EVOLUTION OF COOPERATION IN THE FIELD OF BANKING: A BIBLIOMETRIC ANALYSIS

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Abstract

This study examines the research environment of cooperation in banking by conducting a comprehensive bibliometric analysis over the years. For evaluating the research trend in the field, a total of 874 articles were retrieved from the Scopus database. The work of 'Guinnane Timothy W' in 2001 stand out as one of the most cited works among the analysed documents. Italy has the highest number of scientific productions in the field of cooperative banking. Most of the selected papers are articles which are about 428, book chapters are 74 and reviews are 25 under the total database. In order to analyse the data and provide a thorough picture of the trend, thematic focus, and scientific production in the area of cooperation and banking environment, a bibliometric technique was used. These results help to identify the current status of cooperation and banking and to make valuable contributions in this field. The results can help researchers particularly those who are just starting out in the subject of banking and cooperation define their areas of interest and potential study topics related to cooperation in banking.

Keywords:- Cooperation, cooperative sector, banking, bibliometric analysis, bibliometrix r package, biblioshiny.



y doing an extensive bibliometric examination of the area over several years,

t h estudy looks at the research environment of cooperation in banking. The research trend, theme focus, and the analysis of scholarly publications in the banking and cooperation fields were the primary focuses of the study. 874 data points were obtained from the Scopus database.

A bibliometric approach was used to analyze the data to give a more comprehensive picture of the scientific

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production in the field of banking and collaboration. According to the findings of this bibliometric analysis, cooperative animal breeding was the subject of the first publication in the field of collaboration, which was published in 1911. This was produced under the cooperative animal breeding committee's report. Regarding the study area, the majority of research is carried out in "banking" and "cooperative banks". The most pertinent journals that publish studies about cooperation and banking are "Economics, Econometrics and Finance," "Business, Management and Accounting," and Social Sciences. Italy is the nation with the most scientific publications and is the most significant contributor to the subject of cooperative banking. The terms "banking", "cooperative banks", "cooperative sector", and "credit provision" are commonly used to describe the developing themes of collaboration in the financial industry.

Review of Literature

Fundamentally, the cooperative movement is a break from conventional top-down forms of development, focusing on the ownership and involvement of individuals who have banded together to solve their shared problems. Several German progressives moved to practical, non-political methods of helping the working masses following the unsuccessful uprisings of 1848-1849. The 1840s and 1850s saw the founding of a number of cooperative societies by Hermann Schulze-Delitzsch (1808–1883). The first person to copy Schulze-Delitzsch was Friedrich Raiffeisen (1818-1888)(Guinnane, 1997). British India

emulated the Raiffeisen style cooperative movement to alleviate the misery of the impoverished farmers, particularly from the abuse of the money lenders, cooperative societies typically have democratic government.

Globalisation phenomenon makes influence on cooperative development in the world. Those living in rural areas that are impoverished and may require financial support primarily look to the cooperative sector as a support structure for handling their financial and economic needs. The cooperative model in response to the challenges posed by economic internationalisation and the growing sophistication of the financial markets(Carrasco, 2004). The cooperative legal structure of the Spanish cooperative credit sector sets it apart from other credit companies; i.e. its primary goal is to meet the requirements of its own members. For every year, find evidence of significant scale economies. Several developing nations have success with their creative approaches to reducing poverty, such as the creation of microfinance programmes and the implementation of new agricultural cooperative laws to provide access to rural financing. Aside from the government-funded initiatives like as the People's Bank and Community Bank, there was a noticeable lack of private sector efforts supporting the small-scale industrial industry.(Onyejekwe, 2001). The majority of cooperatives subsequently became members of the network of regional banks and auditing bodies that the cooperatives have created. Auditing groups ensured that fundamental criteria were followed, monitoring member cooperatives and fostering public confidence.(Guinnane, 1997)

Furthermore, the number of cooperative members serves as a proxy for the degree of separation between ownership and control. The transaction costs associated with modifying ownership structures to the ideal control pattern are significant for Austrian cooperative banks.(Gorton & Schmid, 1999)first, the government must pass laws defining the legal framework governing cooperative relations and management systems, and second, policies that support women's income-generating endeavours and are inclusive of all genders must be established to support women's lending. (Chen, 1999). The cooperatives experienced serious variations of the informational and liquidity issues that affect any financial intermediary (Guinnane, 1997).

