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Abstract

Bibliometric Analysis is a means of mapping the latest research using meta data processing using Google Scoler. This study aims to determine the latest research developments on the role of the military. Step-by-step analysis is provided to make it easier for first-time users to access and utilize VOSViewers. This provides data analysis on the role of the military so far by utilizing the mapping tool in VOSViewer. The method used is descriptive qualitative to describe the bibliometric performance of the analysis by producing a visualization of the selected topic network. From the search results, 104 relevant journals published from 2006 to 2023 were found, which were then grouped into five categories according to their year of publication. After grouping the journal data, we found that the total number of articles published linked to the topic of the role of the military was 27 articles. As a result, it is concluded that the military is a field that can be combined with other fields to be studied. This is a way to show many opportunities to find new things to determine the theme. Furthermore, this analysis is expected to function as a source for researchers to conduct research and determine research themes.

Keywords: Military, Development, Bibliometric Analysis.

INTRODUCTION

In the reform era, the role of the military in Indonesia experienced a strict separation as regulated in MPR Decree Number 6/MPR/2000. This decree stipulates that the Indonesian National Army is responsible for maintaining national defense, while the Indonesian National Police has the main task of maintaining domestic security. This separation is the legal basis for developing regulations governing the role and authority of the TNI in the national defense system. Furthermore, Law of the Republic of Indonesia Number 34 of 2004 Article 7 paragraph (1) emphasizes that the main task of the TNI is to uphold state sovereignty, maintain the integrity of the territory of the Unitary State of the Republic of Indonesia based on Pancasila and the 1945 Constitution of the Republic of Indonesia, and protect all people and territory of Indonesia from various threats and disturbances that can disrupt national stability. In carrying out its duties, the TNI carries out two types of operations, namely Military Operations for War and Military Operations Other Than War.

Military Operations Other Than War include various strategic tasks that are not directly related to conventional warfare, but still have a significant impact on the security and stability of the country. Some of these include overcoming armed separatist movements, overcoming armed rebellions, dealing with acts of terrorism, securing border areas, and protecting vital national objects of strategic value. In addition, the TNI also plays a role in carrying out the task of maintaining world peace in accordance with foreign policy, securing the President and Vice President and their families, and empowering national defense areas together with other supporting components in the universal defense system. In addition, the TNI has the responsibility to support government tasks in the regions, including assisting the Police in maintaining public security and order in accordance with applicable laws. Other roles include securing state guests at the level of heads of state or representatives of foreign governments visiting Indonesia, as well as assisting the government in overcoming the impact of natural disasters, evacuation, and providing humanitarian assistance. The TNI also plays a role in search and rescue operations, and supports the government in maintaining the security of waters and airspace from the threat of piracy, hijacking, and smuggling.

The importance of the TNI's role in Military Operations Other Than War shows that the military does not only function in the context of national defense against external threats, but also contributes to maintaining national stability through various forms of non-war operations. Therefore, research on the role of the military, especially in



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the implementation of Military Operations Other Than War, is crucial to provide input in the process of policy formulation and implementation. With a deeper understanding of the implementation of Military Operations Other Than War, the resulting policies can be more targeted and effective in improving national security and resilience.

As a tool of defense and security of the Indonesian National Armyacts as a state apparatus in the field of defense which in carrying out its duties is based on the policies and political decisions of the state. Until now, there has been no follow-up policy or regulation on the role of the TNI as stated in the law above, especially in the implementation of military operations other than war, so that it has the potential to cause problems in its implementation. Where this does not need to happen, as Zinni (2003) wrote in his book The Military's Role in National Building that apart from the role of war or security, the military also has a role in welfare.. This is because it is not yet clear what factors underlie the TNI's involvement in this role and how it will be implemented.

This study aims to search for literature and compare the role of the military in several countries through the VOSviewer application in order to obtain themes that are rarely made by previous researchers for the sake of novelty in research and can be useful as input in making policies on the role of the TNI.

