

Innovation in der akademischen Suche

Die Kollaboration von BASE und Open Knowledge Maps

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Erstellt mit Maxi Schramm

BiblioCon 2024

Hamburg, 6. Juni 2024



**OPEN
KNOWLEDGE
MAPS**



**UNIVERSITÄT
BIELEFELD**



Universitätsbibliothek



SARA GIRONI CARNEVALE

Scientists are drowning in COVID-19 papers. Can new tools keep them afloat?

Who we are

Bielefeld Academic Search Engine (BASE)

developed and maintained by Bielefeld UL since 2004

dedicated to **improving the visibility of scientific publications on institutional repositories**

for researchers and information infrastructures



Who we are

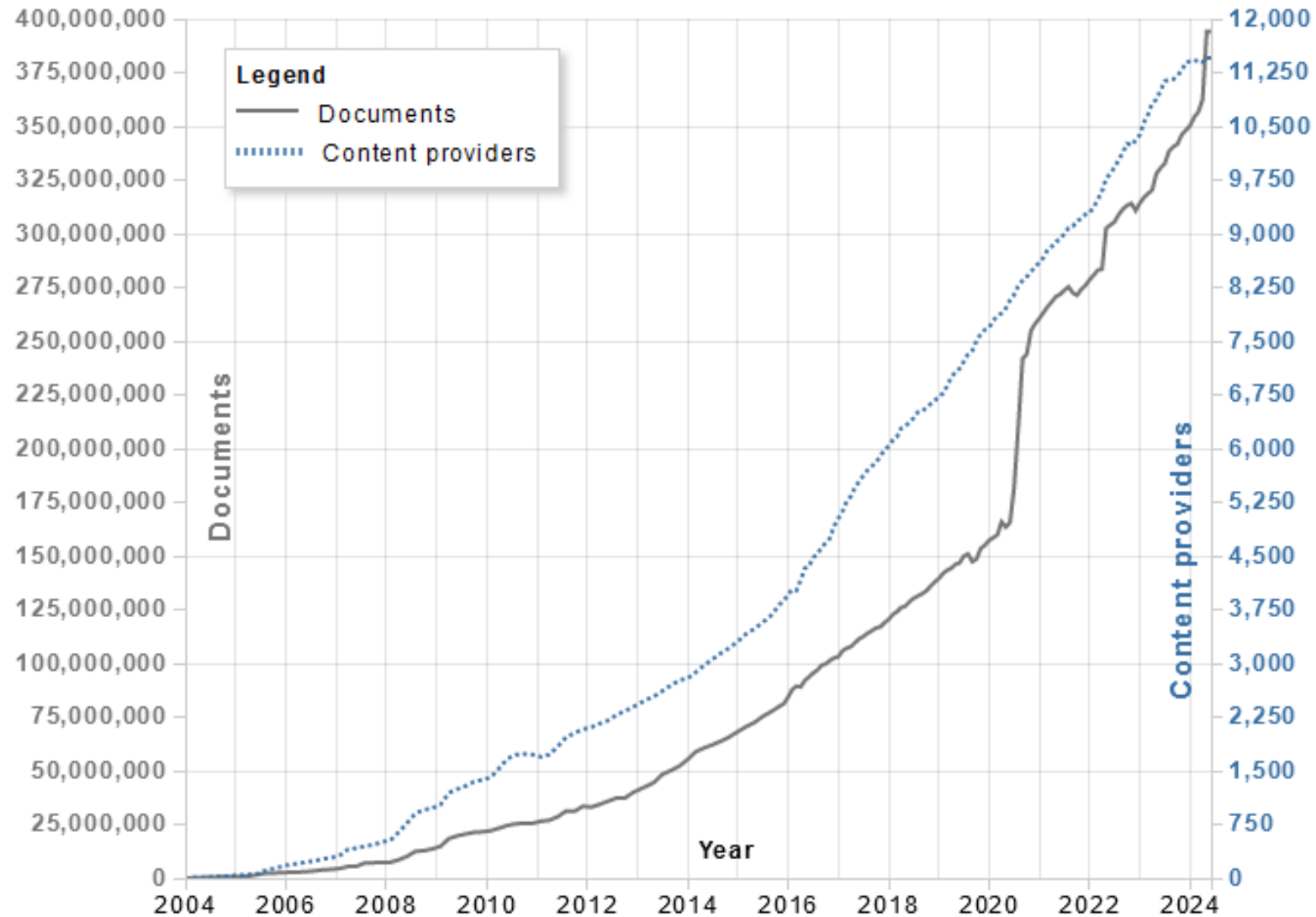
BASE aggregates, normalises, enriches and indexes metadata on publications