Problem Statement

The present study talks about the evolution of scholarly publication in the field of cooperation and banking. Numerous studies have been conducted on the subject of cooperation and banking; however, the focus of this study was on the annual scientific production, citation analysis, and thematic trends in this field. It investigates the cooperative banking research environment by performing an extensive bibliometric analysis of the topic over several years. A bibliometric technique was applied to present a comprehensive picture of the trend, thematic background, and scientific output in the field of cooperation and banking. These findings may help researchers in defining their topic of interest and the parts of cooperative banking they wish to look into, especially those who are just getting started in the subject of cooperation and the financial environment.

Scope of the Study

The study having the title, The Evolution of Cooperation in Banking: A Bibliometric Analysis, and it was limited to the terms banking and cooperation. The comprehensive image of papers is that fall under the area of cooperative banking, as shown by the bibliometric approach. The study's scope is restricted to the fields of economics, econometrics, finance, and social science. Articles written in English that are in the final stages of publishing are included.

Significance of the Study

The current state of research on cooperation in banking indicates that 874 articles met the criteria; the majority of these articles are in the field of economics and econometrics. Research on India's cooperative framework was underrepresented, indicating the need for greater contributions to the field of Indian perspective. India is a country that offers a cooperative banking environment that can significantly improve the lives of rural populations. The present study will helpful to identify the current status of articles in cooperative banking environment, thereby it will helpful to understand the unfocused areas of research and in what extend the contributions in the field of research gets its acceptance.

Studies conducted in this area will undoubtedly make productive contributions to the uplift of the sectors in the economic development, particularly the more economically disadvantaged

sections of the country. In this view the present study was significant to evaluate the current stage of developments of researches in cooperation and banking.

Objectives of the Study

Since this study aims to provide a thorough overview of cooperation in the banking environment, a bibliometric analysis is relevant. Present study is aimed at finding the growth and trend in cooperative and banking field. No comprehensive bibliometric analysis of the literature on cooperative banking environments has been carried out. The goals of this study are to: identify prominent scholars and their contributions to cooperative banking environments; investigate publication networks and collaborations across institutions, countries, and regions over time; and analyse the trend of studies in the cooperative banking field over time. The study's findings will helpful for academics in their early years, particularly those who are just beginning to explore the topic of cooperative banking environments.

Methodology

Initially, we started by searching the Scopus database for documents. The search string consists of a mixture of compound terms using the AND operator. The search terms "Cooperative" and "Banking" were entered into the first and second search fields, respectively. With no filter used, the first query produced 874 document results. the combination for searching the article was: (TITLE-ABS-KEY ("cooperative") AND TITLE-ABS-KEY ("banking")) AND (LIMIT-TO (SUBJAREA , "ECON")

S1. No	Inclusion/ Exclusion	criteria	comment
1	Inclusion	Articles that include keywords in the abstract, title, and keyword	A focused search was done using the AND operator and keywords.
2	Inclusion	English-language documents	The study took into account articles written in English.
3	Inclusion	All date of Publication	Did not give a range of dates. Eager to learn about the industry's most recent development.
4	Exclusion	Articles in economics, econometrics and Finance, social science, business management and Accounting	To locate the study's core papers
5	Exclusion	Articles marked as "in progress" at publication	Finally published articles are only taken under the study.

Table 1Inclusion and Exclusion used in the Study

Source: Created by the author

OR LIMIT-TO (SUBJAREA, "SOCI") OR LIMIT-TO (SUBJAREA, "BUSI")) AND (LIMIT-TO (LANGUAGE, "English")) AND (LIMIT-TO (PUBSTAGE, "final"))

In total, 578 most related articles were selected for the analysis after the inclusion and exclusion criteria. The BibTex format of the data exported in this study can be imported into Biblioshiny for Bibliometrix tools. Among the total articles found various filters were applied to all 874 articles. No specification for document type all of them are considered under the analysis, because irrespective of the document type the relevant studies in the field of study were taken.

