



University of Antwerp
| Faculty of Arts

Praktische implementatie van intelligente zoekfuncties voor doelgerichte zoekopdrachten in de academische bibliografie

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1. Specifieke opdracht

Zoekfunctie voor artikels met link naar
Sustainable Development Goals (SDGs)

Sustainable Development Goals (SDGs)



Sustainable Development Goals (SDGs)

- <https://sdgs.un.org/goals>
- 17 SDGs
- Breed omschreven via o.a. *targets & indicators*:

	Target 1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day
Indicators ▴	
1.1.1 Proportion of the population living below the international poverty line by sex, age, employment status and geographical location (urban/rural)	
	Target 1.2 By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions
Indicators ▴	
1.2.1 Proportion of population living below the national poverty line, by sex and age 1.2.2 Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions	

Uitdagingen

1. **Veelzijdigheid** van semantische links
2. **Focus** van een artikel: **activisme vs. beschrijven** etc.
3. **Relatief belang** van verschillende targets/indicators etc.

= **algemene oplossing** voor te vinden?

(die mogelijk makkelijk *à la tête du client* aangepast kan worden...)

2. Zoekalgoritme

Semantisch zoeken via Artificiële Intelligentie

Baseline-methode: *keyword matching*

- Bv. SDG 1: “No poverty”

—> zoek artikels met zoveel mogelijk van volgende keywords:

poverty

deprivation

scarcity

end

eradicate

terminate

scarcity

alleviation etc.

State-of-the-art voor Artificial Intelligence

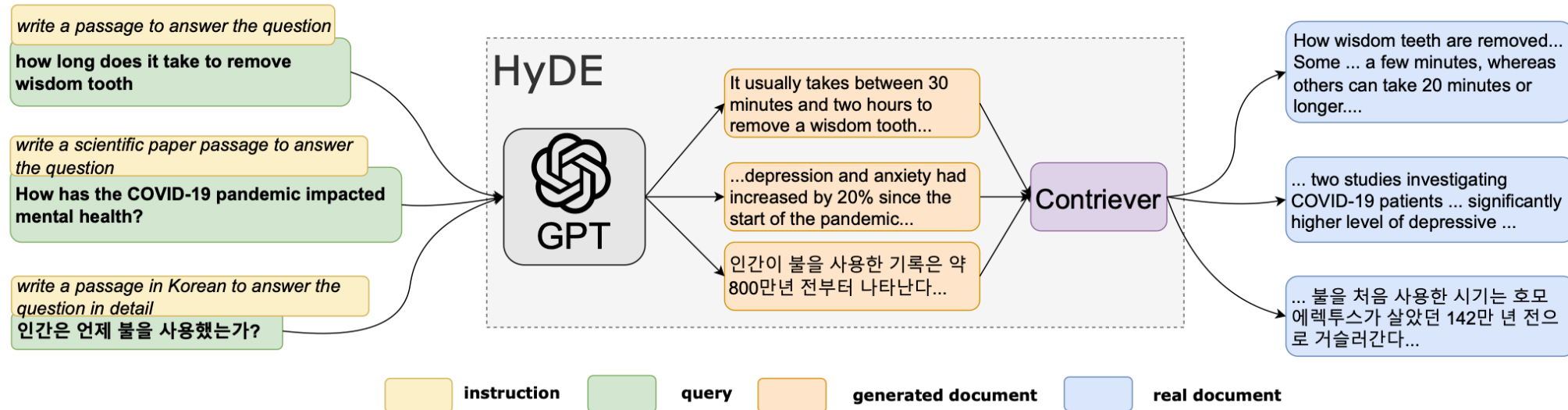


Figure 1: An illustration of the HyDE model. Documents snippets are shown. HyDE serves all types of queries without changing the underlying GPT-3 and Contriever/mContriever models.

ChatGPT to the rescue!

P Great! Can you give 10 good prototypical examples of scientific research articles which concern goal 1? 

 I'm sorry, but providing 10 good examples of scientific research articles that specifically address Goal 1 of the Sustainable Development Goals (No Poverty) would require more context and a specific field of research or topic. The SDGs are broad and cover many different areas, and there are countless research articles that could potentially be relevant to Goal 1 depending on the specific area of focus. However, I can give you general information on how scientific research contribute to Goal 1: No Poverty.  

1. Research on poverty reduction strategies and policies, such as microfinance and income-generating activities for the poor.
2. Studies on the impact of economic growth on poverty reduction and inequality.
3. Analysis of the effectiveness of social protection programs, such as cash transfers and food assistance, in reducing poverty and vulnerability.
4. Research on the relationship between education and poverty, including the role of education in breaking the intergenerational transmission of poverty.
5. Studies on the impact of specific sectors, such as agriculture and industry, on poverty reduction and economic development.

