

Halal Tourism Research Bibliometric Analysis in Scopus, ProQuest and Ebscohost

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ABSTRACT

With the emerging and increasing interest toward halal product and services, a variety of halal based research can be found in online databases. Halal tourism in research is a quite recent topics in journal articles. Halal tourism subtopics has evolved into many subtopics such as halal culinary, halal destination, halal friendly hotel, halal lodging and halal tourism supply chain. Therefore, this paper aims to analyse, visualize and discover the subject relation made in the topic of halal tourism using co-occurrence words bibliometric analysis. Data are citations from Scopus, ProQuest and Ebscohost databases using 'halal tourism' as keyword. The data corpus are set for research articles in English and the date range set for 1987 to 2019. Total data collection is 383 citations. Data were analysed using Scopus analyzer and VOSviewer version 1.6.10. Findings show that Scopus papers and retrieval is better in term of quality and more representative of the current research direction. Scopus search engine also provides reliable and credible result. The primary clusters in halal tourism research concentrate on research contexts, concept, halal industry and religion research. Future

research should measure the data retrieval, precision and recall to verify findings in this halal tourism research.

Keywords: *Bibliometric, Halal tourism, Subject Relation, VOSviewer*

INTRODUCTION

Halal industry has been growing steadily in recent decade and halal research has branched into many respective subtopics such as halal cosmetics, halal certification, halal slaughter and others. Quite recently, halal tourism topic in research has been emerging steadily. This research is a bibliometric analysis of research been done on halal tourism topic from Scopus, ProQuest and Ebscohost. The objective of this paper is to extract halal tourism concept and citation datasets from research literatures. Islamic knowledge concept is essential complex and requires semantic orientation of English equivalence due to Arabic language. This paper reviews halal contextual subject relation in a state-of-the-art review to understand the concept of halal in Islamic knowledge. Halal tourism concept is also reviewed from past literatures.

The object of the two reviews is to identify and define the concept of halal and halal tourism respectively. In indexing processing and equally in information retrieval, identifying key term or index term are essential step which will define the outcome of data analysis in the end. Lancaster (2003) who is among the fundamental philosopher in information retrieval advocated analysis of concept at the beginning of an indexing procedure. Principally, conceptual analysis is process which topic or subject is qualitatively examined and the end an operational definition can be produced. From the operational definition, possible index term of keyword term can be deduced and used in the next step, which is in citation data retrieval process.

METHODOLOGY

This research used a mixed of qualitative and quantitative method in which bibliometric study is used. The research is an exploratory sequential model in which qualitative data precedes quantitative data, (Creswell, 2014).

Datasets are citations from Scopus, ProQuest and Ebscohost in the form of journal articles in English language. The time range differs due to availability in respective databases. Time range in Scopus is 22 years (1997-2019), ProQuest data time range is 31 years (1987-2018) and Ebscohost data time range is 6 years (2012-2018). Total datasets of citation is 383. The research begins with concept operational definition and with triple element systematic mapping review of the concept of halal in Islam. From the definition and reviews, established index term can be used in information retrieval process. The following set up was used in Scopus:

TITLE-ABS-KEY (halal AND tourism) AND (LIMIT-TO (LANGUAGE , “English”))

For ProQuest, the following search strategy was used,

KEYWORD (halal tourism), SOURCE TYPE (scholarly journal), PUBLICATION DATE (1987-2018), LANGUAGE (English)

In Ebscohost, the search strategy was the following,

KEYWORD (halal tourism), SOURCE TYPE (academic journal), PUBLICATION DATE (2012-2018), LANGUAGE (English)

The research utilizes rigorous and repeated process of checking and crosschecking data and statistic. The goal is to identify index term connection and subject relation in clusters. The bibliometric used here is co-occurrence of words or terms from data corpus, specifically from titles and abstract. Analysis of citation data is done using VOSviewer and for data crosschecking purposes GEPHI, JabRef and Microsoft® Excel is also used. The research flowchart are as follows:

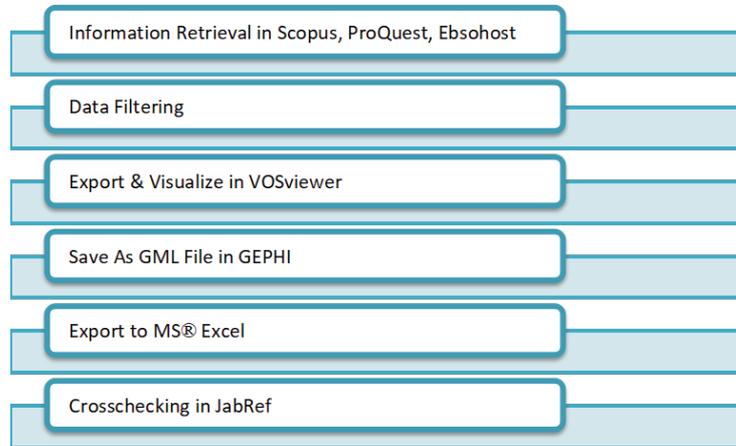


Figure 1: Research Flowchart

HALAL CONCEPTUAL ANALYSIS AND ONTOLOGY REVIEW

In relation to halal, several authors had attempted to map its subject relation particularly in its ontological form. Ontology is an explicit set of specification of concepts that describe its relation in a domain, (Gruber, 1995). A number of researches have been done to map out halal subject relation in ontology. The following papers are list of article journal and conference papers specifically mentioning halal and its entities.

Table 1: Halal Subject Relation in Ontology

No.	Authors	Subject Covered	Source	Language
1.	(Kasim, Omar, Fudzee, Ramli, Salamat & Mahdin, 2017)	Halal food industry, E number ontology	IOP Conference Series: Materials Science and Engineering	English
2.	(Farooqui & Noordin, 2015)	Literature review on Quran ontology	Journal of Theoretical and Applied Information Technology	English
3.	(Hanum, Bakar, Rahman, Rosli, & Musa, 2014)	Topic analysis using latent semantic technique	Procedia - Social and Behavioral Sciences	English, Malay
4.	(Abdullah, 2014)	Knowledge sharing process among the halal communities of practice (CoP)	2 nd International Conference on Emerging Trends in Engineering and Technology (ICETET'2014)	English
5.	(Yauri, Kadir, Azman, & Murad, 2013)	Semantic search system for Quranic knowledge using ontology assertion capability	Research Journal of Applied Sciences, Engineering and Technology	English
6.	(Iqbal, Mustapha, & Yusoff, 2013)	Quran ontology supports contextual information	Multicultural Education and Technology Journal	English
7.	(Omar, Kasim, & Hashim, 2013)	E numbers chemical ontology in food additives	Journal of Industrial and Intelligent Information	English

Kasim et al.(2017) and Omar et al.(2013) proposed ontologies on E chemical entities, which is chemical substances used in additives in food processing. The E chemical entities is mostly made from doubtful or haram substances. Farooqi and Noordin (2015) reviewed researches on al-Quran ontology and mentioned a few papers with halal terms in it. Hanum et al. (2014) explored and developed a prototype for topic query in Malay documents from translated al-Quran collection, translated hadiths collection and web pages. Abdullah (2014) suggested a halal knowledge management that can benefit the communities of practice in halal industry. Yauri et al. (2013) presented a semantic search system that can retrieve verses in relation to their queries relating to al-Quran. Omar et al.(2013) developed al-Quran ontology that supports contextual information that is flexible and extendable for future Quran related semantic application.

HALAL TOURISM DEFINITION

Halal tourism and Islamic tourism is two concepts debated in literatures as to what really is the subject is about. Some authors consider both are the same and others refers to it as separate concepts altogether. The following table list differing opinion of authors about the actual definition of halal tourism.

Table 2: Halal Tourism and Islamic Tourism Concept Review

No.	Authors	Definition	Highlights
1.	(Jafari & Scott, 2014)	Islamic tourism: "The encouragement of tourists likely to meet the requirements of Sharia law".	Focuses on Islamic law and its requirements to meet the tourist needs but ignored the religion of tourists.
2.	(Carboni, Perelli, & Sistu, 2014)	Islamic tourism: "tourism in accordance with Islam, involving people of the Muslim faith who are interested in keeping with their personal religious habits whilst travelling".	Considers the Islamic law, the target customers (Muslim), and the location of activity, but the product and service offered (i.e. food, facilities) is ignored

3.	(Zamani-Farahani & Henderson, 2010)	Halal/Islamic tourism: "tourism mainly by Muslims who prefer to stay within their culture"	For Muslims and the location of the activities is in Muslim country
4.	(Battour & Ismail, 2016)	Halal tourism: "any tourism object or action which is permissible according to Islamic teachings to use or engage by Muslims in tourism industry"	Consider the Islamic law as the basis to deliver tourism products and service to the target customers who are Muslims, such as halal hotels, halal resorts, halal restaurants, and others halal. Claims that location of activity is not limited to the Muslim world.