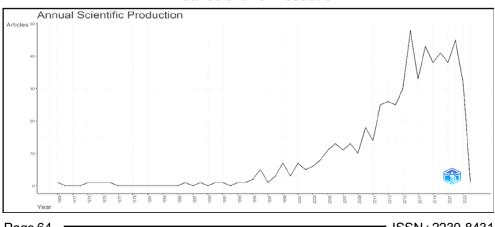
Results and Discussion

Results begins with the presentation of annul scientific production, the average annual growth is 0 according to analysis from the Bibliometrix R. 2016 was the peak point in which 48 documents were published. Followed by 2022 (45) and 2018 (43) publications. Creative approach on publishing articles in the field of cooperation and banking is needed in the sense that the active participation of author to make productive contribution in the field was lacking because the annual growth in the publication was 0 as per the bibliometric analysis. So that mean so much of specific publications are needed to maintain the growth of the scientific publication in the field.

Figure 2 depicts the relevant keywords in the area, from all the database "cooperative banks" and "banking" is the significant keywords within the field. The others are not that much significant.

Figure 3 themes or keywords used in the study are with different relevance according to the current scenario. The basic themes that are used under the study are mainly 'cooperative banks' 'credit' 'financial' 'micro finance' 'evidence' and 'efficiency' etc... the themes which are emerging opportunities in the field of cooperative banking environment are mainly 'retail theory' 'investment policies' etc. And 'money laundering theme was declining in the current times.

Figure 1 Annual Scientific Production





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Total Muller Houderion per Tear							
Year	Articles	Year	Articles	Year	Articles	Year	Articles
1969	1	1983	0	1997	1	2011	14
1970	0	1984	0	1998	3	2012	25
1971	0	1985	0	1999	7	2013	26
1972	0	1986	1	2000	3	2014	25
1973	1	1987	0	2001	7	2015	30
1974	1	1988	1	2002	5	2016	48
1975	1	1989	0	2003	6	2017	33
1976	1	1990	1	2004	8	2018	43
1977	0	1991	1	2005	11	2019	38
1978	0	1992	0	2006	13	2020	41
1979	0	1993	1	2007	11	2021	38
1980	0	1994	1	2008	13	2022	45
1981	0	1995	2	2009	10	2023	32
1982	0	1996	5	2010	18	2024	1

Table 2

Total Article Production per Year

Source: Created by the author from scopus database

Table 2

Main Information

Description	Results		
Main Information About Data			
Timespan	1969:2024		
Sources (Journals, Books, etc)	374		
Documents	573		
Annual Growth Rate %	0		
Document Average Age	9.69		
Average citations per doc	13.49		
References	1		
DOCUMENT CONTENTS			
Keywords Plus (ID)	605		
Author's Keywords (DE)	1523		
Authors	1024		
Authors of single-authored docs	188		
AUTHORS COLLABORATION			
Single-authored docs	214		
Co-Authors per Doc	2.09		
International co-authorships %	17.28		
DOCUMENT TYPES			
article	428		
book	16		
book chapter	74		
book chapter article	2		
conference paper	17		
conference review	2		
editorial	3		
erratum	1		
note	2		
review	25		

Source: Created by the author from scopus database

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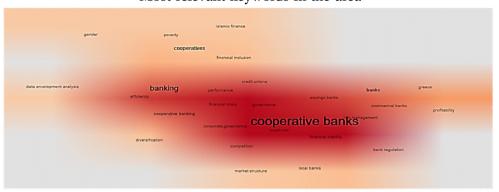


Figure 2 Most relevant keywords in the area

Figure 3 Relevance of various Themes

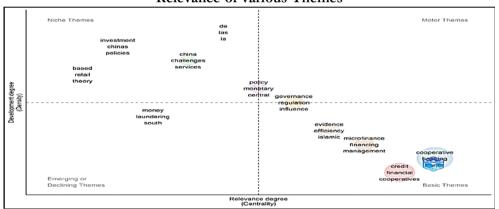
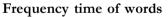
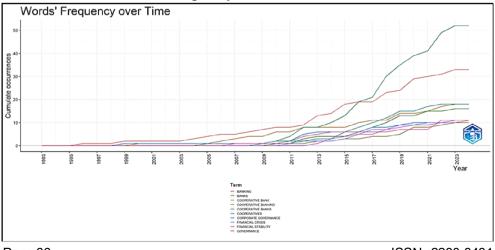


