional responses make narratives more memorable (Yarchi et al., 2021). Emotional stories spread quickly through information streams. Online groups also use symbols. These symbols include hashtags, slogans, memes, images, and colors. These symbols act as emotional codes. Users who understand these codes feel like they belong to the group. Users who don't understand these codes feel like they don't belong to the group (Cinelli et al., 2021). Symbols help users recognize each other without direct conversation. Users gather around shared beliefs and emotions, and emotional signals become markers of belonging. Symbols, narratives, and repetitive emotional language reinforce this sense of belonging and draw clear lines between in-group and out-group members.

The echo chamber effect enhances group identity. Users in an echo chamber only see posts from members of their group. They only read content that aligns with group emotions, and they fail to see any opinions that challenge their group's perspective. Emotional communication becomes more intense, and group identity becomes more rigid (Cinelli et al., 2021). Users begin to feel that the group is an extension of themselves. Group identity influences how users communicate. To gain group acceptance, users learn to use language similar to that of other group members. They avoid neutral language and instead adopt emotionally charged language to garner support. Tone, content, and communication style all become emotional. Emotional language becomes a norm within the group (Brady et al., 2021). Users who violate this norm may face the risk of being silenced or ostracized. Group identity also changes how users perceive others. Users develop in-group bias, feeling trust towards members of their group while feeling alienated, or even angry, towards those outside the group, viewing them as threats. Emotional communication shapes these feelings (Iyengar et al., 2019). The echo chamber effect reinforces this identity by limiting exposure to diverse viewpoints, leading to deeper emotional loyalty and more extreme communication styles. As users adjust their tone and behavior to conform to group expectations, emotional expression becomes a necessary condition for acceptance. In this process, the digital space transforms emotion into a social adhesive, making emotional communication crucial for the survival of the community and shaping how users interact with allies and adversaries online.

## **Process of Polarization on Social Media**

Polarization on social media is gradually intensifying. Users first encounter emotionally charged posts. Users react.

Users follow accounts that align with their emotions. This leads to initial divisions between groups (Iyengar et al., 2019). Algorithms play a role in this division. Algorithms recommend content to users that matches their past clicks, likes, and shares (Bucher, 2018). Users therefore only see similar viewpoints and not differing ones. Information becomes narrowed, forming an “echo chamber” (Cinelli et al., 2021). In the “echo chamber,” users repeat shared beliefs. Emotional language becomes more intense. Each repetition of information intensifies the emotional response. Users’ perceptions of outsiders also change. When users see negative emotional content about other groups, their emotions become stronger. Users may feel anger, fear, or disgust (Rathje et al., 2021). Negative emotions spread online and influence people’s thinking. Users begin to believe that others are wrong, or even dangerous. This section shows that polarization on social media does not happen overnight. It gradually develops through repeated emotional interactions, platform design, and social reinforcement. Emotional content causes users to diverge in the early stages, and algorithms exacerbate this divergence by limiting users’ exposure to different viewpoints. Negative emotional information directed at outsiders changes users’ thinking, making them perceive others as dangerous or hostile.

Moral frameworks amplify this growth. Moral emotions, combined with anger, produce strong reactions (Brady et al., 2017). Users spread moral messages. These messages become markers of loyalty. These markers shape online behavior. Users who repeatedly express moral outrage gain attention. Users who do not express moral outrage lose attention. Social approval is closely linked to emotional expression (Brady et al., 2021). Speed is key to this process. Social media allows for instant replies. Users respond within seconds. Users post before thinking. Users share before reading. Fast action leaves no time for reflection (Kramer et al., 2014). Emotion becomes the fastest tool. Fast tools dominate platform design. When users draw clear boundaries, polarization emerges. Users distinguish between “us” and “them.” They view outsiders as adversaries and insiders as allies (Tajfel & Turner, 1986). Emotional information reinforces these boundaries, which become walls. These walls transform the platform into a fragmented space, and fragmentation becomes the norm. Repeated exposure to emotional information also alters cognition. Users perceive society as more divided than it actually is and people as more hostile than they truly are. Social media presents extreme emotions, which become commonplace and acceptable (Schöne et al., 2021). Social identity is then solidified. Users associate emotions with their identity, defending their group identity and rejecting anything that challenges it (Yarchi et al., 2021). Moral

frameworks and rapid posting habits further exacerbate this division. Over time, emotional boundaries evolve into fixed social divides, with users defending their identities and refusing to accept differing opinions. Polarization becomes a normal part of online life, a phenomenon shaped by recurring emotional cycles across platforms.

