

Bio-Bibliometric Portrait of Mauro Guerrini: An Italian Specialist in Knowledge Organization and Cataloguing

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Abstract: The main objective of the current review was to evaluate the research performance of Mauro Guerrini during his profession from 2007 to 2021. Professor Mauro Guerrini is one of the most influential Italian researchers in the field of knowledge organization (i.e., cataloguing and classification). This research seeks to present his scientific image from the perspective of international bibliometric and scientometric indicators. In order to draw the scientometric portrait of Professor Guerrini, his papers indexed in the Web of Science (WoS) were examined using the VOSviewer and Bibliometrix R-Package softwares. Over the years, Professor Guerrini has focused on topics such as knowledge or-

ganization and cataloguing. He has sought to apply his knowledge to the development of Italian libraries. Although, all scientific collaborations of Professor Guerrini have been done with Italian researchers, most of them have been published in the journal J LIS.it. On the other hand, Carlo Bianchini has been one of his main collaborators during these years. He also published most of his scientific findings under the name of the University of Florence.

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1.0 Introduction

Scientometrics is the field of study that uses mathematical methods to measure, monitor and analyze science, technology, and innovation (STI) in terms of the quantity and quality. Hess (1997) defined scientometrics as the “quantitative study of science, communication in science, and science policy” (75). Researchers and scientists are the most important pillars of science, technology and innovation. Evaluating individual researchers and scientists’ performance and measuring the impact of their research is the main objective of bio-bibliometric analysis. This type of study, in which a researcher or a scientist is scientifically and methodically assessed using bibliometric techniques, is called “scientometric portrait”, “biographical bibliometrics” or “bio-bibliometrics” (Koley & Sen 2017; Gholampour & Noruzi 2021; Elahi, Gholampour & Dickson 2021). The current bio-bibliometric research evaluates and presents the research performance of Mauro Guerrini.

Professor Mauro Guerrini (b. Vinci, 22 August 1953) is an Italian librarian and scholar. He worked as the Director of the Leonardian Library of Vinci from 1981 to 1992. In 1992, he moved to teach first at the University of Pavia, then at the University of Udine, and finally at the University of Rome La Sapienza (Bianchini and Sardo eds 2021, 22-23). Lastly from 2001 until today, he works as a full professor of Library and Information Science at the University of Florence. He was the President of the Italian Library Association (AIB) from 2005 to 2011, and from 2007 to 2009 the President of the IFLA 2009 National Committee which brought the IFLA Congress back to Italy after 45 years. He is also the coordinator of the two-year masters degree in inventory and cataloguing (archival, library and codicology) of the University of Florence since 2002.

In 2009, he founded J LIS.it (*Italian Journal of Library, Archives, and Information Science*), and serves as the Editor in Chief. “J LIS.it” is an academic, cross-disciplinary, peer-reviewed, and open-access journal, aiming to value innovative international research published by the University of Florence. He is an editorial member of the scientific committee of several Italian and foreign journals (*Accademie e Biblioteche d’Italia*, *AIB Studi*, *Anales de Documentation*, *Biblioteche Oggi*, *Biblioteche Oggi Trends*, *Bibliothecae.it*, *Cataloguing and Classification Quarterly*, and *Achademia Leonardi Vinci*); as well as the director of some editorial series, formerly in the AIB National Commission on cataloguing issues from 1985 to 1987. Professor Guerrini’s brief bibliometric overview is shown in Table 1 in the three citation indexes of Google Scholar, Scopus and Web of Science.

1.1 Research objectives

The main objective of the current review was to evaluate the research performance of Mauro Guerrini during his profession from 2007 to 2021. Specifically, the goal was to address the following objectives:

- To evaluate the scientific research performance during the more recent part of his scientific career;
- to identify the research fields studied and reviewed by the researcher;
- to identify scientific collaborators and research team(s);
- to identify the partner countries and institutions that have played a more significant role in the development of the researcher’s career;
- to assess the journals in which the researcher published his documents; and
- to determine the most cited documents of the researcher.

GS	Results	Scopus	Results	WoS	Results
Citations	779	Citations	52	Citations	59
H-index	16	H-index	4	H-index	4
i10-index	25	G-index	6	G-index	6

Table 1. A brief bibliometric overview of Professor Guerrini on Google Scholar, Scopus and WoS.