Figure 4





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Most relevant words under the study of evaluation were "banking" because the study finds the relationship between various themes in cooperative sector. As mentioned earlier cooperative sector, credit provision, financial market, and financial system are top most relevant themes under the cooperative banking environment. The major studies conducted within Italy, India, Europe and Russia.

Findings of the Study

- The articles production per year was fluctuating. From 2005 the annual production was slowly increasing, and thereby in the year 2016 annual scientific production was high in comparison with other years.
- Most of the studies in cooperative banking are articles and book chapters.
- The emerging areas under the cooperation and banking was retail theory, investment policies and money laundering under the decline stage.
- The basic themes are cooperative banking, credit financial cooperatives; micro finance etc... most of the studies in the field was under this theme.
- Word frequency is concerned, cooperative banks was most frequently used keyword then comes banking and bank. This increased from 2015 onwards; and reveals the emerging importance of cooperative and banking.

• As per the relevancy of the word the keyword 'banking' was considered to be highest and followed by cooperative sector, credit provision and financial market.

Suggestions of the Study

Studies within the context of cooperative and banking was limited in India, there are many opportunities to research in cooperative banking in Indian perspective. Especially the rural populations are depended mainly on cooperatives for their financial needs; thereby studies need to be conducted in India. There was a limited dimensional division on cooperative banking i.e., there are limited studies which are linking cooperation and banking with another areas. So, there are opportunities to connect cooperative banking with other economic systems, socio economic cultural development of beneficiaries and so on. To truly contribute to this subject, more partnerships between nations and organisations are required. This is because partnerships with nations can yield fruitful outcomes that lead to the creation of strategic solutions for problems. The cooperative sector in our nation is dealing with a number of issues, and in order to address and resolve these issues as well as any new ones, more research in the area of cooperative banking environments is required.

Conclusion

Through the use of bibliometric analysis, this study has attempted to give a thorough evaluation of academic publications in the topic of cooperative banking over time. The study looked into

the themes of banking and cooperation in publications; it honoured eminent academicians for their contributions: it examined citation patterns and yearly scientific output; and it provided a thematic analysis of the field of banking and cooperation environments by outlining its present state with regard to these themes as well as its potential going forward. According to some sources, "banking" and "cooperative banks" are the study areas in which the majority of research is conducted. Italy was the major contributor towards cooperative banking. The evolving themes of cooperation in the financial industry are usually referred to as "banking," "cooperative banks," "cooperative sector," and "credit provision."

Some recommendations for future research in the field of cooperative banking environments are highlighted in this study's conclusion. These findings highlight the significance of deepening further studies to enhance the development and future designs of cooperative banking environments.

Study Limitations

There are various limitations under the study. In the data collection process is with a so many shortcomings, there are various databases can be adopted by the researcher but because of the difficulty in combining the data from various sources,

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only one database is used in the present study. Since the Scopus database was used to gather the study's sample, important information may have been omitted. The analysis would undoubtedly be much enhanced by gathering sample data from several different databases. This restriction should encourage researchers' next efforts to investigate methods of gathering information from several databases using enlarged keywords for a more thorough analysis.

Conclusion

To sum up, we believe that our study's findings will bring light on the state of research and potential future research hotspots for researchers especially the students within the cooperative banking preview. For instance, young researchers just starting out in the field can easily locate the most influential papers, authors, and research hotspots. Furthermore, the present study also highlighted the additional focus made by the new researchers in the field of the cooperative banking environment, which necessarily made emphasis on more relevant areas like corporate governance, corporate social responsibility, digital transition, and furthermore. The results of this investigation offer a summary of the work produced in this area over the years as well as a pertinent guide to the future of emerging developments in the prevailing cooperative environment.

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