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Exploring Cryptocurrency Perceptions and Its Global Conflict Resolution Concepts: Sentiment and Discourse Analysis

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Abstract
The intersection of cryptocurrency and international conflict resolution is a growing area of study, with many pressing questions about public conceptions and the constituent discourses of cryptocurrency in the context of global conflict. This paper will examine these perceptions using both sentiment and discourse analysis. Sentiment analysis uses R Studio on social media data, specifically Twitter, classifying public sentiment towards cryptocurrency, particularly Bitcoin, into three categories: positive, negative, and neutral. Meanwhile, parallel discourse analysis uses NVivo to examine the regular use of terms in research articles about cryptocurrency and its potential impact on conflict resolution. The qualitative review provides a deeper insight into the concepts that prompt public debate. The diversity of opinions will come forth in this research, as sentiment analysis will show the dominance of both positive and negative views. At the same time, discourse analysis will highlight the common themes of financial independence, regulatory barriers, and the ethical implications of using cryptocurrency in conflict situations. While some view cryptocurrencies as empowering more significant numbers of people and allowing the silenced to be heard, free from the constraints of mainstream institutions, others rise to point out the concerns of the volatile prices, potential for abuse, and lack of regulation to prevent abuse from taking place with these assets. This work adds to the increasing awareness related to how cryptocurrencies are seen to address international conflicts.

1. Introduction

This Since the presence of Bitcoin in 2009, cryptocurrencies have experienced quite rapid development [1]. As a new technology in the financial field, cryptocurrencies also provide a decentralized financial alternative. This digital transition covers not only changes in the functions of financial structures but also almost all levels of global socio-economic systems, starting from the resolution of conflicts to international relations [2]. Recently, cryptocurrency has taken centre stage, becoming a highly debated issue in academic debates among policy thinkers and even public society. In most instances, these views depend on technological, legal, and socio-economic factors. Some people consider cryptocurrency a game-changing tool for financial inclusion; it allows the poorest to enjoy an equal chance [3]. Others, however, believe that cryptocurrency is a wellspring of volatility that contributes to inequality and fuels illicit activities [4].

The inherently decentralized and borderless characteristics of digital currencies create advantages and obstacles in international conflict resolution [5]. On one side, cryptocurrencies possess the potential to circumvent conventional economic sanctions and offer alternative financial pathways in areas affected by conflict [4]. Conversely, their lack of regulation gives rise to apprehensions regarding their potential utilization for financing terrorism and various other types of conflict [6].

A detailed analysis of the dual influences of cryptocurrencies on perceptions and conflict resolution would require an in-depth approach that surpasses conventional economic and political perspectives. Sentiment and discourse analysis, for example, help assess the many ways different actors have framed cryptocurrencies and how these framing activities influence the nature of global conflict [7]. This study will gain further insight into the shifting narratives and their implications for international stability as they measure sentiment and analyze cryptocurrency discourses. The present investigation intends to examine the intricate perceptions associated with cryptocurrency and its prospective function in resolving global conflicts, utilizing an integrated methodology encompassing sentiment and discourse

analysis. In conjunction with the discourse prevalent within academic and policy-oriented discussions, this study aspires to reveal the fundamental elements that influence these perceptions through the assessment of sentiments articulated by various stakeholders, such as governmental entities, financial organisations, and the broader public.

Additionally, it will investigate how these perceptions align with or diverge from existing conflict resolution concepts. In all, the timing and importance of this inquiry into perceptions of cryptocurrency and their interaction with world conflict resolution must be considered as one tries to conceptualize the more significant implications of this digital shift. With the growing importance of cryptocurrencies in the world arena, it becomes necessary to critically judge their impact on international relations and the nature of conflict to ensure that they contribute to world stability and do not heighten existing tensions.

2. Literature Review

Exploring the perception of cryptocurrency and its potential role in global conflict resolution involves understanding the complex sentiments and discourses surrounding digital currencies. This analysis is crucial as cryptocurrency continues to gain attention in global finance which is influencing consumer behaviour and regulations.

Sentiment analysis across various studies reveals a mixed emotional landscape towards cryptocurrencies. A study using Twitter data found that neutral sentiment was predominant, with 91% of tweets being neutral, followed by 6.1% negative and 2.9% positive sentiments [8]. Another study using an ensemble LSTM-GRU model found that happiness was the most common emotion associated with cryptocurrencies, followed by fear and surprise [9]. The sentiment surrounding cryptocurrencies is volatile, often influenced by market trends and regulatory news. Advanced NLP models like GPT-4 and BERT have been employed to analyze sentiment dynamics, providing insights that can inform investment decisions and risk management strategies [7].