1.2 Literature review

We review here the main literature conducted by bio-bibliometric method. In this regard, *Scientometric Portrait of Professor Wolfgang Glänzel: An Expert in the Field of Scientometrics* (Gholampour & Noruzi 2021), *A Scientometric Portrait of Daniel Funk: Publication Productivity, Collaboration Patterns, and Citation Analysis* (Elahi, Gholampour & Dickson 2021), *The scientific legacy of Judit Bar-Ilan* (Halevi 2020) *Crossing the academic ocean? Judit Bar-Ilan's Oeuvre on Search Engines Studies* (Orduña-Malea 2020), *Commemorating Judit Bar-Ilan from Bibliometric and Altmetric Perspectives* (Haustein & Peters 2020), *Historical Roots of Judit Bar-Ilan's Research: A Cited-References Analysis Using CReXplorer* (Bornmann and Leydesdorff 2020), *The Altmetrics of Henk Moed's publications* (Bar-Ilan & Halevi 2020), and *Bibliometric portrait of B.K Sen: A Librarian, Information Scientist and Scientometrician* (Dutta 2019), *Scientific Contribution of Professor Mahalanobis: A Bio-Bibliometric Study* (Mondal et al. 2018), *Garfield Number: On Some Characteristics Of Eugene Garfield's First And Second Order Co-Authorship Networks* (Glänzel and Abdulhayoğlu 2018), furthermore, *Judit Bar-Ilan: Information Scientist, Computer Scientist, Scientometrician* (Thelwall 2017), *Bibliometric Portrait of The Astronomer Jan Hendrik Oort* (Koley and Sen 2017), *Scientometric Portrait of Biochemist Santiago Grisolia: Publication Productivity, Collaboration Patterns, and Citation Analysis* (González-Alcaide 2014), *Research Contribution of Prof Atul H. Chokshi to Materials Science: A Scientometric Study* (Parvatham et al. 2013), *Scientometric Portrait of Nayana Nanda Borthakur: a Biometeorologist* (Hazarika, Sarma, and Sen 2010), *Communication and Collaborative Research Pattern of Sivraj Ramaseshan: A Scientometric Portrait* (Sangam, Savanur, and Manjunath 2007), *Research Productivity of Tibor Braun: An Analytical Chemist-cum-Scientometrician* (Kalyane and Sen 2003), *Khoo Kay Kim, Professor of Malaysian History: A Biobibliometric Study* (Tiew 1999), and *Scientometric Portrait of Nobel Laureate Dorothy Crowfoot Hodgkin* (Kademani, Kalyane, and Jange 1999) have been included in the mostly related reviewed literature.

2.0 Materials and methods

The present research is a scientometric portrait in which bibliometric indicators and techniques have been used. The research population includes all the documents published by Professor Mauro Guerrini in the journals indexed by the Web of Science (WoS) citation database from 2007 to 2021. The year 2007 was chosen as the research time basis because Professor Guerrini published his first work in the journals indexed by this index. The research process includes the following steps. First, an *author* search was conducted to collect the data in the advanced search query builder of WoS:

$$AU=(\text{"Guerrini Mauro"})$$

It was shown that all Guerrini's documents were in Emerging Sources Citation Index (ESCI) and Book Citation Index - Social Sciences & Humanities (BKCI-SSH). Therefore, these two indexes became the basis of the search. The above-mentioned search strategy resulted in the retrieval of 34 documents. The search was conducted on March 25, 2022. It is worth noting that his papers which may have been published and indexed elsewhere, were not included in the current study. In fact, Mauro Guerrini's full bibliography from 1973 to 2020 was published in 2021 and counted 656 works (Manzoni 2021). Second, all documents in Plain txt format were extracted from this database and analyzed using VOSviewer and Bibliometrix R package softwares (www.bibliometrix.org).

3.0 Results and discussion

Table 2 summarizes the bibliometric data of Professor Mauro Guerrini. He has published 34 documents in the WoS citation database, including 22 articles, 7 editorial materials, 3 book reviews, and 1 article; book chapter and bibliography, with an average citation of 1.735 for each of his documents. It is worth noting that 13 of his articles were published as a single author, and other documents were published as a group. On the other hand, the number of documents per author is 2.83, and the number of authors per document is 0.353.

Figure 1 indicates Professor Guerrini's publishing status in journals covered by the Web of Science database. In general, except in 2008, 2011, and 2017, Guerrini has been able to publish at least one article in these journals in all years. Also, the highest number of documents published by him was in 2018 (6 documents). Therefore, it can be seen from Figure 1 that Professor Mauro Guerrini has published about 2 to 3 documents annually.

Figure 2 indicates the number of citations per year received by Professor Mauro Guerrini. The highest average number of citations to Professor Guerrini's documents were received in the years 2013 and 2016 with 0.6 under review. Overall, Mauro's articles received 59 citations. The results show that this Italian researcher had the most scientific impact in 2009 with 20 citations, in 2002 with 16 citations, and in 2013 with 10 citations. Professor Guerrini also received six citations in 2015, three citations in 2018, and one citation in 2007, 2010 and 2012.

Mauro Guerrini published his publications in six journals and one book series, as shown in Table 3. Among the journals that published the most articles from Professor Guerrini was *JLIS.it* (www.jlis.it), which alone published 15 articles by him. Articles in *Cataloging and Classification Quarterly* and *JLIS.it* also received high citations. Accord-

Main Information About Data	Results
Average Years From Publication	6.82
Average Citations Per Documents	1.735
Average Citations Per Year Per Doc	0.1893
Document Types	
Article	22
Article; Book Chapter	1
Bibliography	1
Book Review	3
Editorial Material	7
Authors	
Authors	11
Author Appearances	55
Authors of Single-Authored Documents	1
Authors of Multi-Authored Documents	11
Authors Collaboration	
Single-Authored Documents	13
Documents Per Author	2.83
Authors Per Document	0.353
Co-Authors Per Documents	1.62
Collaboration Index	0.524

Table 2. Summary of the main information of collected bibliometric data.