METHOD

In this study, the author uses a qualitative descriptive method to describe and analyze the data used. Journal data collection was carried out by referring to previous studies related to the keyword "military role". To obtain relevant data, the author utilizes a reference management application system, namely Publish or Perish. This application allows the author to select appropriate articles and journals from various leading academic sources, such as Crossref, Google Scholar, Google Scholar Profile, PubMed, Microsoft Academic, Scopus, and Web of Science. By using Publish or Perish, the author can conduct a systematic literature review to obtain a research database that has similarities in the theme being studied. The journals used in this study come from publications in the range of 2006 to 2023. From that period, 104 articles were found that were in accordance with the topic being studied. The data that has been collected is then processed using VOSviewer software. After the data is entered into VOSviewer, the analysis process is carried out with the aim of adjusting the data to relevant keywords. This software functions to process and map the relationships between data so as to produce a visualization of an interconnected information network (Rosmayati & Maulana, 2023).

RESULTS AND DISCUSSION

Based on data obtained from a search using Publish and Perish software, 104 articles on the topic of military roles published in journals between 2006 and 2023 were found. Of the 104 articles, there are 77 items that are not connected to each other, so that the number of connected items is 27. From the Google search results, there are 13 articles that appear the most related to the role of the military. Furthermore, table 1 displays the data that most cites articles in the field of military roles.

No	Cites	Title	Source	Year
1	23	Korea's military service policy issues and directions	Korean Journal of	2011
		for mid- and long-term development(Jung, JS, &	Defense Analysis	
		Sohn, M., 2011)		
2	131	Assessing the Expanded Role of Armed Forces of the	Asia-Pacific Social	2008
		Philippines in Nation-Building(Acop, DS, 2008)	Science Review	
3	43	Economic Development and military	Journal of Strategic	2010
		effectiveness(Beckeley, M., 2010)	Studies	
4	22	The Military'S Role in Nation-Building Peace and	Strategy Research	2006
		Stability Operations Redefined(Bullimore, SL,2006)	Project	
5	501	IFI Post-War Economic Recovery Prescription, and	Review of	2018
		How Feminists Offer a Better Path to Real	International	
		Recovery(Cohn, C., Duncanson, C., 2018)	Political Economy	
6	20	The role of the military to national development in	Public Relations	2020
		Nigeria(Emina, KA, & Ikegbu, EA, 2020)	Journal	
7	45	Conscription, the Military, and Welfare State	Historical Social	2020
		Development(Obinger, H., 2020)	Research	

Table 1. The most cited article on the role of the military.

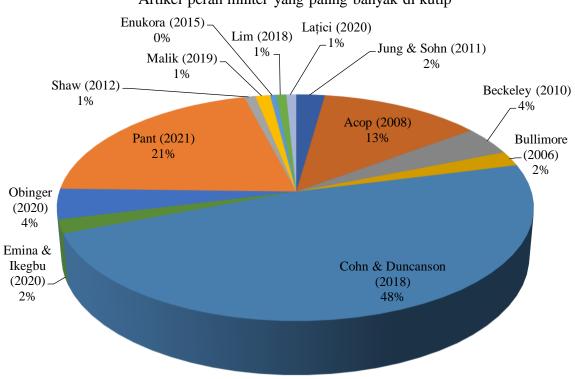


No	Cites	Title	Source	Year
8	214	Transition of Civil-Military Relations for National	Unity Journal	2021
		Development in Nepal(Pant, SB, 2021).		
9	9	the Military As a Contributor To National	South African	2012
		Development(Shaw, A.D., 2012)	Journal of Military	
			Studies	
10	12	India's Armed Forces' Contribution to Nation	CLAWS Journal	2019
		Building (Malik, VP, 2019)		
11	5	The Military and National Development in Nigeria	A Literary	2015
		(Enukora, EN, 2015).	Perspective	
12	8	Perceptions of Emirati Youths on National Service	SAGE Open	2018
		at Initial Implementation Stage(Lim, HL, 2018)		
13	8	The role of armed forces in the fight against	EPRS European	2020
		coronavirus(Lațici, T., 2020).	Parliamentary	
			Research Service	

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Source: processed data, 2023.