Social media platforms are pivotal in shaping public discourse on cryptocurrencies. A comprehensive analysis of social media discourse highlighted dominant sentiments of anticipation and positivity, interwoven with negativity, particularly anger and loss [5]. This reflects the speculative nature of cryptocurrency investments and the emotional responses they evoke. Psycholinguistic analysis of tweets related to various cryptocurrencies revealed distinctive linguistic patterns within each coin's community, indicating diverse perceptions and interactions in the cryptocurrency space [1].

The global perception of cryptocurrencies is heavily influenced by regulatory environments, which vary significantly across regions. For instance, Eastern and Western nations exhibit different regulatory approaches due to factors like wealth, risk tolerance, and government restrictions [2]. This regulatory diversity can lead to conflicts in international financial systems.

Awareness and perceptions of cryptocurrencies are influenced by social circles and online platforms, with younger generations showing higher interest and investment in digital currencies [10]. This demographic shift could play a role in shaping future financial landscapes and conflict resolution strategies. Public sentiment analysis can inform policymakers and investors about the feasibility and risks associated with cryptocurrency investments. For example, Sweden shows a high positive sentiment towards cryptocurrency investment, while the UK exhibits a more cautious stance [11]. Understanding these perceptions can aid in developing policies that mitigate conflicts arising from cryptocurrency adoption.

While the sentiment and discourse surrounding cryptocurrencies are complex and multifaceted, they offer valuable insights into the potential for cryptocurrencies to influence global conflict resolution. However, the volatile nature of these sentiments and the diverse regulatory landscapes present challenges that need to be addressed. Ongoing monitoring and analysis of public sentiment are essential to navigate the evolving cryptocurrency ecosystem and its implications for global finance and conflict resolution.

3. Method

The integration of sentiment and discourse analysis is used to analyze perceptions about cryptocurrency and its potential role in solving world conflicts. For this study, sentiment analysis is done on a dataset collected from Twitter through natural language processing in 2022 and 2023 in which the processes using R Studio application. It looked at prevailing sentiments–whether positive, negative, or neutral (lexicon-based sentiment scoring)–on cryptocurrency for insight into public opinion and the underlying emotional tone on the subject.

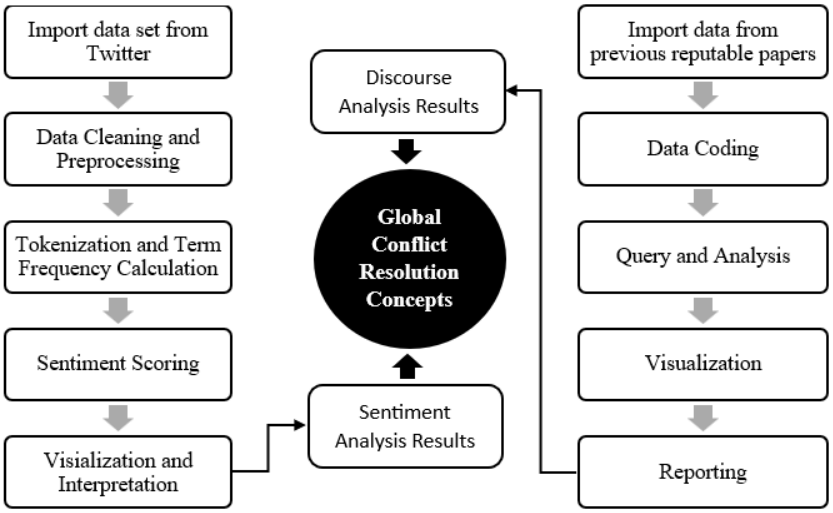

Fig. 1 Methodology Flow

Discourse analysis materials include academic papers published on topics concerning cryptocurrencies and global conflict resolution using Nvivo 12 application. It identifies specific themes, dominant narratives, and arguments in the discourse about how cryptocurrencies can influence conflict dynamics. Therefore, this study also aims to demonstrate conceptual associations between the perceptions of cryptocurrencies and their implications for conflict resolution. Visualization and Interpretation

These findings from the two analyses are then carried forward to determine the correlations between public sentiment and academic discourses. This will offer a multi-dimensional understanding of how different domains perceive the place of cryptocurrencies and how these may influence or reflect other conflict resolution strategies. Therein, given the complex interlinkages of factors involved, the paper offers a nuanced insight into the role of cryptocurrency in exacerbating or mitigating global conflicts and provides valuable insights for research related to cryptocurrency and international relations.