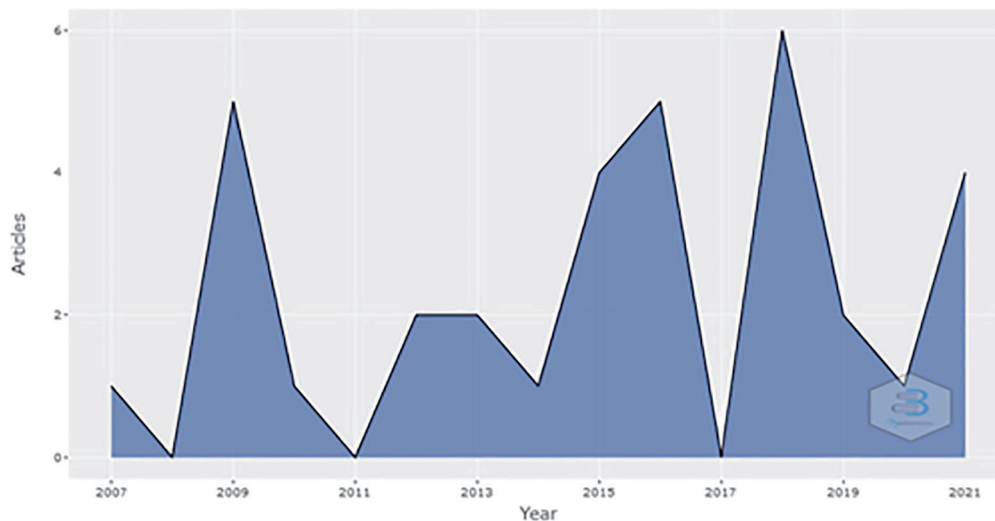


Figure 1. Number of documents published per year by Mauro Guerrini.

ing to Table 3, the AIB Studi (<https://aibstudi.aib.it>) and Journals of *Cataloging and Classification Quarterly* were the core journals in which this Italian researcher published most of his findings.

Figure 3 shows the trend of Professor Mauro Guerrini's publications in journals over time. The results indicate that the number of publications of this researcher in the journal *Cataloging and Classification Quarterly* has been associated

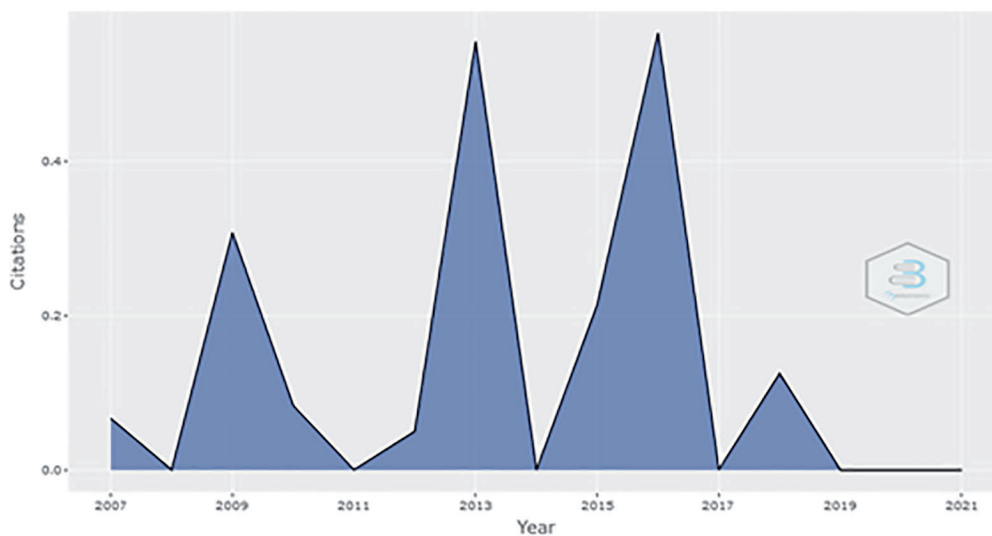


Figure 2. Number of citations per year received by Mauro Guerrini.