BASE provides APIs and dumps for reusing the data

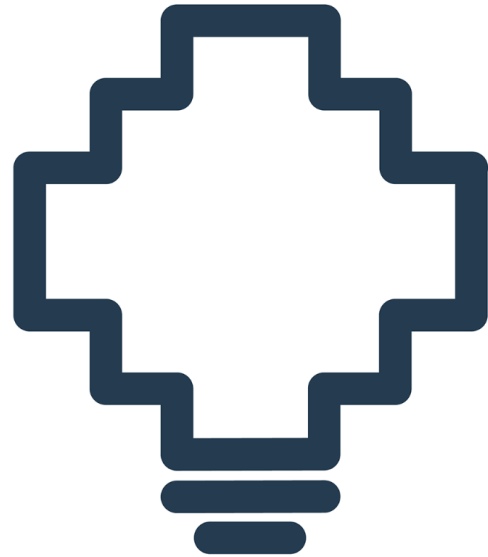
More current information in: Biela, J., Stalla, M., Hohmann, L., & Holzer, A. C. (2024). Kartierung und Beschreibung der Open-Access-Dienste in Deutschland. Zenodo.

<https://doi.org/10.5281/zenodo.11121906>

The story so far



Identify relevant concepts

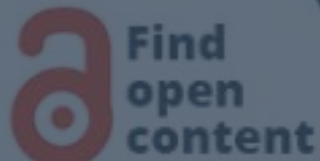


OPEN
KNOWLEDGE MAPS

Irrelevant to your research



@OK_Maps



Who we are

Open Knowledge Maps

is **a charitable non-profit organization**

dedicated to dramatically **improving the visibility of scientific knowledge**

for science and society alike



OPEN
KNOWLEDGE
MAPS

Overview of heart diseases





Map a research topic

Get an overview - Find documents - Identify relevant concepts



PubMed (life sciences)

BASE (all disciplines)

Refine your search ▾

digital education

GO

Try out: [digital education](#) [climate change AND impact](#)