From the table above, it can be explained that the highest to lowest citations used by the research are the Cohn and Duncanson (2018) journal with 501 citations, the Pant (2021) journal with 214 citations, the Acop (2008) journal with 131 citations, the Obiger (2020) journal with 45 citations, the Beckeley (2010) journal with 43 citations, the Jung and Sohn (2011) journal with 23 citations, the Bullimore (2006) journal with 22 citations, the Ikegbu (2020) journal with (2020) with 20 citations, the Malik (2019) journal with 12 citations, the Shaw (2012) journal with 9 citations, the Lim (2015) journal and the Latici (2020) journal with 8 citations and the Enukora (2018) journal with 5 citations. It can be seen in the chart as follows:



Artikel peran militer yang paling banyak di kutip



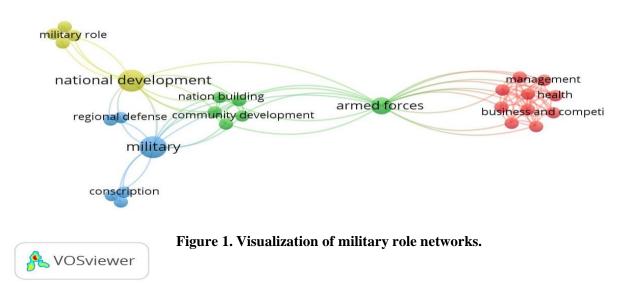


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To address the overall social environmental issues and the trend of changing national demands, South Korea implemented a military policy reform on compulsory military service by cutting the service period for alternative service to community service in order to bring the military closer to fostering public services. (Jung & Sohn, 2011). In addition to having a duty to wage war, the military also often plays an important development role in national development (Acop, 2008). Economic growth will be proportional to the growth of military power (Beckley, 2010). In the world peace mission, to maintain national stability in Iraq and Afghanistan, the US Army carried out activities to improve community welfare through a series of activities that included repairing, maintaining, or building economic infrastructure such as roads, schools, electricity networks, and heavy industrial facilities and health infrastructure, water and wastewater disposal facilities.

Also providing training to the community so that they can work or be assigned to the police, military, prosecutors, and prison officers and other civil administrators (Bullimore, 2006). Adopting the work of feminist economists who emphasize social care and reproduction, human rights, and environmental justice, although not without challenges, can offer a radical new vision for the post-war economy (Cohn et. al., 2018). The military has been shown to do social work as well as contribute its resources to alleviate poverty (Emina & Ikegbu, 2020). Relevant factors are the military's concerns about the quantity and quality of the population, economic, social and security needs to increase legitimacy and to secure mass loyalty (Obinger, 2020). In development, it is revealed that the military has successfully shifted to a new role by effectively engaging in development programs through socio-economic infrastructure development work, through humanitarian assistance in relief missions and contributing to various national pride projects (Pant, 2021).

Military participation and economic development are categorized as contributing to the development of the surrounding area by providing assistance to its citizens as well as one of the economic strengthening of the military to the community so that the community's economy improves through operations other than war (Shaw, 2012). Military doctrine based on literature has shaped the Nigerian military which in terms of function and benefits in national development and has a positive impact on humanity in general (Enukora, 2015). In the interests of recruitment and public love for the military, the United Arab Emirates military has approached through continuous assistance in regional economic development and humanitarian assistance in the region so that residents are close to the military (Lim, 2018). Investment in military readiness and preparedness has proven valuable through the contribution of the armed forces, such as building hospitals, transporting supplies, repatriation and evacuation, managementborders and assisting in law enforcement and economic recovery of communities (Lațici, 2020).





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In Figure 1, the network visualization shows four clusters, cluster 1 in red, cluster 2 in green, cluster 3 in blue, and cluster 4 in yellow. Each ball size and distance term is a visual representation of the connection strength value given in the table, according to Van Eck and Waltman (2010). Next, the data setresearch articles were collected to analyze the relationship between the terms.

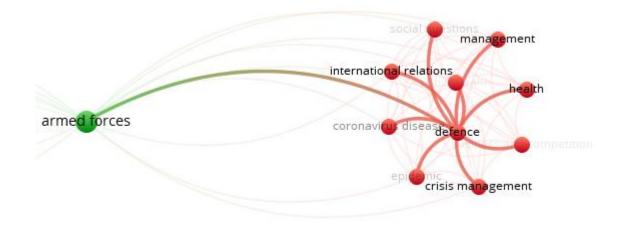


Figure 2. Cluster network visualization 1.

The network visualization in Figure 2 is cluster 1 in red which has 10 items, namely defense, business and competition, coronavirus disease, crisis management, epidemic, health, international relations, management, public health, and social questions. Where defense is central, the total link is 10, accuracy is 1, connecting 9 other items and at the same time connecting cluster 2 with the focus point on the Armed Forces item. This visualization shows that there have been many studies discussing the relationship between defense and the Armed Forces.