Journals and book series	Publication	Citation	Q	Country	Publisher	Bradford Law
JLIS.it	15	20	2	Italy	University of Florence	Zone 1
AIB Studi	7	1	3	Italy	Italian Library Association	Zone 2
Cataloging and Classification Quarterly	7	35	3	U.S	Taylor and Francis	Zone 2
IFLA Journal	2	2	2	UK	SAGE Publications	Zone 3
Anales de Documentacion	1	0	4	Spain	University of Murcia	Zone 3
BiblioFilia	1	1	-	-	-	Zone 3
Libraries Serving Dialogue	1	0	-	-	-	Zone 3

Table 3. The journals that published the most articles by the Prof Mauro Guerrini.

with ups and downs. In general, the results show that this Italian researcher did not publish any article in this journal from 2010 to 2014, but he re-considered this journal in 2015, and in 2018 he continued to publish research in this journal. In other words, Figure 3 reveals that in recent years this researcher has paid more attention to the two Italian journals *JLIS.it* and *AIB Studi*.

Table 4 shows the most cited articles by Professor Mauro Guerrini. As shown in the table, the article “From Bibliographic Models to Cataloging Rules: Remarks on FRBR, ICP, ISBD, and RDA and the Relationships Between Them” was the most cited article of this researcher and his colleague Carlo Bianchini, published in *Cataloging and Classification Quarterly*. Based on the results of Table 4, we can identify two articles with 10 citations, two articles with 4 citations. Moreover, out of 59 citations obtained by this researcher 35 citations were retrieved from articles published in *Cataloging and Classification Quarterly*.

Table 5 shows the most active research collaborators of Professor Guerrini. In general, this Italian researcher has most scientific collaborations with Carlo Bianchini (<https://orcid.org/0000-0002-6635-6371>) who has been one of his main research collaborators during these years. Professor Guerrini has collaborated in nine documents with Carlo Bianchini and two with Stefano Gambari (<https://orcid.org/0000-0002-2910-9654>), and Tiziana Possemato (<https://orcid.org/0000-0002-7184-4070>). Guerrini has received 26 citations from articles published by Bianchini and 20 citations from articles published by Possemato.

Figure 4 illustrates the scientific collaboration network of Professor Mauro Guerrini. Nodes represent researchers and links represent the multiplicity of collaborations (Noruzi et al. 2022; Gholampour, Gholampour and Noruzi 2022). This Italian researcher had scientific collaborations with eleven researchers during his scientific career. The scientific collaboration network shows that he had the most research collaborations with Bianchini, Gambari and Possemato. This is deter-

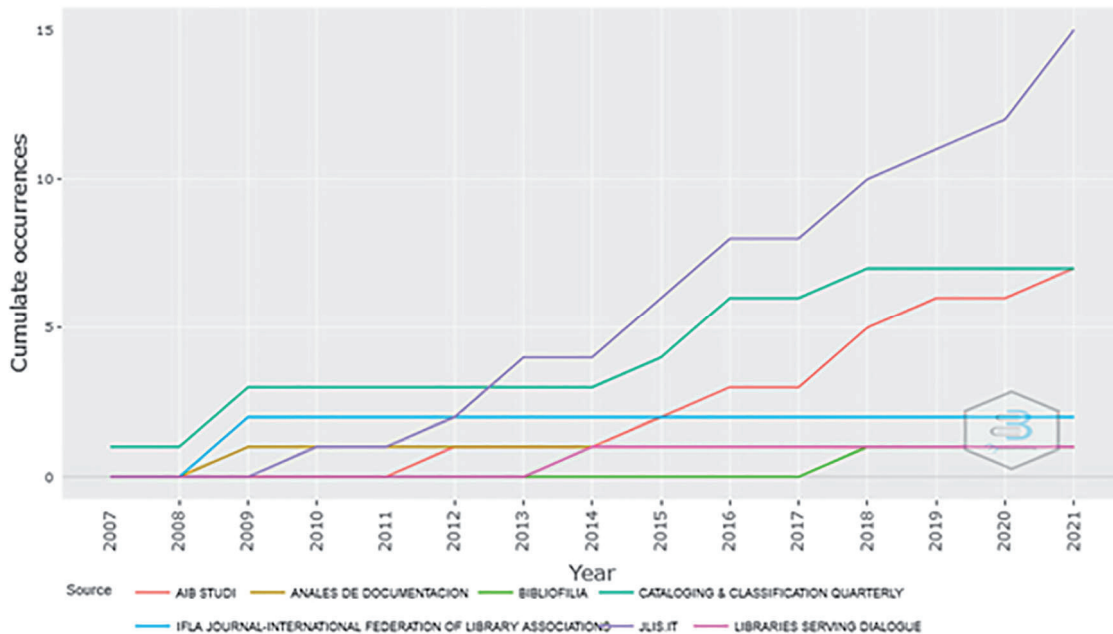


Figure 3. The trend of publishing Prof Mauro Guerrini articles in journals over a period of years.