#### Attempts to Reduce Polarization

Social media platforms attempt to control emotional communication. Platforms establish rules, remove violent posts, flag misinformation, and limit the spread of harmful content (Meta Oversight Board, 2022). These measures aim to limit emotional conflict and protect users. Governments are also attempting to take countermeasures. Governments develop cybersecurity policies, requiring platforms to remove hate speech and to identify harmful posts more quickly (European Commission, 2022). Regulations incentivize platforms to take action and change their decision-making. Users also attempt to reduce polarization. Some users post calm messages, calling for open dialogue. They use simple language and encourage others to slow down their thinking. However, calm voices often struggle to gain attention and spread in the information stream (Kramer et al., 2014). This section highlights that reducing polarization on social media is difficult because emotional communication is closely intertwined with how platforms operate, user behavior, and how information spreads online.

Digital literacy programs provide education. Digital literacy teaches people how to read content. Digital literacy teaches users how to identify emotional manipulation (Guess et al., 2020). Users who understand the platform will react differently. Thoughtful users are more resistant to emotional manipulation. Education can change emotional outcomes. Some platforms are testing design changes. Design changes include reducing notifications. Design changes include issuing warnings before sharing. Design changes can slow down emotional responses. Design changes can give users time to think (Rathje et al., 2021). Time helps reduce emotional contagion. Time helps reduce division. Education and design improvements may offer some solutions, but these methods are slow and often limited by business models that rely on user engagement. Research suggests that group interaction can reduce polarization. Online forums that integrate diverse perspectives help users see others as individuals (Iyengar et al., 2019). Diverse communication spaces can reduce fear, reduce stereotypes, and form new emotional patterns. However, attempts to reduce polarization also face many limitations. Platforms rely on user engagement. Emotional content increases user engagement (Brady et al., 2021). If emotional content decreases, platform profits will decline. Therefore, efforts to reduce emotional conflict conflict with business

objectives. Users also resist platform control. Users view content moderation as censorship (Meta Oversight Board, 2022). These attempts can trigger emotional responses from both sides. Efforts to create diverse spaces demonstrate that meaningful interactions between different groups are indeed helpful, but this is only possible if users are willing to listen and the platform supports such an environment. Polarization remains a persistent challenge, and long-term change requires structural changes, cultural shifts, and time. The problem lies not only in the emotional content itself, but also in a digital system that rewards emotion over rational thought. Without changing this fundamental foundation, various strategies may only alleviate symptoms without addressing the root cause.

#### Research Observations

Researchers have found that emotional content spreads faster than neutral content. Emotional posts receive more attention. Emotional posts generate more interaction. Emotional posts produce higher engagement (Brady et al., 2017). Engagement becomes a measurable outcome. Emotional intensity can predict engagement. Emotional contagion is a common research focus. Emotional contagion means that users can feel emotions through other users' posts. Researchers have shown that sadness, happiness, and anger can spread through social networks (Kramer et al., 2014). Emotional transmission does not require face-to-face contact. Emotional transmission does not require sound or touch. Text on a screen can change emotions. This section shows that research consistently agrees that emotions are a core driving force of digital behavior.

Neuroscience research provides corroboration. Brain scans show that emotional language activates the brain's emotional centers more than neutral language (Lindquist et al., 2012). Users who see emotional posts exhibit stronger emotional memories. Emotional information lingers longer in the mind. Emotional information becomes part of identity. Researchers also study platform design. Algorithms that promote emotional content create new social environments. These environments exacerbate polarization (Cinelli et al., 2021). Algorithm design becomes as important as user behavior. Researchers track how design choices alter emotional communication. The research explains why emotional content spreads faster than neutral information, how users experience emotional contagion, and how neuroscience supports the power of emotional information.

Scholars also study emotional framing effects. Emotional framing changes people's perceptions. Framing information with fear makes the information feel completely different; framing information with pride also makes the information feel completely different. Emotional framing affects user behavior and voting choices (Brady et al.,

2021). Emotions shape opinion formation. Together, these findings demonstrate that emotional communication is not merely a feature of online interaction, but a structural condition that determines how people think, behave, and construct social meaning in digital spaces.

## Conclusion

Social media is a platform for emotionally driven communication, where emotions spread faster than facts. Emotions shape users' thinking and influence how they perceive others. The platform guides users to focus on emotional responses, and users comply with this trend. The constant reinforcement of emotional signals leads to the formation of group identity and exacerbates divisions between groups.

Polarization doesn't happen overnight; it gradually develops through daily emotional habits. It's caused by design choices that reward anger and quick reactions; it's caused by the fear and distrust that spread across screens. Emotional communication becomes the norm, and users forget what calm language sounds like. People are trying to address this problem: platforms are setting rules; governments are enacting policies; users are attempting to express themselves more gently. These measures help, but they struggle to withstand the powerful influence of emotionally driven design. Emotional communication is part of how the platform operates. Change requires time and new tools. The study of emotional communication is far from over; new platforms will emerge, and new emotional patterns will surface. Researchers, educators, and users will all play a role. The future depends on whether cyberspace can support both emotional expression and rational understanding.

