



Entities in SciVal - Topics, Research Areas and Journals

SciVal Advisor Program
Autumn 2020 edition, session 8

26th November 2020
Kate Patyrak, Bartłomiej Wieckowski





Q&A



Welcome 🍌

Feel free to ask the host and panelists questions

Type your question here...



Zoom Group Chat

To: All panelists and attendees
Type message here ...



Q&A



Chat



Raise Hand

ON AIR



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Today's agenda

- Topics – how we can explore it?
- Research Areas – I want to analyze my own!
- Journals – how to analyze Scopus' sources in SciVal
- Summary and Q&A
- Next steps – how to get the certificate?

We would like to ...

...help Researchers

- **Identify topics with high momentum** and most likely **high funding success rates**.
- **Showcase** that they are active in topics with high momentum.
- **Find the best potential co-authors** in those topics.
- **Identify emerging & related topics** with high momentum they should be aware of.



...help Research managers

- Identify pockets of well funded research topics in research portfolio.
- Find the **top performers** and **rising stars** in those areas for recruitment, tenure and collaboration.
- **Showcase** that their institution is active in topics with high momentum
- **Identify which topics other universities** are active in that have high momentum.



Solution

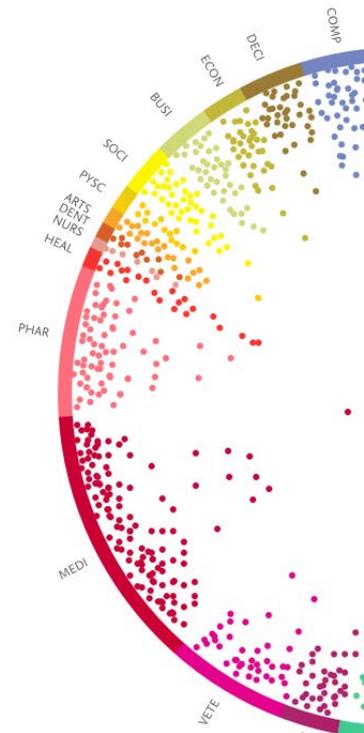
We have identified ~97.000 global research topics by clustering all of Scopus and ranked them by **Prominence**.

Prominence is a new indicator that shows the **current momentum** of a topic by looking at **very recent** citations, views and **CiteScore** values.

Prominence = momentum (not the same as importance!).

Prominence predicts funding – helps researchers and research managers identify topics in which funding will increase.

Going **way beyond** what the competition can do...

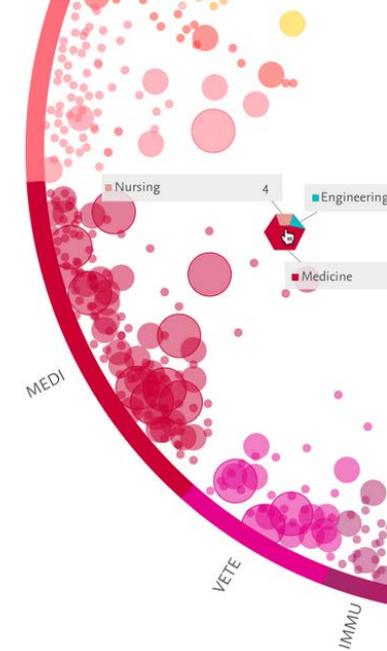


A groundbreaking concept

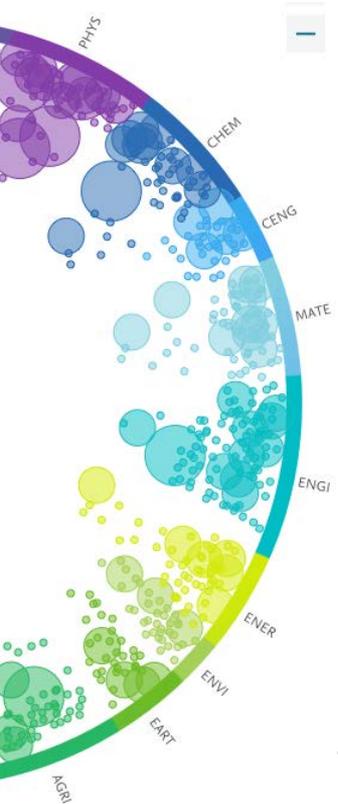
Researchers in topics with high prominence receive more funding on average – We have evidence that researchers in prominent topics receive more funding (per researcher) than their peers in other topics.

Help improve grant applications – we can truly help researchers to increase their grant success rate by focusing on high prominence topics.