Rank	Document title	Authors	Year	Journals	Cited by
1	From Bibliographic Models to Cataloging Rules: Remarks on FRBR, ICP, ISBD, and RDA and the Relationships Between Them	Bianchini, Carlo	2009	<i>Cataloging and Classification Quarterly</i>	14
2	Linked data: a new alphabet for the semantic web	Guerrini, Mauro	2013	<i>JLIS.it</i>	10
3	From record management to data management: RDA and new application models BIBFRAME, RIMMF, and OliSuite/WeCat	Guerrini, Mauro	2016	<i>Cataloging and Classification Quarterly</i>	10
4	In praise of the un-finished: The IFLA statement of international cataloguing principles (2009)	Guerrini, Mauro	2009	<i>Cataloging and Classification Quarterly</i>	4
5	RDA: a content standard to ensure the quality of data	Bianchini, Carlo	2016	<i>JLIS.it</i>	4

Table 4. List of articles cited by Professor Mauro Guerrini.

mined from the thickness of the edges between the researchers. On the other hand, his presence in the center of the graph indicates his leadership and guidance.

Figure 5 shows the publication timeline of Professor Mauro Guerrini and his collaborators. In total, he has published a total of 34 documents in collaboration with eleven researchers in the WoS citation index. The red lines indicate the beginning year and the end year of the scientific activity, and the bubbles indicate the number of publications resulting from the collaboration (Gholampour et al. 2022). In other words, Professor Guerrini's scientific activity began in 2007 and continued until 2021. He started his scientific activity with Bianchini in 2007 and continued until 2018, which was the peak of the scientific activities of these two

researchers in 2016 with three documents. Professor Guerrini also started another collaboration with Gambari in 2018, and this collaboration continued until 2020.

Figure 6 illustrates the organizational collaboration network created by Professor Mauro Guerrini. He has collaborated scientifically with ten organizations. In other words, many of the scientific documents of this researcher have been published with the organizational affiliation of the University of Florence in Italy. He has the most scientific collaborations with researchers from the University of Pavia and University of Udine, respectively. Hence, these two universities had a more colourful role than other institutes in scientific collaboration with Prof. Guerrini. The presence of these institutions is due to a prominent colleagues such

Authors	Publications	Citations	PY-Start
Carlo Bianchini	9	26	2007
Stefano Gambari	2	2	2018
Tiziana Possemato	2	20	2013
Giovanni Bergamin	1	0	2021
Gianfranco Crupi	1	0	2012
Silvano Danieli	1	0	2014
Giovanna Frigimelica	1	2	2009
Lapo Ghiringhelli	1	0	2018
Antonio Speciale	1	1	2012
Tiziana Stagi	1	0	2016
Maria Enrica Vadala	1	0	2021

Table 5. Research team of Prof Mauro Guerrini.