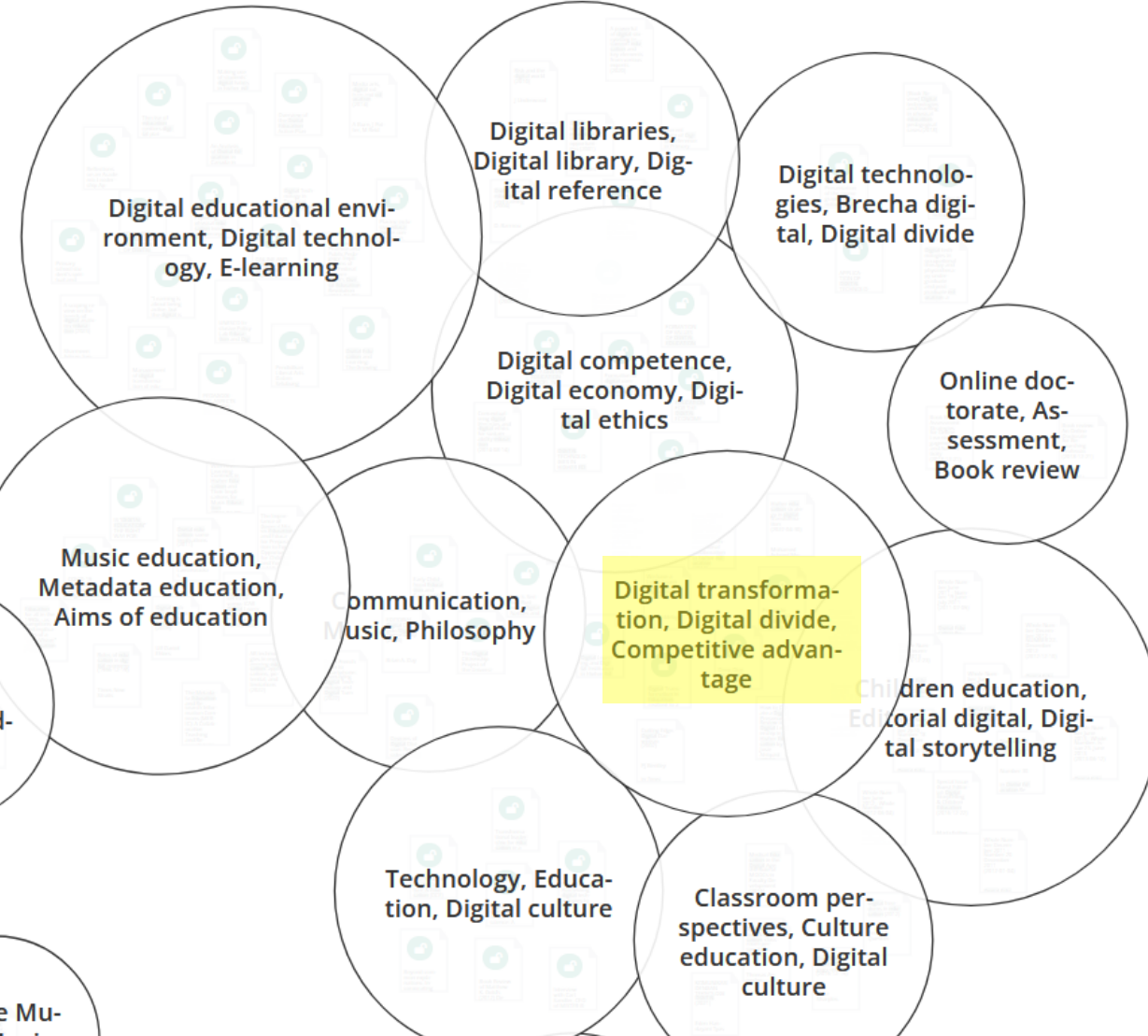


<https://openknowledgemaps.org>



Knowledge Map of digital education

100 most relevant documents Data source: BASE Until 16 Jun 2023 Document types All lang Data quality More information



Overview (100 documents)

Search within visualization

show: Any

sort by: Relevance

open access

journal/newspaper article

Overview of the Digital Education Action Plan 2021-2027 (2021)

National Forum For The Enhancement Of Teaching And Learning In Higher Education [doi]: <https://dx.doi.org/10.6084/m9.figshare.14124389>

This Forum Insight provides an overview of the Digital Education Action Plan 2021-27: Resetting education and training for the digital age (DEAP)¹, published by the European Commission on 30 September 2020. The DEAP acknowledges the ke...

PDF

Cite as

Export

Area: Digital educational environment, Digital technology, E-learning

journal/newspaper article

Concepts for Digital Libraries in Education (2001)

N. Seshagiri

[link]: <http://repository.ias.ac.in/85193/>

This article does not have an abstract.