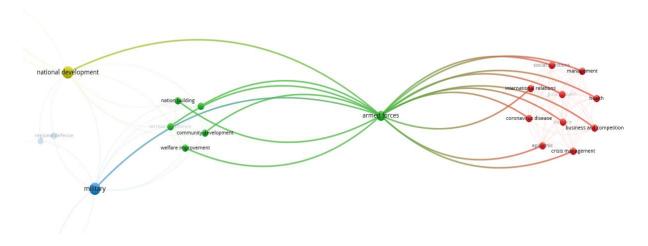


Figure 3. Cluster network visualization 2.

Network visualization in Figure 3, shows cluster 2 in green with 6 items, namely armed forces, community development, national building, regional economic development, territory resilience, and welfare improvement. Where the Armed Forces are central, total links 17, accuracy 2, connected 5 cluster 2 items and simultaneously connect 10 Cluster 1 items and military items cluster 3 and national development items cluster 4. Here, it explains that research on the Armed Forces related to national development, defense, national character, regional resilience, regional economic development, improving community welfare, corona virus, health,



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international relations, business competition, leadership and social problems have been widely carried out by researchers.

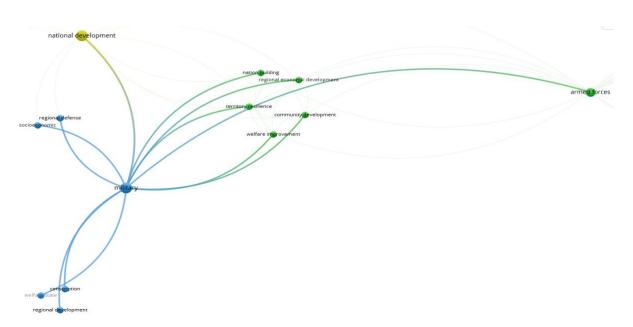


Figure 4. Visualization of cluster network 3.

The network visualization in Figure 4 shows cluster 3 in blue which has 6 items, namely military, conscription, regional defense, regional development, socioeconomic, and welfare state. As the center is the military, total links 13, accuracy 3, connected 5 items cluster 3 and national development cluster 4 and 6 items cluster 2. This illustrates that the military is related to national development, the Armed Forces, military service, regional defense, regional development, socioeconomic and national welfare have been widely researched.

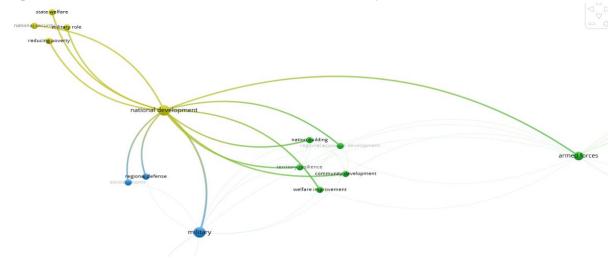


Figure 5. Cluster network visualization 4.

The network visualization in Figure 5 explains the yellow cluster 4 which has 5 items, namely military role, national development, national security, reducing poverty, and state welfare. National development as the center, total links 14, accuracy 3, connected 4 items cluster 4, 6 items cluster 2 and 3 items cluster 3. So the network visualization states that national development related to the role of the military, national welfare, national security,



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poverty alleviation, regional defense, socio-economic, military, national character, regional resilience, increasing welfare, community development and regional economic development have been widely carried out.

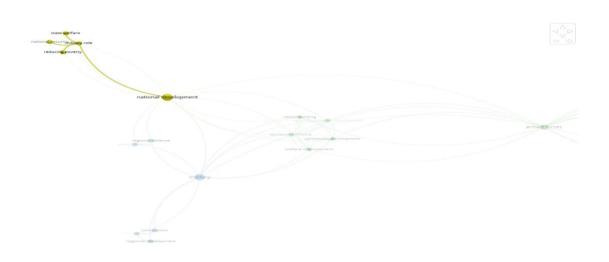
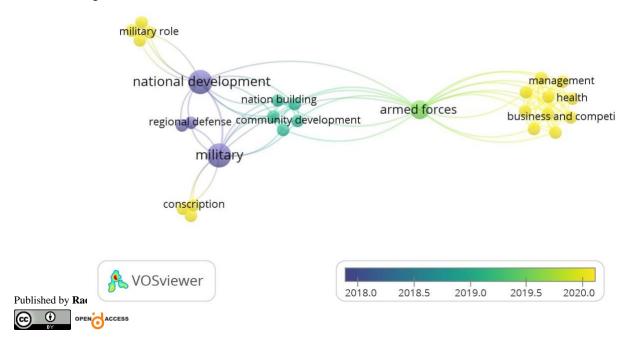


Figure 6. Cluster network visualization 4, Military role as central.