3. Eerste prototype

Interactieve omgeving

Eerste prototype: interactieve omgeving

- <http://textua.uantwerpen.be/app/5>

Sustainable Development Goals in the academic bibliography

Select the Sustainable Development Goal

SDG 1 - End poverty

Select the language

English

Select the faculties

All

Select the publication_types

All

Select the maximum amount of retrieved publications

20

Run

Download

Execution history

Run 1

title	abstract	REFERENCE_DESCR	publication_type	faculties	authors	journal	language	domains	identifier
The impact of household head labor status and ...	The study follows a worker-based approach and ...	Studies on the role of gender and social inclu...	[A1 Journal article]		[Ngoc Nguyen, Le Tin]	Journal of Eastern European and Central Asian ...	eng	[Economics]	c:irua:188449
Extreme child poverty and the role of social p...	This paper applies improved household income d...	Research on the relationship between education...	[A1 Journal article]	[Faculty of Social Sciences. Sociology]	[Zachary Parolin, David Brady]	Journal of Poverty and Social Justice	eng	[Sociology]	c:irua:158642
Negotiating performance : the strategic respon...	Situated in the Belgian city of Antwerp, this ...	Research on the relationship between education...	[H1 Book chapter]	[Faculty of Social Sciences. Sociology]	[Peter Raeymaeckers, Pieter Cools]		eng	[Sociology, Politics]	c:irua:183642
Poor workers in rich democracies : on the natu...		Research on the relationship between urbanizat...	[Minutes and reports]	[Faculty of Social Sciences. Sociology]	[Rod Hick, Ive Marx]		eng	[Sociology]	c:irua:186898
The rise of the fiscal state? Urban finances, ...		Research on the relationship between education...	[H1 Book chapter]	[Faculty of Arts. History]	[Bruno Blondé, Jord Hanus, Wouter Ryckbosch]		eng	[History]	c:irua:173866
Mapping geographical inequalities in childhood...	Background Across low-income and middle-income...	Research on the relationship between urbanizat...	[A1 Journal article]	[Faculty of Medicine and Health Sciences]	[Robert C., Jr. Reiner, Kirsten E. Wiens, Anir...	The lancet : international edition	eng	[Human medicine]	c:irua:170211
Level of cardiovascular disease knowledge, ris...	Background The burden of cardiovascular diseases...	Analysis of the role of technology and innovat...	[A1 Journal article]	[Faculty of Medicine and Health Sciences]	[Hamid Hassen, Mark Bowyer, Linda Gibson, Stev...	BMC public health	eng	[Human medicine]	c:irua:185605
Parents' perception on cause of malaria and th...	Introduction School-aged children become a hig...	Research on the impact of conflict and fragili...	[A1 Journal article]	[Faculty of Medicine and Health Sciences]	[Zerihun Zerdo, Jean-Pierre Van geertruyden, F...	PLoS ONE	eng	[Human medicine, Engineering sciences. Technol...	c:irua:171858

Eerste prototype: interactieve omgeving

- <http://textua.uantwerpen.be/app/5>
- Interactieve widgets voor subselectie van databank
- Download de output als simple .csv-file:

Select the maximum amount of retrieved publications

20

1 100

▶ Run Download ▾

Execution history

Run 1 ▾

✖ Clear runs

App Output Files

Output Files

📄 ranking.csv

Download

← Back to App

Eerste prototype: interactieve omgeving

SDG 1 (No poverty):

Publicatie

Titel	The Truly Vulnerable : integrating wealth into the measurement of poverty and social policy effectiveness
Auteur	<i>Kuypers, Sarah</i> <i>Marx, Ive</i>
Taal	Engels
Bron (tijdschrift)	Social indicators research: an international and interdisciplinary journal for quality-of-life measurement. - Dordrecht
Uitgave	Dordrecht : 2019

UAntwerpen

Faculteit/Departement	Faculteit Sociale Wetenschappen. Sociologie
Onderzoeksgroep	Centrum voor sociaal beleid Herman Deleeck (CSB)
Projectinfo	Het meten en mobiliseren van vermogen voor een samenhangende, inclusieve en eerlijke samenleving (CRESUS).
Publicatietype	A1 Tijdschriftartikel
Onderwerp	Sociologie
Affiliatie	Publicaties met UAntwerpen adres

Eerste prototype: interactieve omgeving

SDG 1 (No poverty):

Publicatie

Titel	Extreme child poverty and the role of social policy in the United States
Auteur	<i>Parolin, Zachary</i> Brady, David
Abstract	This paper applies improved household income data to reevaluate the levels, trends, composition, and role of social policy in extreme child poverty in the US from 1997 to 2015. We adjust for benefit underreporting and incorporate the Supplemental Nutritional Assistance Program (SNAP). This reduces the share of children below \$ 2 per day from 1.8 per cent to 0.1 per cent in 2015. However, survey data omits the 1.3 million homeless children. Unlike prior literature's focus on single motherhood, citizenship status is more consequential to extreme poverty. We also demonstrate that increases in SNAP generosity and take-up enabled declines in three measures of extreme child poverty.
Taal	Engels
Bron (tijdschrift)	Journal of Poverty and Social Justice
Uitgave	2019

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4. Toekomstperspectieven

Verwachtingen voor gespecialiseerde zoekalgoritmes

Brainstorm: waar moeten we naartoe?

- Ondertussen véél mogelijkheden door taalmodellen zoals ChatGPT etc.
- **Gebruikservaring** centraal om richting te kunnen bepalen:
 1. Welk **zoekdoel**?
 2. Wat is **computationeel** schaalbaar (bv. acceptable wachttijd)?
 3. Mogelijkheid om **feedback van de gebruiker** te verzamelen?
 4. Welke algoritmes vallen **makkelijk automatisch te updaten**?
 - ...
- *The proof is in the pudding*: kleine proefprojecten zeer leerzaam

5. TEXTUA

Antwerp Text Mining Centre
Universiteit Antwerpen

TEXTUA: Praktische informatie

- www.uantwerpen.be/textua
- pieter.fivez@uantwerpen.be
- **Kernfaciliteit** van de Universiteit Antwerpen
- **Text mining:** automatische verwerking en analyse van tekstdata op grote schaal
- **Tekstdata:**
 - formele of informele tekst
 - automatische taalverwerking
 - geschreven tekst in afbeeldingen (kan automatisch gedetecteerd worden)
 - automatisch gegenereerde beschrijvingen van afbeeldingen



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