Cite as

Export

Area: Concepts for digital, Libraries in education

journal/newspaper article

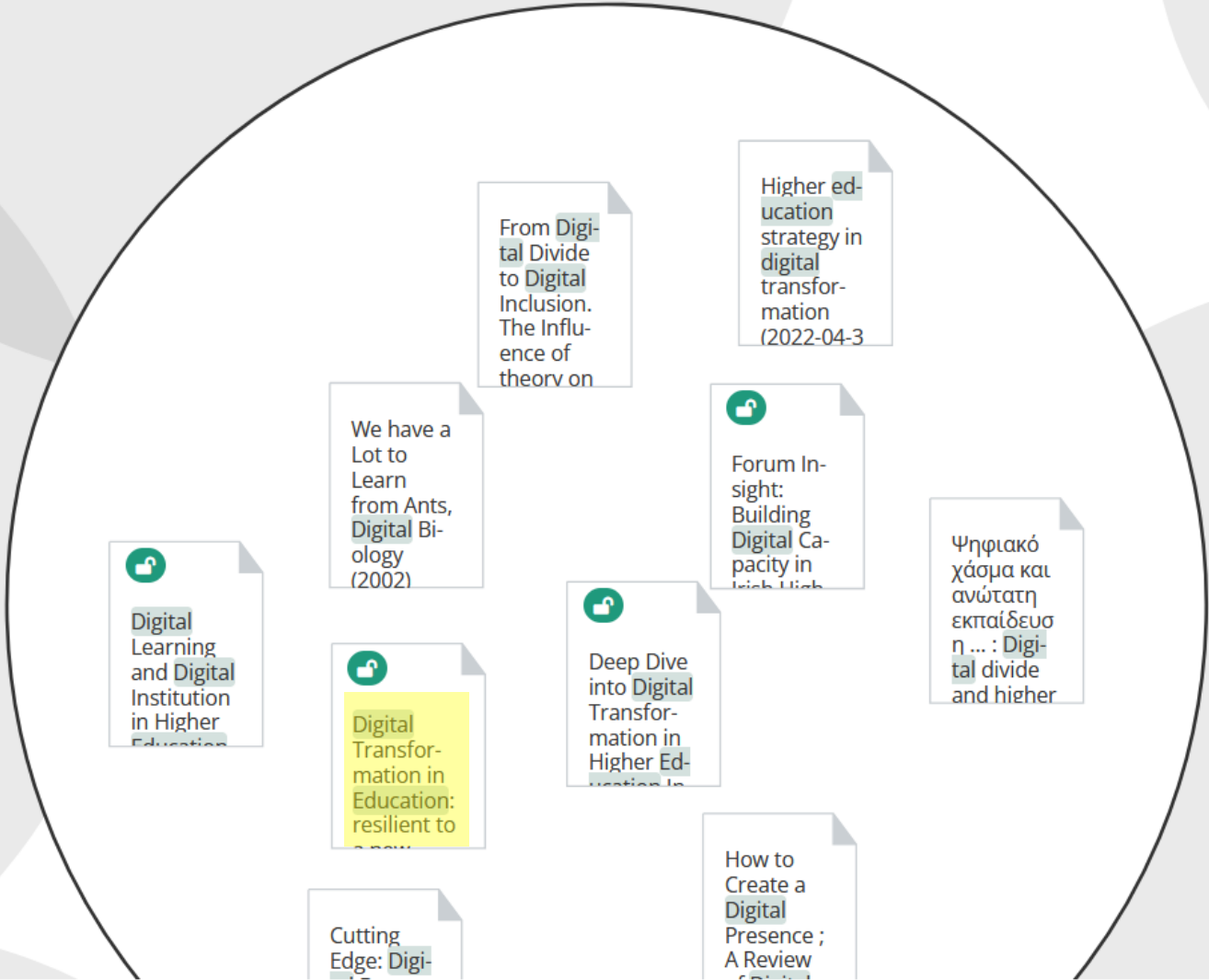
journal/newspaper other content



Area: Digital transformation, Digital divide, Competitive advantage

[← Back to overview](#)

-
-
-
- Cite



Area (10 documents)

Search within visualization

show: Any

sort by: Relevance

open access

journal/newspaper article

Digital Learning and Digital Institution in Higher Education (2023-01-01)

Mamdouh Alenezi

Education Sciences, Vol 13, Iss 88, p 88 (2023)

[doi]: <https://doi.org/10.3390/educsci13010088>

Higher education institutions are going through major changes in their education and operations. Several influences are driving these major changes. Digital transformation, online courses, digital-navy students, operational costs, and micro and...

PDF

Cite as

Export

Area: [Digital transformation, Digital divide, Competitive advantage](#)

journal/newspaper article

From Digital Divide to Digital Inclusion. The Influence of theory on international collaboration in higher education (2012)

Leo Van Audenhove

[link]: <https://biblio.vub.ac.be/vubir/from-digital-divide-to-digital-inclusion-the-influence-...>

No abstract available

Cite as

Export

Area: [Digital transformation, Digital divide, Competitive advantage](#)

Digital Learning and Digital Institution in Higher Education

1 of 9 Automatic Zoom

1

Digital Transformation in Education

Digital Transformation in Education: resilient to a new health crisis now?

Rens van Balveren 2107882 Aleksandr Maas 2103100 Dennis Wartenberg 2107996 Nieck Verton 2106962

ABSTRACT

The Digital Transformation within the Dutch higher education has gone through a revolution on account of the COVID-19 pandemic. The entire higher education suddenly needed to be provided digitally. Since the higher education institutions were not digitally resilient before the crisis started, several digital products were rapidly introduced to be able to keep the education going. Online communication tools, virtual classrooms and online exam environments have been widely implemented. This digital transformation has, however, not passed

of digital transformation of the education system to support the online learning opportunities, where the online education needed to be directly available for the students (Major, 2020).

To be able to provide all the lessons remotely, a new infrastructure was needed to be set up and prepared in a few days, which required big investments and creative efforts from the IT departments. This new way of conducting education that was forced by the pandemic, still has its impact on the 'post-pandemic' time. The digital transformation of education exposed the strengths and weaknesses of online learning, and created new