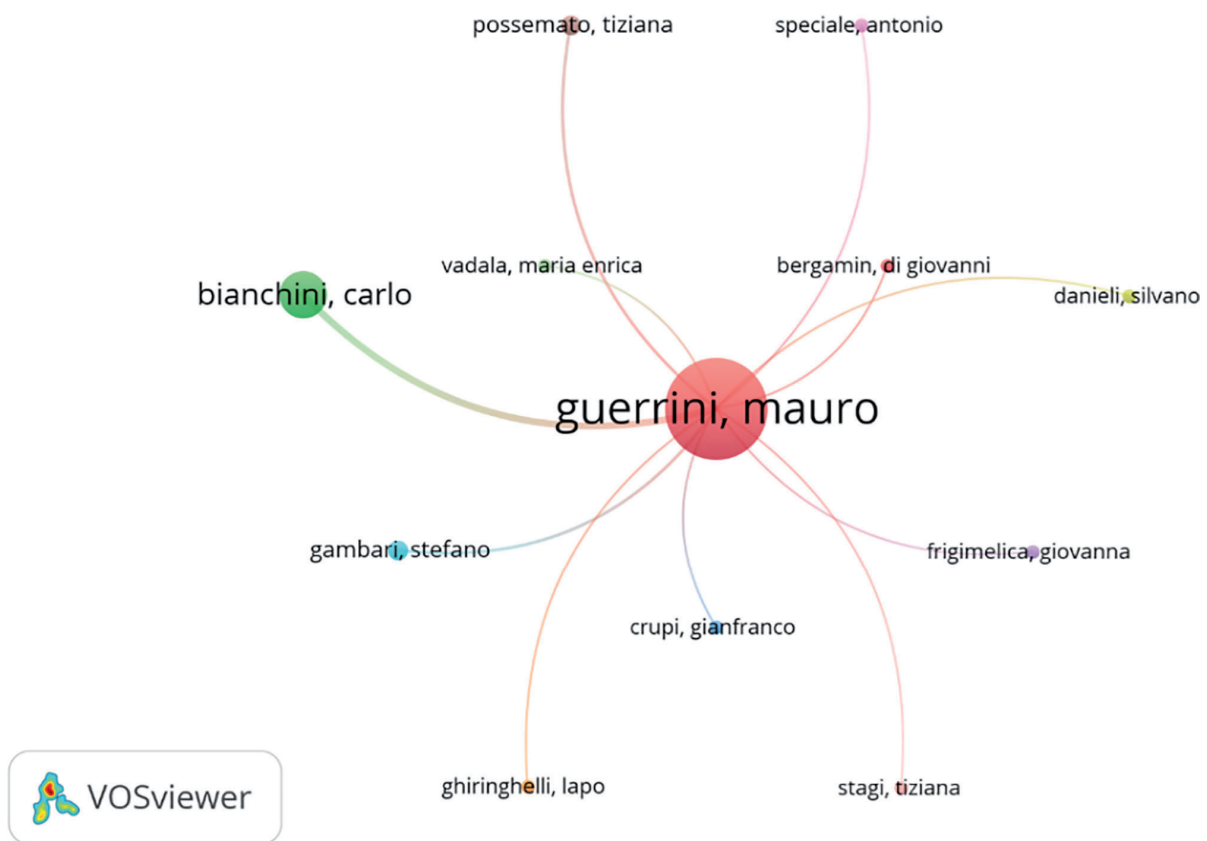


Figure 4. Scientific collaboration network of Prof Mauro Guerrini.

as Carlo Bianchini, who has collaborated with Professor Guerrini at various times due to his scientific affiliation with these institutions.

Figure 7 shows the scientific collaboration network of Professor Guerrini based on a geographical map. The scientific collaboration network analysis indicates that all of his

collaborations have been made with Italian researchers, which shows that this researcher paid special attention to conduct research with Italian authors.

Figure 8 shows the keywords most frequently used in Professor Guerrini's papers indexed in WoS. In general, this network consists of 6 clusters. Cluster 1 with the red focuses

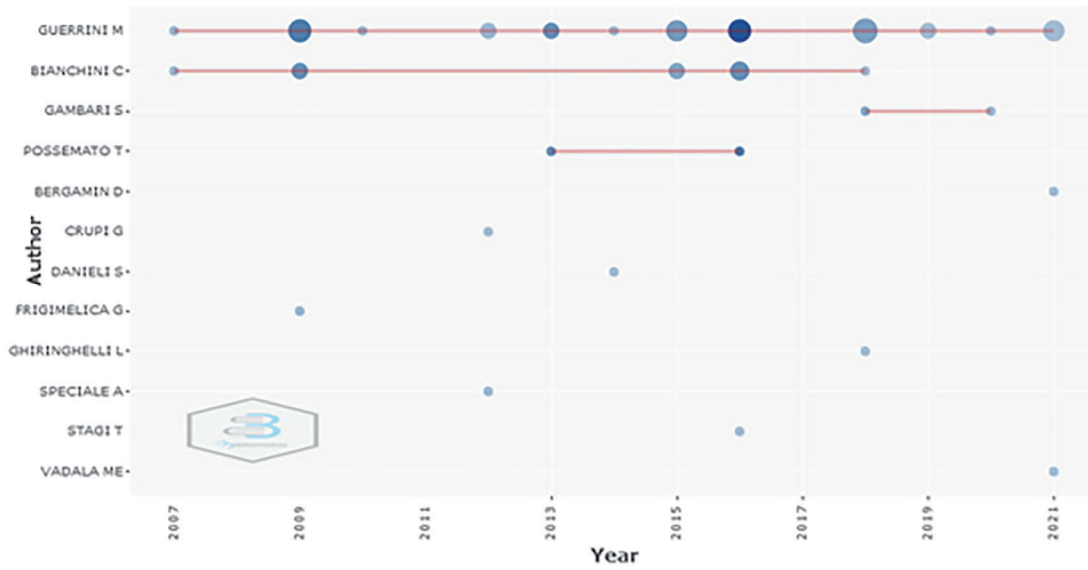


Figure 5. Collaboration network of Prof Guerrini over time.

