Day 2 (May, 7, Wednesday)

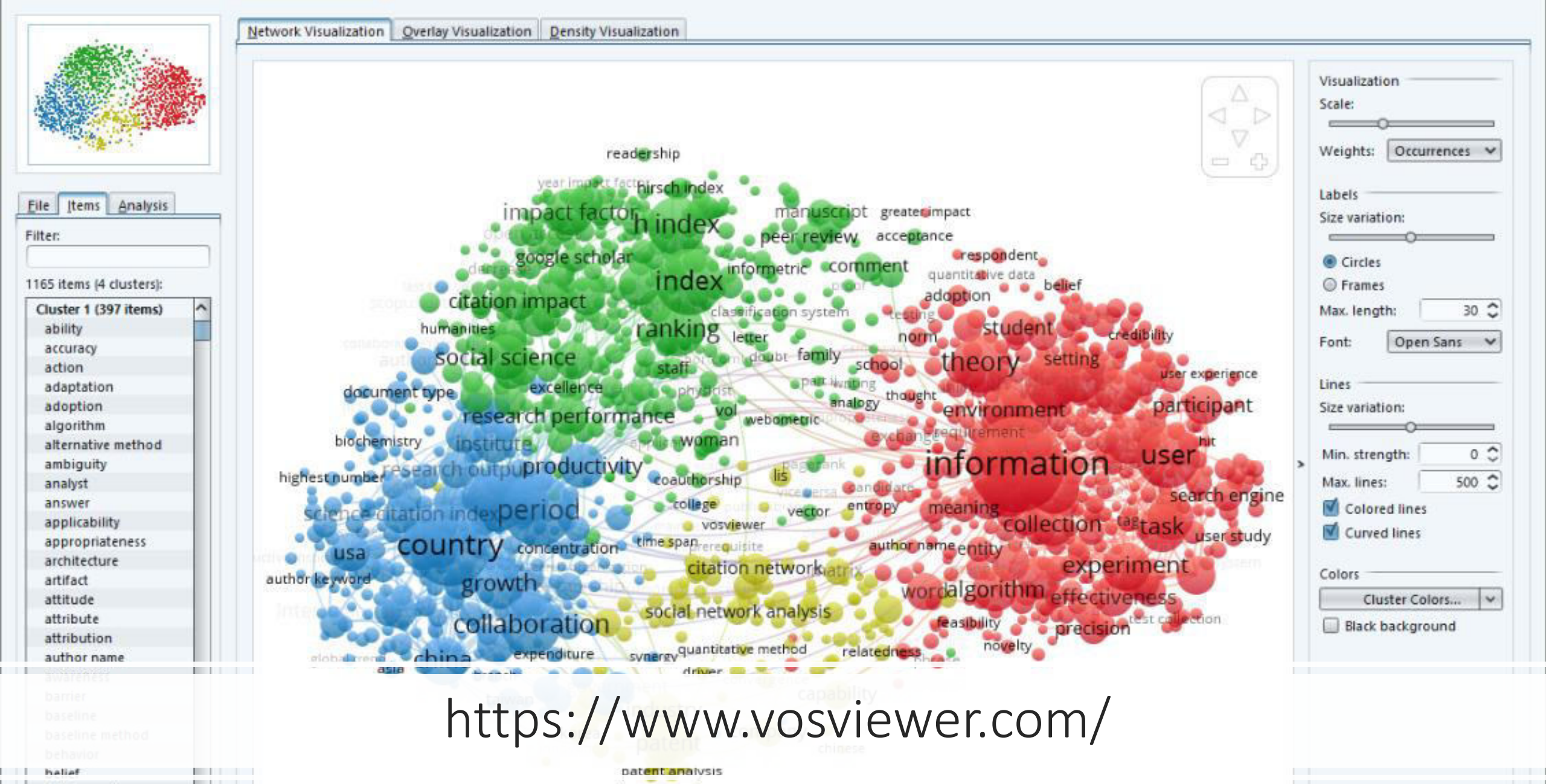
Bibliometric Analysis Meets AI: Mapping Literature Efficiently in the Age of Automation

Introduction to Bibliometric Analysis

- **Definition:** Bibliometric analysis is a quantitative method used to analyze the scientific literature to evaluate the impact of publications, authors, journals, and research institutions.
- **Meaning:** Assessment of scientific developments in a given field.
- Identification of research trends.
- Identify the most influential publications and authors.