Advantages



OKMaps: Reasons for choosing BASE

One of the **largest academic search engines**

Harvests **20+ output types** in **400+ languages**

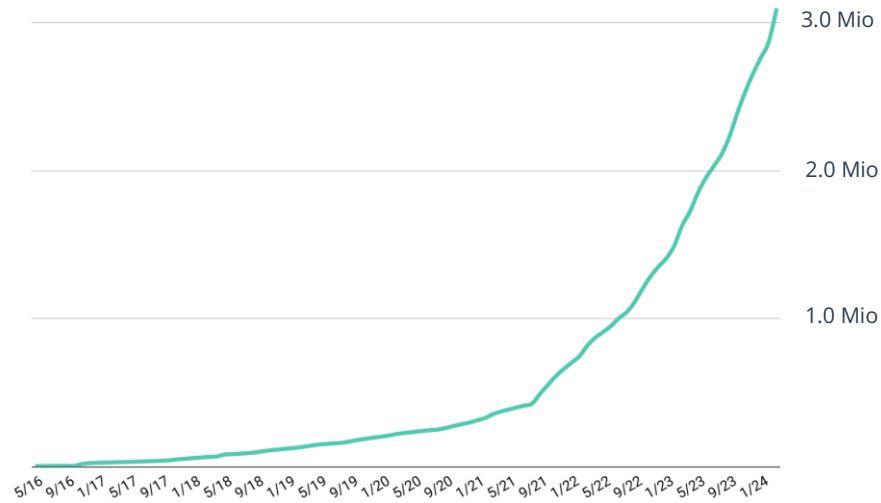
Inclusive inclusion criteria for new data sources

Great API with a wide variety of parameters for fine-grained adjustments

Exceptional collaboration from the start

The story so far

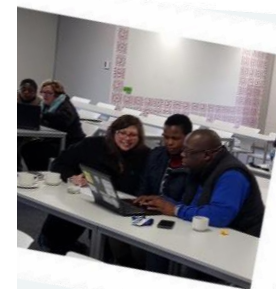
We are the largest AI-based search engine for research



3+ million knowledge maps created

150,000+ monthly users

200+ countries and territories



FEATURED IN

nature

futurezone.at
TECHNOLOGY NEWS

Open science
conference

AIMS

Hacker News

ScienceGeist
Everything about research

moz://a
festival

AWARDS

W ÖSTERREICHISCHER PREIS
FÜR FREIES WISSEN.

OPEN MINDS [The Austrian
Open Source Award]

All of our services are free & open

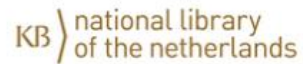


Our offering includes:

- ✓ AI-based search and discovery services
- ✓ Integrations for BASE, PubMed, and OpenAIRE
- ✓ A wide range of training activities and materials
- ✓ Our award-winning visualization software
- ✓ Community support & engagement programs
- ✓ Institutional integration via Custom Services



Supporting members

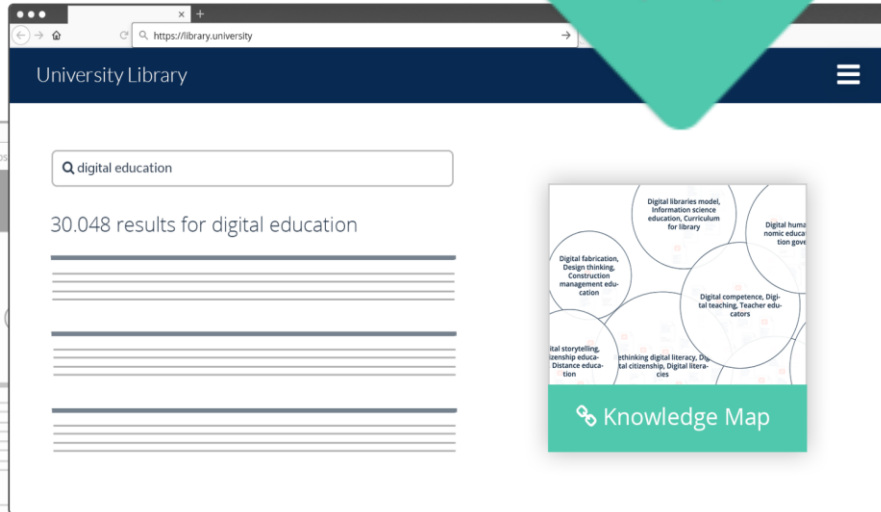




Custom Services



Custom Services in a nutshell



Integrate AI-driven discovery in your own offering

- ✓ Embed Open Knowledge Maps services in your own discovery systems based on your own data sources
- ✓ Provide AI-based, visual entry points to your holdings
- ✓ Available as easy-to-install cloud components
- ✓ Co-created with our supporting members and community



Search Resources and Users in Social Sciences and Humanities

[Search](#)

SEARCH TIPS : [femicide](#) [science ouverte](#) ["open access"](#) [\(fair OR "open access"\) AND publishing](#)

<https://gotriple.eu>



EUROPEAN OPEN
SCIENCE CLOUD

84.848 results

Documents 84.595

Projects 252

People 1

Your Search

digital education

Search



List

Visual

Knowledge Map

Get an overview of relevant concepts and documents

Streamgraph

Analyze trends over time and discover related documents

Sorting Relevance

Presentation: Digital innovation in education. Digital innovation in education.