Topics resonate with researchers – researchers recognize them intuitively and agree with the level of granularity.



First of its kind



The first truly global detailed research portfolio analysis – this has never been done before – we use all of Scopus to form topics.

Who's leading the way – we can identify emergent topics with high momentum to understand who is currently leading the way.

What's related – We can tell you how the topics are related to your research portfolio.

A better reflection of reality – topics are an excellent reflection of reality since they are based on citation patterns and not journal categories and therefore truly multidisciplinary.

“Topics” and their characteristics

A topic is a collection of documents with a common intellectual interest

Topics can be large or small, new or old, growing or declining

Topics are dynamic and can evolve

New topics can be born

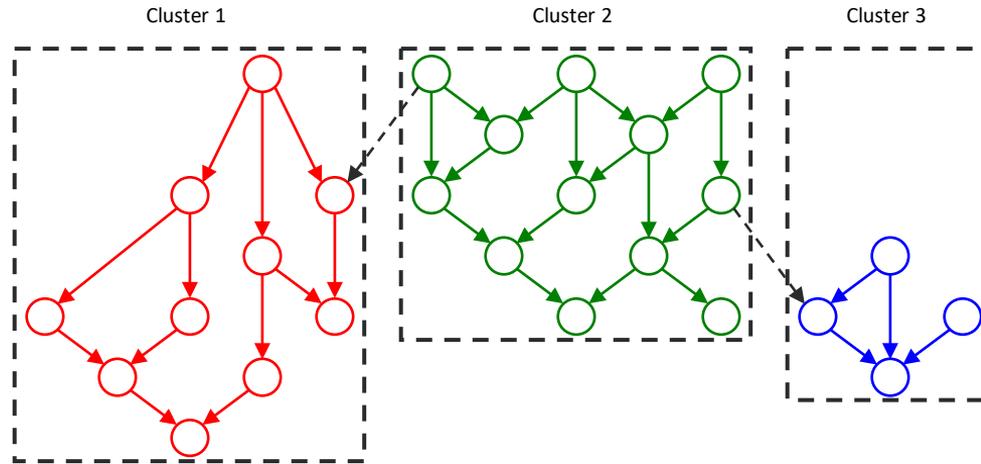
Many topics are inherently multidisciplinary

Old topics may be dormant, but still exist

Researchers have mobility and can contribute to multiple topics

How are “Topics” identified

All Scopus publications are clustered into topics using citation links
~35 million publications (1996-present) in ~100,000 topics



Why so many?

Fine-grained topics define the problem-level structure of science

Topics really are different from each other

1. Researchers confirm this
2. Funding data confirm this

Dynamics are far easier to discern with fine-grained topics than coarse-grained fields

document can belong to only one **Topic**

New indicator: Topic prominence

Prominence combines 3 metrics to indicate the momentum of the topic

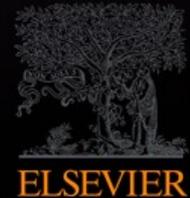
1. **Citation Count** in year n to papers published in n and n-1
2. Scopus **Views Count** in year n to papers published in n and n-1
3. Average **CiteScore** for year n

Why call it “Prominence”

1. Prominence \neq Importance (Topics can be important but not prominent)
2. Prominence \sim Visibility

Q&A session

Empowering
Knowledge™



Next steps to be certified advisor

6. What is the Field-Weighted Citation Impact value in the period 2014-2018 for Riga Technical University in Latvia? *

(1 punkt)

- 1.14
- 1.12
- 1.17
- 1.29

7. Which author from Riga Stradins University in Latvia has the highest value of h-index in the period 2014-2018 in the Medical Sciences (OECD classification)? *

(1 punkt)

- Kužinskas, Vaidutis
- Iwarsson, Susanne
- Lejnicks, Aivars
- Dambrova, Majja



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SciVal Advisors

This confirms that



Riga Stradins University

Has been appointed an official SciVal Advisor for Latvia.

SciVal Advisors are 'power users' of SciVal as well as research evaluation enthusiasts and experts. Advisors can help their peers in the research community by sharing knowledge on how SciVal and the analyses available within the solution can support their work. Appointment as a SciVal Advisor requires the completion of online training followed by the passing of an online test.

Links to all sessions

1. SciVal intro and data sources
2. Visualize research performance - the Overview module
3. Benchmark your progress!
4. Reports - how to use templates?
5. Develop collaborative partnerships and analyze research trends
6. Entities in SciVal - Institutions and Countries
7. Entities in SciVal - Researchers and Publication Sets
8. Entities in SciVal - Topics, Research Areas and Journals



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Thank you

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