The different opinion of what is halal tourism centers around target customers and the country involved as shown in the review table above. Definitely from the concept review, there are two school of thoughts involving what is considered as halal or Islamic tourism. First, is the believe that the desired tourism is for Muslim travelers traveling in a Muslim country, (Zamani-Farahani & Henderson, 2010) or a halal friendly country, (Battour & Ismail, 2016; Carboni et al., 2014) which more suitable to say that the concept fit the description of an Islamic tourism. The other school of thoughts, ignores the religion of the tourist (Muslim or non-Muslim) and focuses more on the Islamic law and the halal products and services regardless of the country (Muslim or otherwise), (Jafari & Scott, 2014). In the context of this research, decision must be made to choose between the terms or a combination of them in the retrieval process. As this research is an exploratory design, halal tourism is chosen as the keyword in the retrieval stage.

FINDINGS

In Scopus, 80 research papers were retrieved and in VOSviewer shows the co-occurrence of term used in the data corpus. Halal tourism appeared more than any other terms in the dataset of 80 research papers. Islamic tourism is the second most used term in the Scopus dataset. The term halal tourism carries 20 occurrence weight from 80 research titles and abstracts.

The related term being used are medical tourism, Islamic tourism, heritage tourism and halal hospitality. VOSviewer also divides the results into four numerical clusters. The clusters are mainly about research contexts, halal tourism concepts, halal industry and religious research.

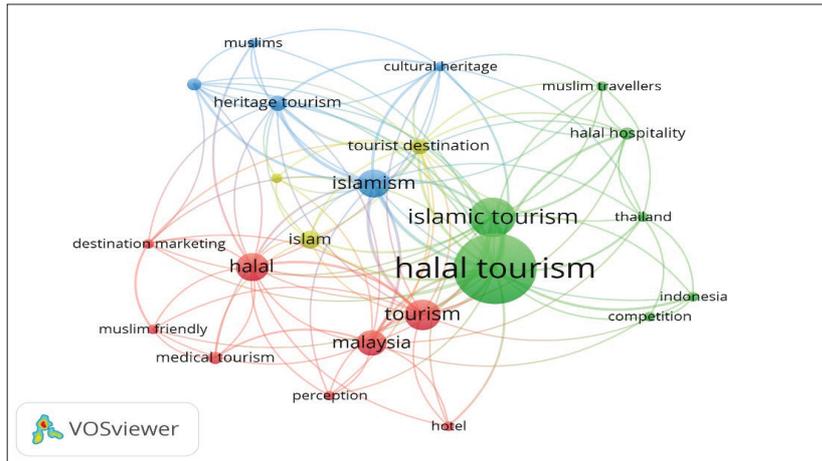
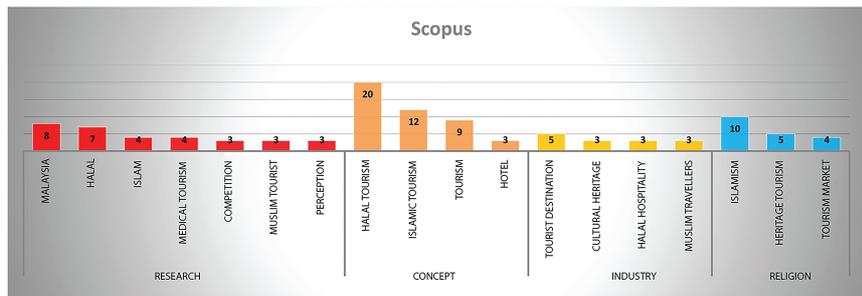


Figure 2: Scopus Co-word Occurrence Visualization

Table 3: Scopus Co-word Occurrence Data Statistics



ProQuest result differs significantly from Scopus, halal tourism term is not the highest score keyword in the result findings which is an oddity considering the keyword used in halal tourism. The highest term found in ProQuest is business research related topics, while halal tourism term amounting just 8 occurrences in the dataset. Islamic tourism does not appear in the ProQuest result unlike in the Scopus. The result which were data analysed from titles and abstract in RIS format file seemed to capture a set of structured terms which routinely and formally used in abstract writing such as relationship, effect, influence and sample. The contrasting result is believed mainly because of Scopus quality characteristics. Scopus is an indexing database in which stringent procedure of peer reviewed process applied to all journal in its database. Scopus database ranks its journals, articles and authors according to numerous research metric. The ranking are basically depending on citation frequency and journal ranking in SCImago Journal & Country Rank. As result, Scopus papers and retrieval is better in term of quality and more representative of the current research direction.