Gutiérrez Castillo, Juan Jesús

Other, 2020-01-01

De sobra es conocido por todos, que el ya no tan nuevo siglo XXI comenzaba con desafíos para las instituciones educativas, derivados, entre otros aspectos, por el uso de las tecnologías de la información y comunicación. Investigaciones llevadas a cabo por autores como Schröder y Krüger...

Filter Documents

Discipline

Search

Education

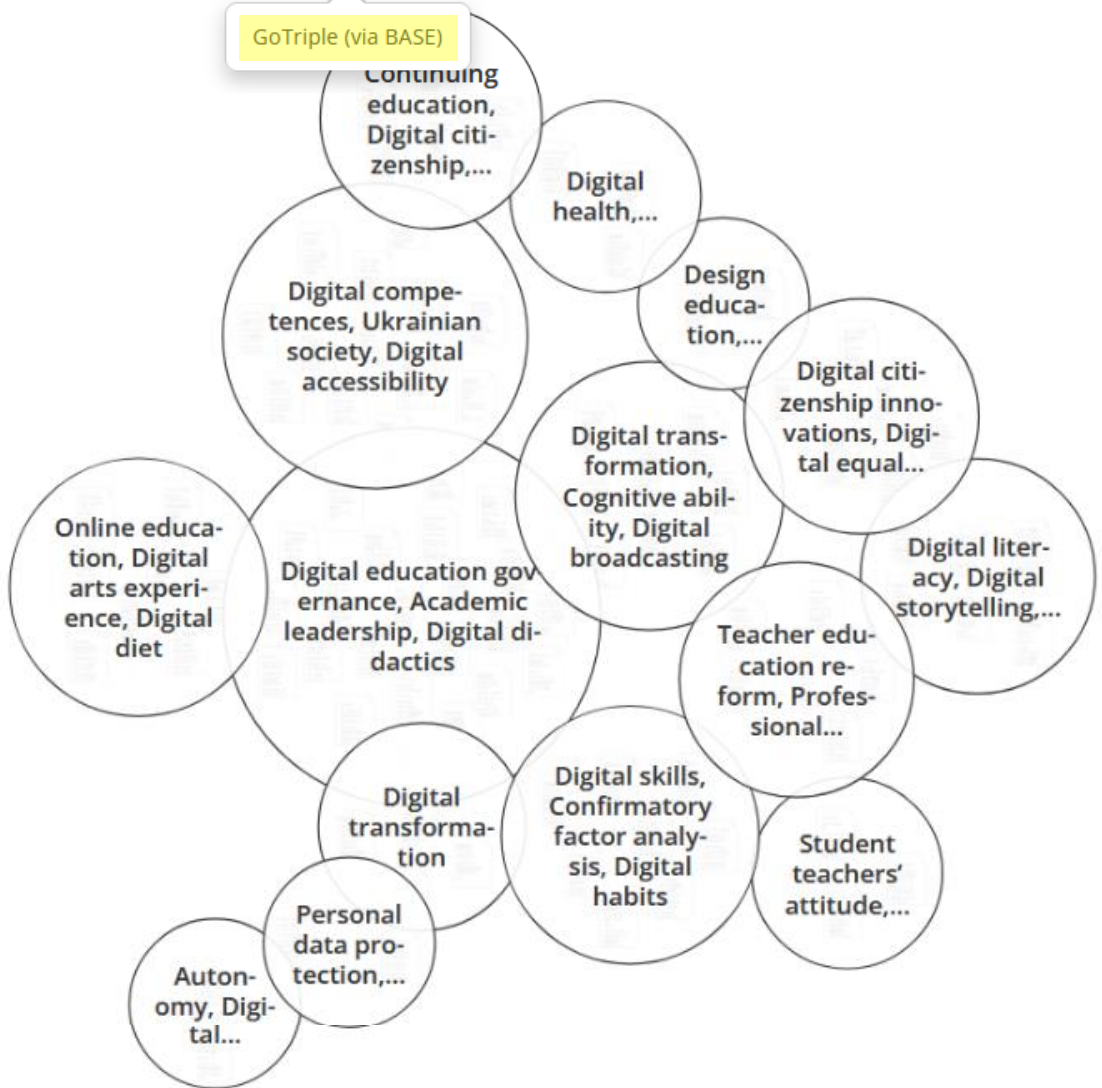
56.175

Sociology

19.150

Knowledge Map of digital education

100 most relevant documents Data source: GoTrip... 1 Jan 1802 - 28 Apr 2023 Document types All languages Data quality More information



Overview (100 documents)

Search within visualization show: Any sort by: Relevance

journal/newspaper article

"Learning is about being active, but the digital is not really active": physiotherapy teachers' attitudes toward and experiences with digital education (2022-09-09)

Yngve Røe, Tone Dahl-Michelsen
Journal of service theory and practice ; 1-11
[link]: <https://hdl.handle.net/11250/3041025>

Background: Digital education is expected to transform higher education teaching and learning. Despite high expectations, higher education teachers have been slow to implement active digital learning. Objective: The aim of this study was to investi-...