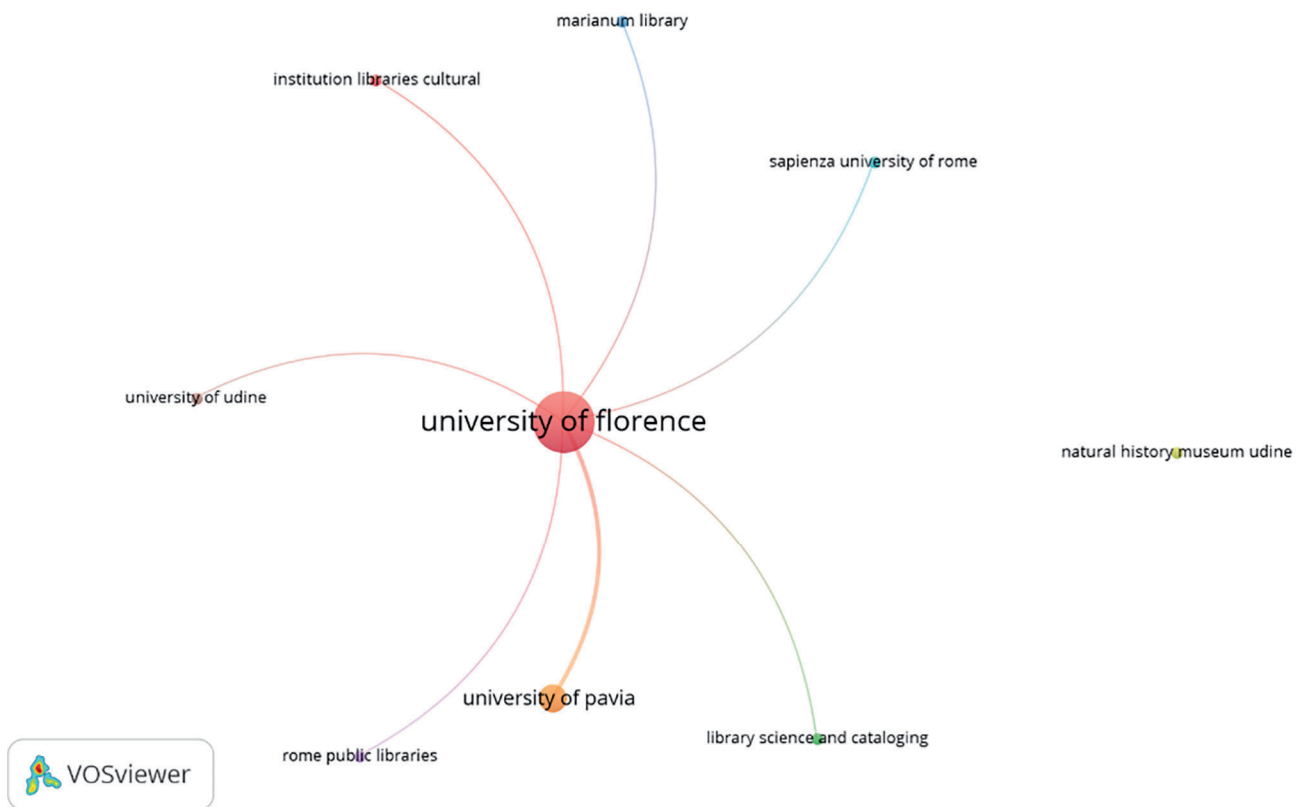


Figure 6. The institutions that have the most scientific collaborations with Mauro Guerrini.

on topics such as Semantic Web, Bibliographic Framework (BIBFRAME), Resource Description Framework (RDF), S. R. Ranganathan, Linked Data, Five Laws of Library Science, and Library Linked Data. Cluster 2 with the blue colour includes Italy, Cataloguing Standards, Bibliographic

Description, Libraries, Librarianship and Library and Information Services. Cluster 3 with the green colour consists of topics such as Resource Description and Access (RDA), Cataloging, Functional Requirements for Bibliographic Records (FRBR), International Center of Photography

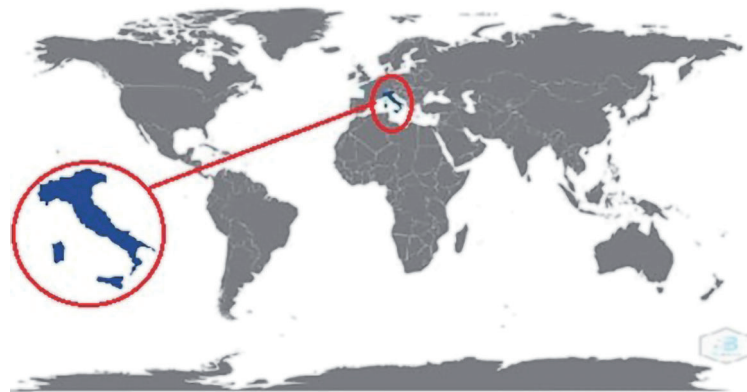


Figure 7. Scientific map of the collaboration of Prof Guerrini with other countries.