4. Results and Discussions

4.1.Sentimental Analysis

There are 76.797 tweets (including re-tweet) from Twitter in 2022 and 2023, then it is processed into R Studio which is the results of the sentiment analysis can be seen in Figure 2 on the sentiment distribution chart for Bitcoin. The figure reveals an interesting balance between positive and negative opinions. The chart shows that positive and negative sentiments are evenly represented, with each category having two occurrences. This suggests that opinions about Bitcoin during this period were highly polarized. The number of neutral sentiments, which only reached one occurrence, was much lower, indicating that discussions about Bitcoin were mostly characterized by strong opinions rather than indifferent or neutral views.

The relatively even distribution of positive and negative sentiments implies that Bitcoin generates mixed reactions on Twitter. This polarization may be due to various factors affecting the cryptocurrency, such as its market volatility, regulatory news, or significant technological developments. The scarcity of neutral sentiments suggests a tendency for individuals to have different and polarized views about Bitcoin, rather than having a balanced or indifferent perspective. Overall, this sentiment analysis

suggests that discussions around Bitcoin are characterized by significant differences of opinion. This polarized sentiment reflects the broader debate and controversy surrounding cryptocurrencies, providing insight into the strong and contrasting views held by the public during the period observed.

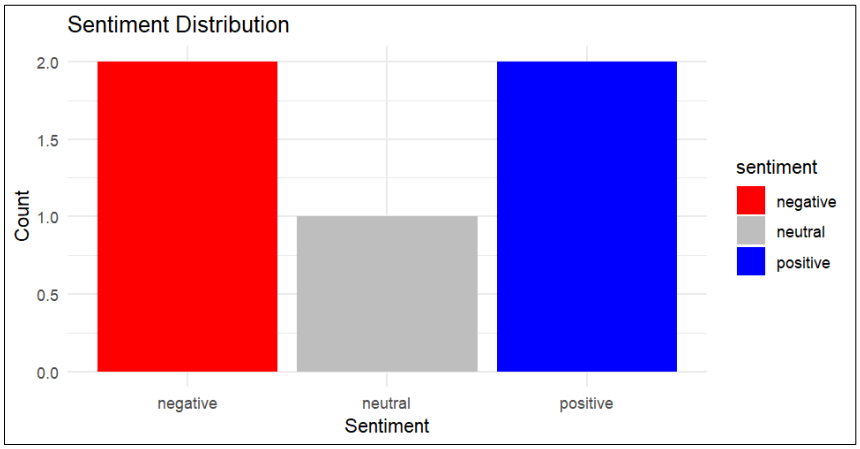

Fig. 2 Sentiment Distribution

The table below categorizes words into "Positive Words" and "Negative Words" about Bitcoin with their respective total occurrences. "Bullish" and "Breaking" are the most frequent in the categories, suggesting a focus on perspective dynamics. Positive words generally have higher total occurrences compared to negative words, indicating a possibly optimistic sentiment in the analyzed texts. The word "Gold" appears prominently in both categories, highlighting its dual perception in sentiment analysis about Bitcoin. The prevalence of financial terms like "Bullish," "Bearish," and "Gold" suggests the analysis pertains to financial markets. The significant difference in occurrences between the top positive and negative words could imply a stronger leaning towards positive perspective sentiment.

Table 1. Sentiment Words

No	Positive Words		Negative Words	
	Word	Total	Word	Total
1	Bullish	1837	Breaking	2338
2	Gold	1502	Fear	1682
3	Support	1263	Greed	1194
4	Top	1181	Hard	721
5	Worth	1097	Risk	672
6	Free	1090	Resistance	606
7	Freedom	798	Bad	518
8	Ready	756	Bearish	510
9	Win	689	Lost	492
10	Love	615	Debt	457

Source: Analyzed by the Authors (2024)

Figure 3. Wordcloud

Source: Analyzed by the Authors (2024)

The Wordcloud visually in figure 3 represents the frequency of words; larger fonts indicate higher frequency. Key words include "bullish," "breaking," "fear," "gold," and "support." The dominance of "bullish" and "gold" in larger fonts correlates with their high frequency in Table 1, reinforcing their significance in the sentiment analysis. The presence of emotionally charged words like "fear" and "greed" alongside market terms suggests a complex interplay of emotions in market behaviour. The visualization emphasizes the impact of both positive and negative sentiments, potentially affecting investor behaviour and market trends.