Cite as Export

Area: Digital education governance, Academic leadership, Digital didactics

journal/newspaper article

Digital Learning and Digital Institution in Higher Education (2023-01-01)

Mamdouh Alenezi
Education Sciences, Vol 13, Iss 88, p 88 (2023)
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Higher education institutions are going through major changes in their education and operations. Several influences are driving these major changes. Digital transformation, online courses, digital-navy students, operational costs, and micro and na...

Cite as Export

Library catalogue integrations

The screenshot displays a library catalogue search interface. At the top, the logos for ETH Zürich (ETH-Bibliothek @ swisscovery) and universität wien are visible. The search bar contains the query "education in finland". Below the search bar, there are filters for "International articles" and "ADVANCED SEARCH". A yellow banner prompts users to register as library customers for complete results. The search results are sorted by relevance and show two articles:

- Increasing absolute mortality disparities by education in Finland, Norway and Sweden, 1971–2000**
Shkolnikov, Vladimir M ; Andreev, Evgueni M ; Jdanov, Dmitri A ; Jasilionis, Domantas ; Kravdal, Øystein ; Vågerö, Denny ; Valkonen, Tapani
2012, Published by the BMJ Publishing Group Limited. For permission to use (where not already granted under a licence) please go to <http://group.bmj.com/group/rights-licensing/permissions>.
2012 BMJ Publishing Group
2015 INIST-CNRS...
Journal of epidemiology and community health (1979), 2012, Vol.66 (4), p.372-378
" ... Using high quality, census-linked data and sensible inequality measures, this study documents the changes in absolute and relative mortality differences by education in Finland, Norway and Sweden..."
PEER REVIEWED
[Näytä lehti/View issue](#) [Available Online](#)
- Shaping the concept of bioeconomy in participatory projects – An example from the post-graduate education in Finland**
Takala, Tuomo ; Tikkanen, Jukka ; Haapala, Antti ; Pitkänen, Sari ; Torssonen, Piritta ; Valkeavirta, Rosa ; Pöykkö, Tapani

The interface also includes a sidebar for refining results (Availability, Resource Type, Subject, etc.) and a "Tweak my results" section with various filters like Topic, Creator, and Form.

Integration at Bielefeld UL

Discovery system built with VuFind integrating ALMA-, EBSCO- and BASE-APIs

No total index because of open stacks library

Integration since 10/2023

No consistent but selectively higher usage of OKMaps so far

Example Bielefeld UL

UNIVERSITÄT BIELEFELD
Universitätsbibliothek

Startseite 0 in der Merkliste Anmelden (Ausleihkonto) Fragen? Sprache

Bibliotheks katalog Artikel und mehr BASE

artificial intelligence Alle Felder Suchen Erweitert

Suchergebnisse - artificial intelligence

Treffer 1 - 20 von 1.387.996

Treffer pro Seite 20 Sortieren Relevanz

Alle Treffer auswählen E-Mail Export Drucken Speichern In die Merkliste

1 **Artificial intelligence** In die Merkliste Als Favorit speichern
Autoren: Hebenstreit, Jacques Zum Volltext / Nachweis

2 **Artificial Intelligence and Molecular Biology Artificial Intelligence and Molecular Biology** In die Merkliste Als Favorit speichern
Autoren: Joshua, Lederberg Verlag: Tidak ada Penerbit Erscheinungsjahr: 2004 Zum Volltext / Nachweis