In Figure 6, if the role of the military in network visualization is used as the center, there are 4 links with an accuracy of 1. Where the role of the military is linked to national development, national welfare, poverty alleviation and national security. This means that from the research that has been done, the role of the military is related to security and welfare. Thus, the role of the military is very broad, but no researcher has studied the role of the military linked to regional development and economic development in the regions. This is proven by the results of the network visualization which displays data on the absence of a network between the role of the military and regional economic development in cluster 3. So there is a gap or gap that researchers can use to find new things to determine the research theme.



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Figure 7. Overlay Visualization with VOSviewer software

Next, the terms are color-coded based on the publication period can be seen in Figure 7 above. Concepts such as "military", "national development", "regional defense" and "socio-economic" have been present in special studies since before 2018 (dark purple). Following the color gradation towards blue, we can visually understand how researchers' attention slowly shifted towards "national character", "regional resilience", "improving welfare", "community development" and "regional economic development" in 2019 (emerald). Moving forward in time, mid-2019 the focus was on the topic of "Armed Forces", while early and mid-2020 publications began to focus on "role of the military", "national welfare", "national security", "poverty alleviation", "military service", "regional development", "social", "leadership", Health, "business competition", international relations", "coronavirus" and "epidemic". So from the mapping of the VOSviewer overlay visualization and based on the publication period that has attracted the attention of researchers, it is very interesting to conduct research on the topics of "role of the military" and "regional development".

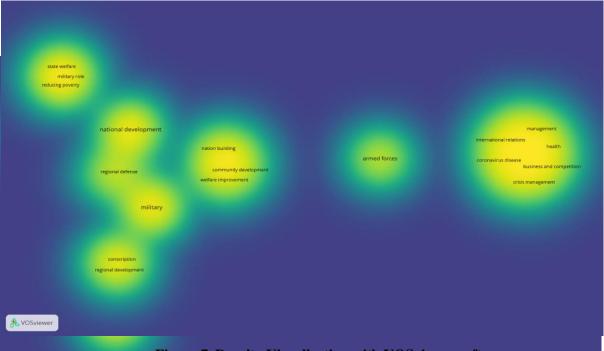


Figure 7. Density Visualization with VOSviewer software

In Figure 7, we can observe the representation of the cluster density image, broadcasting the most visited concepts in the literature, correlated with the concept of the role of the military. According to Van Eck and Waltman (2010), each term has a scope related to a certain dimension and color density. Also, there is a certain distance between each ball. An interesting thing is the fact that the concept of "military role" seems to have a closer relationship with "national welfare", "national security", and "poverty alleviation" compared to the other items. This visual effect can be caused by the fact that the items that are closer on the density map are in the same section of the article. While the most visited item based on the density visualization is "national development". So it would be interesting if the author makes a study that can connect one density with another in order to find something new.

CONCLUSION

The purpose of this study was to examine the bibliometric literature on the role of the military. In the search process using the keyword "military role" found 104 relevant articles, 77 unlinked articles and 27 linked articles. Of the 27 articles there are 13 articles that most discuss the topic of the role of the military. The mapping procedure is completed using VOSviewer. Based on the results of the analysis and mapping with VOSviewer, there are 4 clusters identified in 5 time periods, namely in 2018, mid-2018, 2019, mid-2019 and 2020. From the results of the network visualization, a gap or gap was found that researchers can use to find new things to determine the research theme,



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namely "military role" cluster 4, "regional economic development" cluster 2 and "regional development" cluster 3. Furthermore, based on the publication period that has attracted the attention of researchers in the visualization of the overlay is "military role" cluster 4 and "regional development" cluster 3. For the most visited items based on density visualization is "national development" Cluster 4. So through Bibliometric analysis of military involvement using the VOSviewer application, a theme for novelty in the study was obtained, namely Variable I "military role", Variable II "regional development".

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