This sentiment landscape offers more than just a snapshot of investor mood. It reflects how public perception of cryptocurrency is shaped by both optimism and anxiety, which are often amplified by market dynamics and global uncertainties. In the broader context of exploring cryptocurrency

perceptions and their connection to global conflict resolution, this mixture of emotions reveals how digital assets like cryptocurrency are not only viewed as financial instruments but also as potential tools for economic autonomy and resistance against traditional financial structures. The frequent association with "gold" implies a search for stability amid economic turbulence, while terms like "fear" and "crash" expose vulnerabilities that could escalate social or geopolitical tensions, especially in regions experiencing economic distress. Thus, the public sentiment captured here is not isolated. It intersects with discourses of economic justice, decentralization, and power redistribution, all of which are relevant to ongoing global discussions about conflict and cooperation in the digital financial era.

4.2.Discourse Analysis

A discourse analysis of the relationship between cryptocurrency and global conflict resolution manifests as a multidimensional discussion. Results highlight a range of stances, reflecting optimism and scepticism about cryptocurrency's potential contribution to peacebuilding and conflict management. Regarding this, the discourse about cryptocurrency in global conflict resolution is polarized. Some look with great hope towards the potential benefits of cryptocurrency [12]. Advocates point to how cryptocurrency, as something decentralized in nature, coupled with the potentiality of financial inclusion, could be used as a tool for economic empowerment and transparency. They even propose that cryptocurrency could reduce economic inequality and grant financial autonomy to the most marginalized communities, thus reducing some of the very causes of conflict [13]. Many discussions tout the fact that blockchain could allow for secure and transparent transactions, engendering confidence in those places where corrupt or inefficient financial systems operate.

On the other hand, there is great concern and scepticism regarding using cryptocurrency in conflict resolution. Some critics say risks may include facilitating illicit activities, economic volatility, and regulatory challenges [14]. They also fear that the unregulated nature of the cryptocurrency market may increase economic disparities or lead to new sources of instability [15]. There are concerns regarding cryptocurrencies that could be used to undermine efforts at stability and peace, be it through illicit activity financing or disruptions to financial systems.

This discussion of findings reveals a significant tension between idealistic promise and practical challenge in integrating cryptocurrencies into global conflict resolution frameworks. Positive discourse showcases the transformative potential of cryptocurrencies to expand financial inclusivity and transparency, going as far as to argue that these attributes have a positive role in reducing some of the economic inequities at the heart of many conflicts. This mirrors broader hopes for technology to enable social change and thereby help develop more equitable economic systems [6]. On the other hand, critical discourse will be about the thoughtful and careful usage of cryptocurrencies in a conflict condition [16]. In this respect, the unregulated nature of digital currencies might hint at possible abuse and economic instability, and essential questions arise on how to handle these challenges best and mitigate attendant risks [17]. This view presents a complex balance of perspective that weighs innovative potential against strength in regulatory frameworks to ensure such integration into the avenues of conflict resolution plays out of the hands of perpetuating existing problems [18].

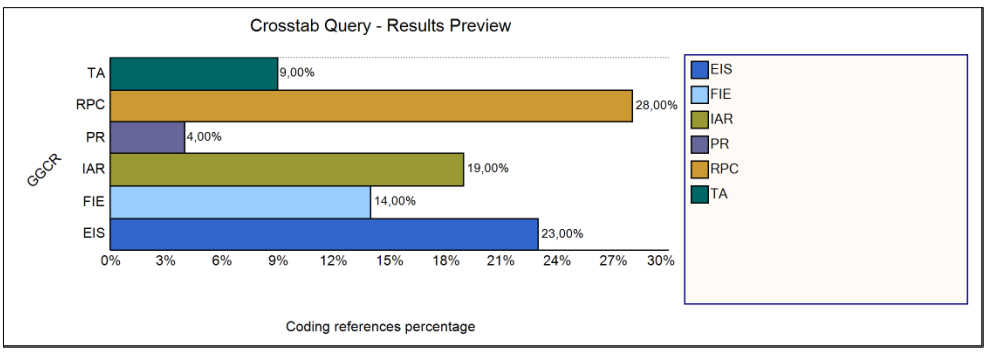

Fig. 4 Role Percentage of Cryptocurrency to The Global Conflict Resolution (CGCR)

Overall, the findings and discussions reflect a dynamic and evolving conversation about the role of cryptocurrency in global conflict resolution. Indeed, enthusiasm was underlined, but so was the critical need for such considered reflection to highlight the risks and challenges. Finally, what will be called for in effectively harnessing cryptocurrencies as a tool in global peacebuilding and conflict management will be nothing short of holistic.