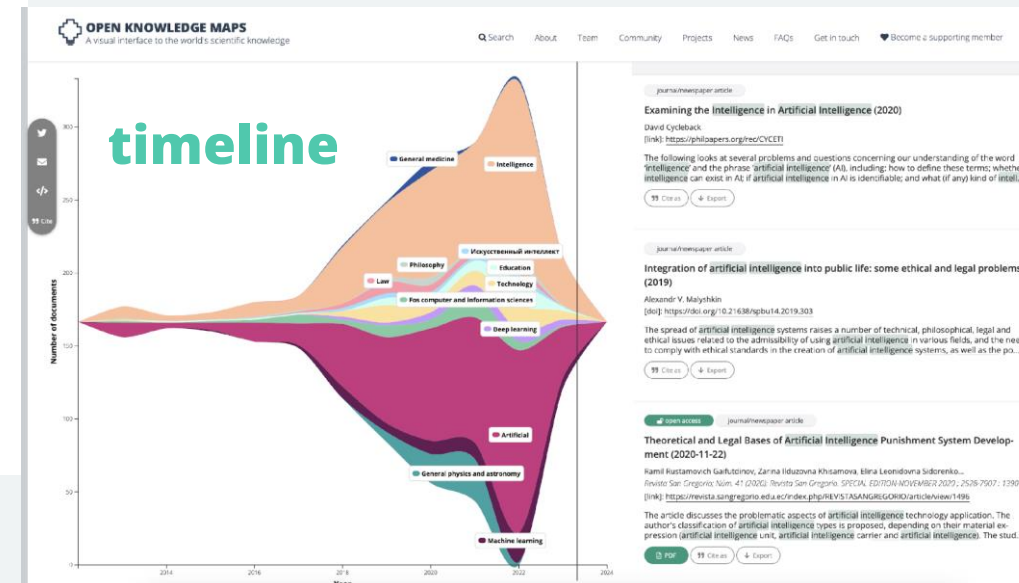
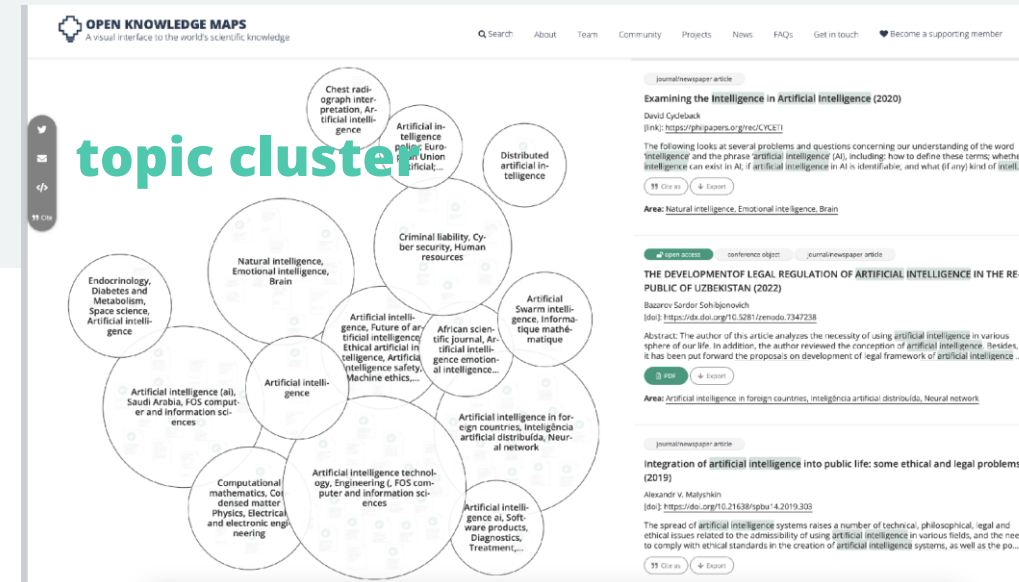
Open Knowledge Maps

- Knowledge Map erstellen
- Streamgraph erstellen

Suche einschränken

Verfasser	Anzahl
National Natural Science Foundation of China	40.010
Universität Toulouse Capitole (UT Capitole)	17.259
Université de Toulouse (UT)- Université Toulouse III - Paul Sabatier (UT3)	17.206
Université de Toulouse (UT)	17.078
Institut de recherche en infor-	

Online at: <https://katalogplus.ub.uni-bielefeld.de/BASEModule/>



Drowning in the literature? These smart software tools can help

Search engines that highlight key papers are keeping scientists up to date.

Google Scholar does not disclose the size of its database, but it is widely acknowledged to be the biggest corpus in existence, with close to 400 million articles by one estimate ([M. Gusenbauer *Scientometrics* 118, 177–214; 2019](#)). Open Knowledge Maps, meanwhile, is built on top of the open-source Bielefeld Academic Search Engine, which boasts more than 270 million documents, including preprints, and is curated to remove spam.

Research Europe, 26 May 2022

There are alternatives: academic-led initiatives such as the search engine BASE, the discovery tool Open Knowledge Maps, the Crossref agency that administers Digital Object Identifiers and many community-driven repositories serving particular places or disciplines.

Vielen Dank für die Aufmerksamkeit!

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