## References

- Brady, W. J., McLoughlin, K., Doan, T. N., & Crockett, M. J. (2021). How social learning amplifies moral outrage expression in online social networks. *Science Advances*, 7(33), eabe5641. <https://doi.org/10.1126/sciadv.abe5641>
- Brady, W. J., Wills, J. A., Jost, J. T., Tucker, J. A., & Van Bavel, J. J. (2017). Emotion shapes the diffusion of moralized content in social networks. *Proceedings of the National Academy of Sciences*, 114(28), 7313–7318. <https://doi.org/10.1073/pnas.1618923114>
- Bucher, T. (2018). *If... Then: Algorithmic power and politics*. Oxford University Press.
- Cinelli, M., Morales, G. D. F., Galeazzi, A., Quattrociocchi, W., & Starnini, M. (2021). The echo chamber effect on social media. *Proceedings of the National Academy of Sciences*, 118(9), e2023301118. <https://doi.org/10.1073/pnas.2023301118>

- European Commission. (2022). Digital Services Act: Rules for online platforms. Publications Office of the European Union.
- Guess, A., Lerner, M., Lyons, B., Montgomery, J. M., Nyhan, B., Reifler, J., & Sircar, N. (2020). A digital media literacy intervention increases discernment between mainstream and false news in the United States and India. *Proceedings of the National Academy of Sciences*, 117(27), 15536–15545. <https://doi.org/10.1073/pnas.1920498117>
- Iyengar, S., Lelkes, Y., Levendusky, M., Malhotra, N., & Westwood, S. J. (2019). The origins and consequences of affective polarization in the United States. *Annual Review of Political Science*, 22, 129–146. <https://doi.org/10.1146/annurev-polisci-051117-073034>
- Kaye, L. K., Chen, C., & Zeng, J. (2021). The psychology of TikTok: A systematic review. *Cyberpsychology, Behavior, and Social Networking*, 24(11), 1–9.
- Kietzmann, J. H., Hermkens, K., McCarthy, I. P., & Silvestre, B. S. (2011). Social media? Get serious! Understanding the functional building blocks of social media. *Business Horizons*, 54(3), 241–251. <https://doi.org/10.1016/j.bushor.2011.01.005>
- Kramer, A. D. I., Guillory, J. E., & Hancock, J. T. (2014). Experimental evidence of massive-scale emotional contagion through social networks. *Proceedings of the National Academy of Sciences*, 111(24), 8788–8790. <https://doi.org/10.1073/pnas.1320040111>
- Lim, D. (2020). Emotion in digital communication across cultures. *Journal of Cross-Cultural Psychology*, 51(7), 547–566. <https://doi.org/10.1177/0022022120933254>
- Lindquist, K. A., Satpute, A. B., Wager, T. D., Weber, J., & Barrett, L. F. (2012). The brain basis of emotion: A meta-analytic review. *Behavioral and Brain Sciences*, 35(3), 121–143. <https://doi.org/10.1017/S0140525X11000446>
- Meta Oversight Board. (2022). Content moderation annual report. Meta Platforms Inc.
- Miers, A. C., Blöte, A. W., Bokhorst, C. L., & Westenberg, P. M. (2021). Age differences in emotional expression online. *Journal of Adolescence*, 89, 1–10.
- Pennycook, G., & Rand, D. G. (2019). Reducing misinformation online. *Psychological Science*, 30(11), 1874–1887.
- Rathje, S., Van Bavel, J. J., & van der Linden, S. (2021). Out-group animosity drives engagement on social media. *Proceedings of the National Academy of Sciences*, 118(26), e2024292118. <https://doi.org/10.1073/pnas.2024292118>
- Schöne, J., Parkinson, C., & Turner, B. O. (2021). The emotional impact of repeated exposure to social media posts. *Journal of Media Psychology*, 33(3), 119–129. <https://doi.org/10.1027/1864-1105/a000290>
- Tajfel, H., & Turner, J. C. (1986). The social identity theory of intergroup behavior. In S. Worchel & W. G. Austin (Eds.), *Psychology of intergroup relations* (pp. 7–24). Nelson-Hall.
- Vosoughi, S., Roy, D., & Aral, S. (2018). The spread of true and false news online. *Science*, 359(6380), 1146–1151. <https://doi.org/10.1126/science.aap9559>
- Yarchi, M., Baden, C., & Kligler-Vilenchik, N. (2021). Political polarization on social media: A comparative analysis. *Communication Research*, 48(2), 169–197.