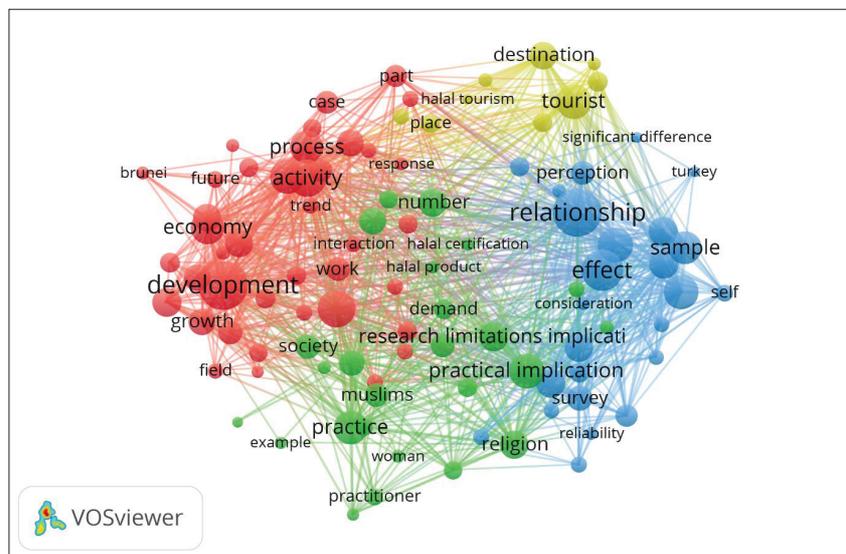
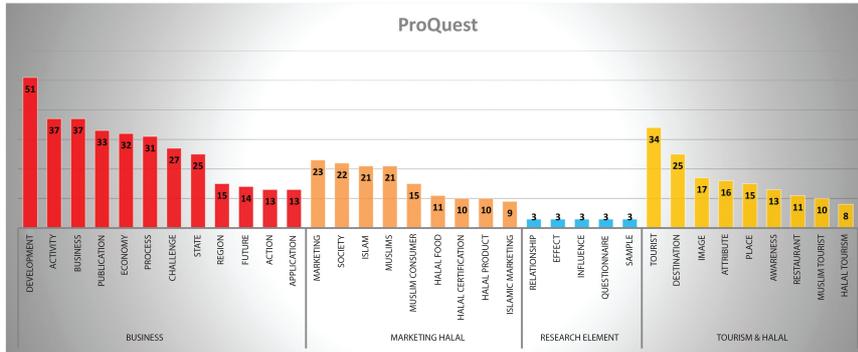


Figure 3: ProQuest Co-word Occurrence Visualization

Table 4: ProQuest Co-word Occurrence Data Statistics



Ebscohost retrieval returns 19 relevant document from 280 citations queried in the database. The result was filtered for English language and article journals. The central index term from Ebscohost data is ‘halal food industry’ and halal tourism related terms is religious and Islamic tourism. Though the retrieval result returns is very low in comparison to total retrieval, Ebscohost result captured papers discussing halal tourism, Islamic tourism and religious tourism.