From the data in the form of previous research on this study topic, which is then analyzed using the Nvivo 12 application, the tendency of the percentage of the role of cryptocurrency in global conflict resolution was found. Figure 4 reveals that Regulatory and Policy Challenges (RPC) is in first place with a figure of 28%, meaning that cryptocurrency plays a more significant role in forming appropriate regulations and policies so that the relationship is in the Economic Impact and Stability (EIS) at 23%. Because inappropriate policies related to cryptocurrency will affect the stability of a country's economy, in third place is quite surprising, namely Illicit Activities and Risks (IAR) at 19%, this can be assumed that not many countries have cryptocurrency policies that can ensure the absence of risky activities such as money laundering and terrorism. Next, there are Financial Inclusion and Empowerment (FIE) at 14%, Transparency and Accountability (TA) at 9%, and Peacebuilding and Reconstruction (PR) at 4%. These last three things are also related to regulation, where if cryptocurrencies are adequate and transparent, then world peace can be pursued and increased financial inclusion.

Therefore, sentiment and discourse analysis allow the extraction of meaningful insights into attitudes and behaviour relevant to the memberships in the context of this emerging form of financial technology. The sentiment analysis of cryptocurrency is thus considered the data mining technique applied to understanding market trends and investor behaviour in determining this emerging form of currency by quantitatively capturing public sentiment towards cryptocurrencies [17]. This is important because it represents mass opinion and beliefs from the public society influenced by media coverage and social discourse. Such sentiments are birthed and manifested, and social media discourse analysis will be instrumental in interpreting them [8]. This study reveals the subtlety in public opinion and factors influencing the same by analyzing the use of language on platforms where discussions about cryptocurrencies are rampant.

Furthermore, social media trends point out the shift in the way user behaviour and sentiment take a turn, more so as the adoption of cryptocurrencies starts to take shape across the world markets [19], [20]. Topic modelling analysis supplements this with a more fine-grained analysis of the sentiment of different themes within the cryptocurrency discussion. This approach will analyze the polarity of sentiments relating to the topics addressed and help the researchers identify which areas of cryptocurrency involve either a positive or negative attitude on the part of users. Text mining techniques play an essential role in this regard, as they can draw useful information out of raw, unstructured data for an informative analysis of public opinions. The influence of global events like the COVID-19 pandemic also added another angle to the quest for a perception of cryptocurrencies [5]. The pandemic accelerated changes in many industries, but the sentiment analysis on social media helped capture those changes. As people move through their economic uncertainties, their cognitive appraisals of cryptocurrencies may change to reflect emotional responses to market volatility and investment risks [21]. This sets the stage for sentiment analysis, discourse analysis, and a grander scheme of global events in which cryptocurrency perceptions reside. When used by researchers, these different analytical methods offer the possibility of gaining insight into how public sentiment emerges and how that may influence conflict resolution processes in the cryptocurrency space. Such a multidimensional approach will go a long way in improving understanding of investor behaviour. It will also inform strategies on how to handle the challenges arising in the cryptocurrency market. Combining all these concepts highlights the importance of continued monitoring and analysis of public sentiment in the ever-evolving landscape of cryptocurrencies.

5. Conclusion

The role of cryptocurrencies in conflict resolution in the international arena is dynamic and in flux. While there is enthusiasm, there is also critical reflection, concomitantly outlining the potential benefits and risks associated with cryptocurrencies. Discussion on the subject is polarized; on one end, some

consider cryptocurrency as a means of economic empowerment and transparency that could reduce economic inequality and give financial autonomy to the marginalized sections of society. Others are sceptical, fearing digital currencies will further criminal enterprises and cause economic instability. Another critical finding has to do with the regulatory and policy frameworks. The paper also finds regulatory and policy challenges to be the most crucial factor that takes 28% of discourse. Inappropriate policies weaken an economy and indicate several reasons regulation should be strong enough to prevent abuse.

Cryptocurrencies can extend financial inclusiveness and transparency, which may contribute positively to reducing economic inequities, which are often a source of conflict. The more optimistic of these discourses is the potential of cryptocurrencies to help mitigate many of the financial inequalities that may spur conflict. The research also emphasizes risks and challenges: cryptocurrencies' unregulated nature may lead to economic instability and new sources of conflict. There is a call for this to be cautiously and judiciously done within the framework of conflict resolution so as not to deteriorate the conditions on the ground further. This study highlights on the complex interaction between the potential benefits and risks of cryptocurrencies to contribute toward global conflict resolution by carefully considering ways of regulation.

This study's recommendation for further research is to expand the scope of sentiment analysis using multilingual data, such as Arabic, Russian, Mandarin, and other relevant languages in the world either in tweets or online forums. This will create a more global understanding of public opinion in various regions of the world with different cultural backgrounds. Especially in the use of cryptocurrencies that intersect with geopolitical tensions. Including multilingual sentiment analysis will not only enrich the dataset but also provide a better understanding of how cryptocurrencies are perceived globally in terms of conflict dynamics and economic resilience.

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