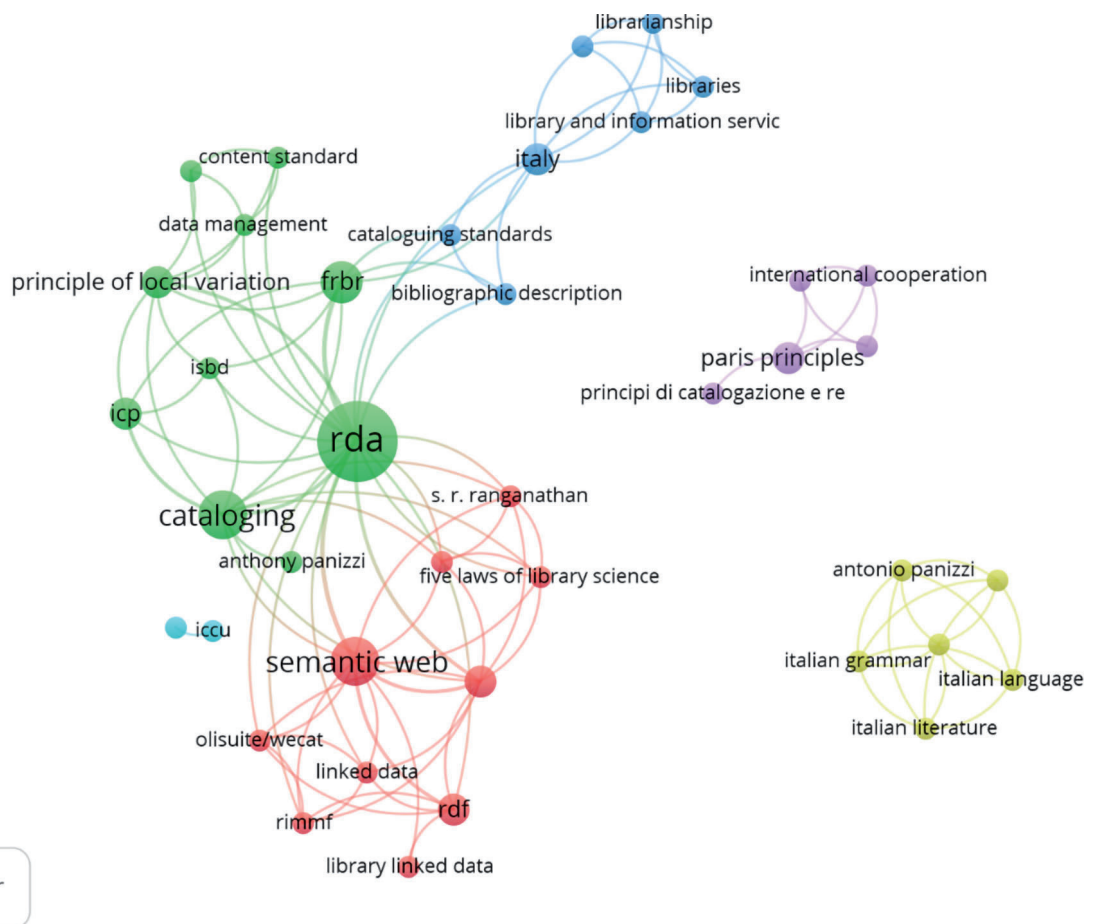


Figure 8. Keywords assigned to articles published by Mauro Guerrini.

(ICP), and International Standard Bibliographic Description (ISBD). Cluster 4 with yellow colour includes topics such as Italian Grammar, Italian Language, Italian Literature, and Antonio Panizzi. Cluster 5 continued in the purple colour with a focus on topics such as Paris Principles, and International Cooperation. Cluster 6 with the tur-

quoise colour contains topics such as Istituto Centrale per il Catalogo Unico (ICCU), and RDA in Italian that had the most occurrence in the research of this professor of the University of Florence, Italy. Therefore, it can be deduced that his expertise has been on knowledge organization and the principles of cataloguing and classification.

One limitation of the current study was that we conducted this bio-bibliometric study based on the WoS citation database, which excludes Italian works. To address this limitation, we conducted an advanced search query with “Mauro Guerrini” on the OPAC of the National Library Service of Italy (OPAC SBN: Catalogo del Servizio Bibliotecario Nazionale, <https://opac.sbn.it>). The search was conducted on March 25, 2022. Table 6 shows that Professor Guerrini contributed in 182 documents. This means that he has published many monographs in Italian. Table 6 indicates that Professor Guerrini has the most scientific collaborations with Carlo Bianchini, Pino Buizza, Stefano Gambari, Diego Maltese, and Alberto Petrucciani. The peak of the scientific activity of this prominent Italian researcher was in the period 1994-2000 with (48) and 2015-2011 with (35) articles. Table 6 also reveals that his research interests are mainly in the fields of cataloguing, library science and libraries services, and archives.

4.0 Conclusion

This study draws a scientometric portrait of Professor Mauro Guerrini's scientific career in the field of knowledge organization based on his papers indexed in the WoS citation database. It can be concluded that his expertise is in knowledge organization and the principles of cataloging

and classification. He has the most scientific collaborations with Italian researchers, most of which have been published in *Cataloging and Classification Quarterly*.

He also published most of his scientific findings under the name of the University of Florence. His scientific collaboration network reveals that he had the most research collaborations with Carlo Bianchini, Stefano Gambari, and Tiziana Possemato, and most of his scientific findings were published during the years 2018, 2009 and 2016.

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Rank	Part A: Authors	Publications
1	Bianchini, Carlo	21
2	Gambari, Stefano	9
3	Buizza, Pino	7
4	Maltese, Diego	6
5	Petrucciani, Alberto	6
6	Sardo, Lucia	6
	Part B: Years	Publications
	1979-1985	9
	1986-1993	33
	1994-2000	48
	2001-2007	34
	2008-2014	23
	2015-2021	35
	All Years	182
	Part C: Subject	Publications
1	Cataloging	23
2	Library Science and Libraries Services	21
3	Archives	4

Table 6. Summary of bibliographic information of the documents published by Mauro Guerrini in the OPAC of the national library service of Italy.

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