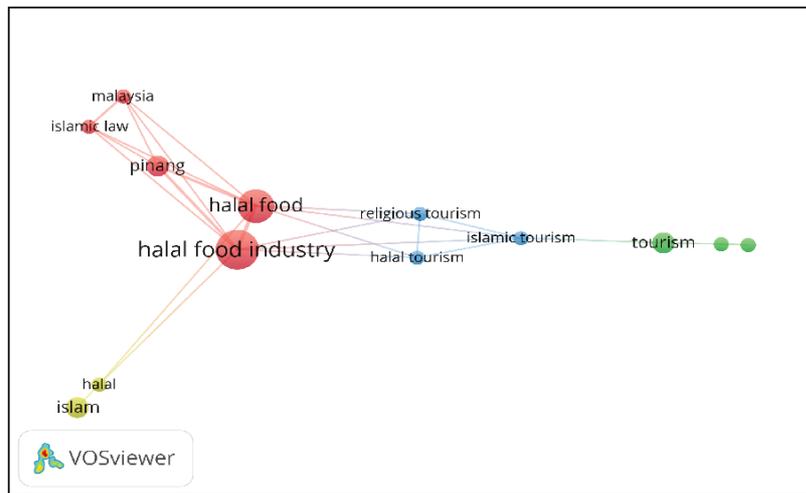
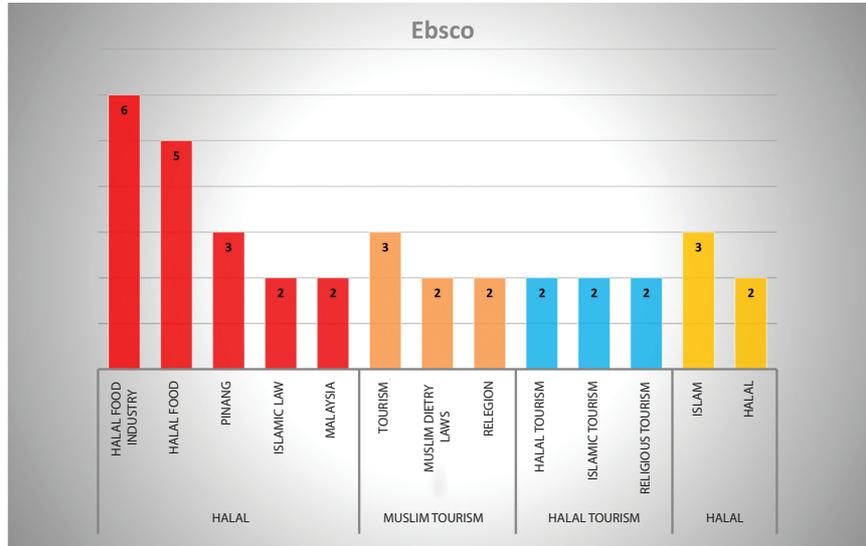


Figure 4: Ebscohost Co-word Occurrence Visualization

Table 5: Ebscohost Co-word Occurrence Data Statistics



CONCLUSION

Halal tourism concept first appeared in 1997 research written by Mohsin and Ryan. The concept of Muslim friendly tourist attraction visiting Australia from Malaysia and Indonesia was studied in Mohsin and Ryan (1997). The paper was a pilot study in identifying the attitudes of Malaysian and Indonesian governments’ representative and senior business executives to Australia as a potential holiday destination. The papers were then consistently produced until the late 2000s, which saw an upward trends in the research of halal tourism. From this research, it was found that Scopus as the indexing agent of research papers is truly serving as the knowledge repository from subject experts and specialist. Scopus search engine also provides reliable and credible result as shown in the findings. Future research should measure the retrieval, precision and recall to verify findings in this research.