Basic bibliometric indicators

1. **Number of citations** – the number of times a publication has been cited by other works.
2. **Keyword co-occurrences** – the number of publications in which specific keywords appeared together
3. **Number of co-citations** – the number of times when two publications have been cited jointly by other works.
4. **Number of shared references** – the number of references shared by two works
5. **Other** (frequency of publishing, publishing journals etc.)



https://www.vosviewer.com/

And a bonus…

15 papers

Bookmarks
10 papers

New Collection

Shared With Me

No Shared Collections

Third paper by Microsoft Research Team, this focuses on MAG schema and Saliency. Seems targets for bibliometrics field. Compare with Wang et.al (2019) which is heavier on Machiine learning aarontay@smu.edu.sg

439
Sinha Wang 2015
An Overview of Microsoft Academic Service (MAS) and Applications
No journal available

Initial paper introducing Microsoft Academic by the Microsoft Research Team aarontay@smu.edu.sg

40
Harzing 2016
Microsoft Academic (Search): a Phoenix arisen from the ashes?
Scientometrics

An early study on the scope of Microsoft Academic aarontay@smu.edu.sg

13
Kousha Thelwall 2018
Can Microsoft Academic help to assess the citation impact of academic books
Journal of Informetrics

46
Wang Rogahn 2019
A Review of Microsoft Academic Services for Science of Science Studies.

Second paper by Microsoft Research team going in depth into the deep learning aspects aarontay@smu.edu.sg

35
Martín-Martín López-Cózar 2020

robustness of university
bioRxiv

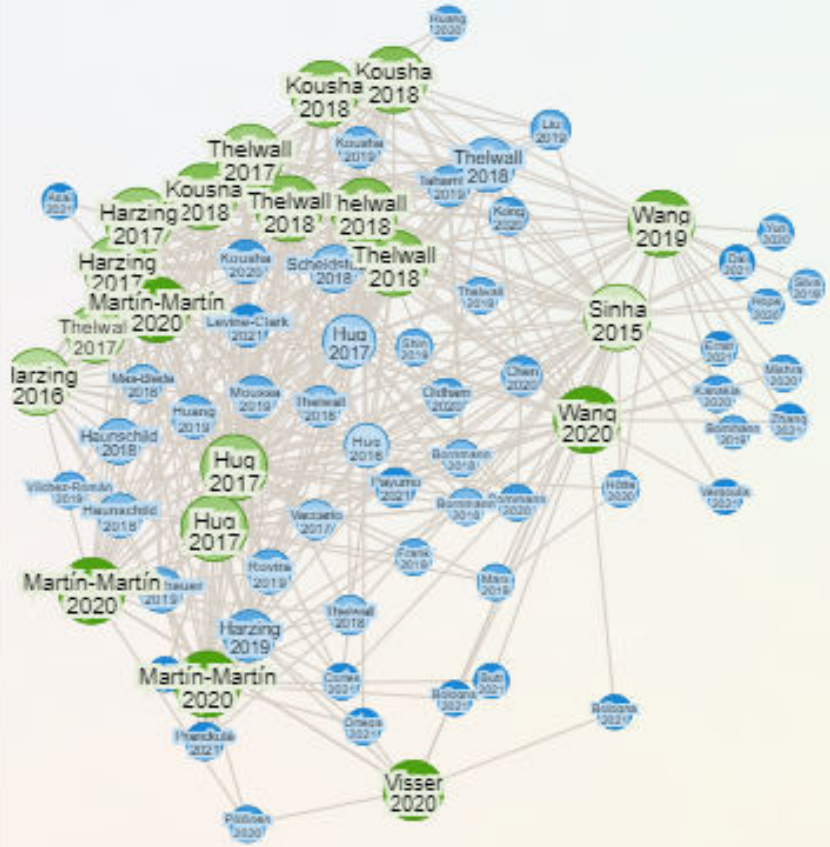
35
Tahamtan Bornmann 2019
What Do Citation Counts Measure? An Updated Review of Studies on Citations in Scientific
arXiv: Digital Libraries

15
Thelwall 2018
Can Microsoft Academic be used for citation analysis of preprint archives? The case of the Social
Scientometrics

2
Chen 2020
A Glimpse of the First Eight Months of the COVID-19 Literature on Microsoft Academic
arXiv: Digital Libraries

2
Scheidsteger Bornmann 2018
The concordance of field-normalized scores based on Web of Science and Microsoft
arXiv: Digital Libraries

19
Haunschild Bornmann 2018
The number of linked references of publications in Microsoft Academic in comparison with the
Scientometrics



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Contact me, if you have any questions!

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