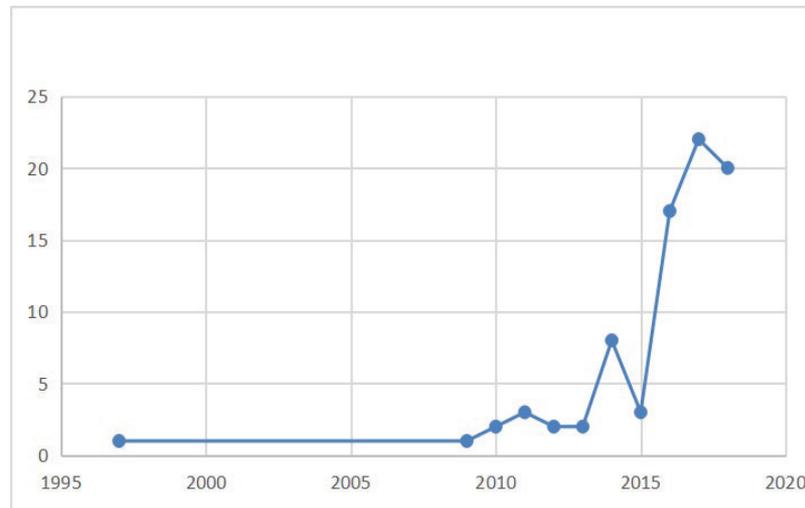


Figure 5: Halal Tourism Paper Production 1997 to 2018

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REFERENCES

- Abdullah, R. (2014). Halal Knowledge Grid Model for Promoting Knowledge Sharing Among Their Community of Practice. *2nd International Conference on Emerging Trends in Engineering and Technology (ICETET'2014)*, 30–31 May(2), 4.
- Carboni, M., Perelli, C., & Sistu, G. (2014). Is Islamic Tourism a Viable Option for Tunisian Tourism? Insights from Djerba. *Tourism Management Perspectives*, 11, 1–9. <https://doi.org/10.1016/j.tmp.2014.02.002>

- Creswell, J.W. (2014). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (4th ed). Thousand Oaks, CA: SAGE Publications.
- Farooqui, N. K., & Noordin, M. F. (2015). Knowledge Exploration: Selected Works on Quran Ontology Development. *Journal of Theoretical and Applied Information Technology*, 72(3), 385–393.
- Hanum, H. M., Bakar, Z. A., Rahman, N. A., Rosli, M. M., & Musa, N. (2014). Using Topic Analysis for Querying Halal Information on Malay Documents. *Procedia - Social and Behavioral Sciences*, 121(April), 214–222. <https://doi.org/10.1016/j.sbspro.2014.01.1122>
- Iqbal, R., Mustapha, A., & Yusoff, Z. M. (2013). An Experience of Developing Quran Ontology with Contextual Information Support. *Multicultural Education and Technology Journal*, 7(4), 333–343. <https://doi.org/10.1108/METJ-03-2013-0009>
- Jafari, J., & Scott, N. (2014). Muslim World and its Tourisms. *Annals of Tourism Research*, 44(1), 1–19. <https://doi.org/10.1016/j.annals.2013.08.011>
- Kamali, M.H. (1989). *Principles of Islamic Jurisprudence*. Petaling Jaya: Pelanduk Publications.
- Kasim, S., Omar, N. A., Fudzee, M. F. M., Ramli, A. A., Salamat, M. A., & Mahdin, H. (2017). The Development of Ontology from Multiple Databases. *IOP Conference Series: Materials Science and Engineering*, 226(1). <https://doi.org/10.1088/1757-899X/226/1/012108>
- Lancaster, F. W. (2003). *Indexing and Abstracting in Theory and Practice*. Champaign, IL: University of Illinois.
- Mohsin, A., & Ryan, C. (1997). Business Visitors to the Northern Territory Expo. *Tourism Recreation Research*, 22(2), 67–69. <https://doi.org/10.1080/02508281.1997.11014807>

- Omar, N. A., Kasim, S., & Hashim, R. (2013). A Process for Building Ontology E numbers from Various Databases. *Journal of Industrial and Intelligent Information*, 1(3), 179–184. <https://doi.org/10.12720/jiii.1.3.179-184>
- Qaraḍāwī, Y. (2007). *The Lawful and the Prohibited in Islam: (Al-Halāl wal Harām fil Islām)*. New Delhi: Kitab Bhavan.
- Tamine-lechani, L., Boughanem, M., & Daoud, M. (2010). Evaluation of Contextual Information Retrieval Effectiveness: Overview of Issues and Research. *Knowledge and Information Systems*, 24(1), 1-34. doi:<http://dx.doi.org/10.1007/s10115-009-0231-1>
- Tieman, M. (2015). Halal Clusters. *Journal of Islamic Marketing*, 6(1), 2–21. <https://doi.org/10.1108/JIMA-05-2014-0034>
- Tieman, M. (2016). Halal Diets. *Islam and Civilisational Renewal Journal*, 7(1), 128-132.
- Yauri, A. R., Kadir, R. A., Azman, A., & Murad, M. A. A. (2013). Quranic verse extraction base on concepts using OWL-DL ontology. *Research Journal of Applied Sciences, Engineering and Technology*, 6(23), 4492–4498.
- Zamani-Farahani, H., & Henderson, J. C. (2010). Islamic Tourism and Managing Tourism Development in Islamic Societies: The Cases of Iran and Saudi Arabia. *International Journal of Tourism Research*, 12(1), 79–89. <https://doi.org/10.1002/jtr.741>