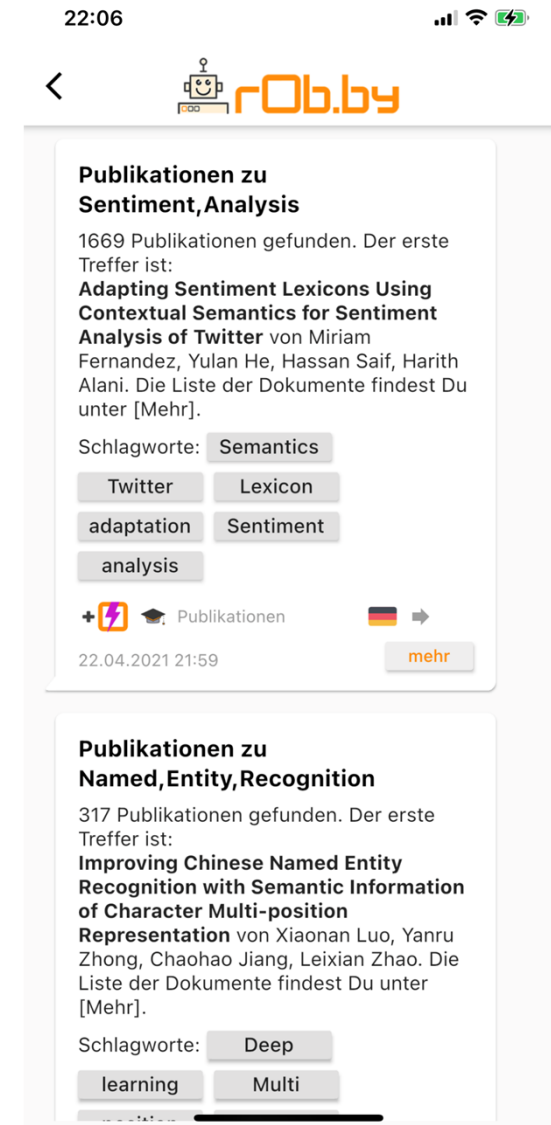


Finding without Searching: Using Rule-based AI for being [ontology4.us] automatically updated with relevant Scientific Publications

- Dipl.-Inform. Hermann Bense
hb@bense.com

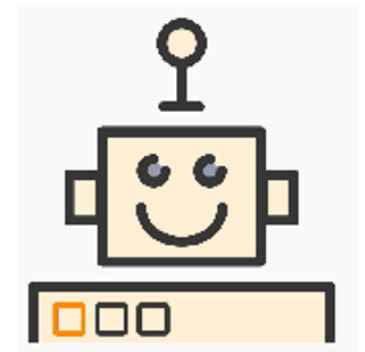
ontology4.us
rob.by/en/Search/Pubs Examples/
rob.by/en/Search/Pubs/most_recent/
ontology4.us/library/Papers/Bens2021b_Pubs/index.html
schematik.de
predicator.name
schreib-maschine.info

[bense.com] Verlagsgesellschaft für Digitales Publizieren GmbH
Schwarze-Brüder-Straße 1
44137 Dortmund



Motivation

- Scientists spend a substantial amount of time on
 - Rechercheing publications
 - Writing papers
 - Creating lists of references
- Publish or perish
 - How can one be sure to know about the most recent publications in the specific research domain?
 - How can one be sure to be the first with a publication
- Solution
 - Apply machine intelligence (AI) for the automatic creation of publication corpora
 - Use smart ChatBot rObby for the automated notification on relevant publications



Agenda

- Corpora
 - Data Model / Import Interface
 - Document Structure
 - Crawling and Indexing
- Searching and Alerting
 - Browsing
- rOb.by-App
 - Rule-based Notification on Publications
- Relevance & Performance Issue
 - Recall & Precision
 - Caching
- Comparison to other Search Engines
 - TIB, Google Scholar, Google
- Summary
 - Benefits

Publication Imports

Data Model / Import Interface

The screenshot shows a news article from news.de with a data model overlay. The data model is a table with columns: #, Subject, Title, Object, and ArticleBody. The rows contain the following data:

#	Subject	Title	Object	ArticleBody
1	Headline	Helene Fischer: Bombe geplatzt! Helene-Comeback doch noch in diesem Jahr		
2	Type	Person		
3	Name	Helene Fischer		
4	DatePublished	2019-03-16 13:46:47		
5	URI	http://www.news.de/promis/855750604/helene-fischer-comeback-2019-trotz-angekündigter-pause-zdf-verraet-helene-weihnachts		
6	ArticleBody			Damit hatte wohl keiner mehr gerechnet. Seit ihrem letzten öffentlichen TV-Auftritt Mitte Januar fehlt von Helene Fischer jede Spur. In dem Terminkalender der hübschen Sängerin herrscht weiterhin gähnende Leere - zumindest bis jetzt. Denn wie nun bekannt wurde, könnte Helenes TV-Comeback schon viel früher kommen, als bislang erwartet. Helene Fischer: ZDF lässt Bombe platzen! TV-Comeback noch in diesem Jahr Wie "Der Westen" online berichtet, müssen Helenes Fans offenbar nicht das ganze Jahr ohne ihre geliebte Schlagerqueen auskommen. Dem Bericht zufolge, wird die "Helene Fischer Show" auch 2019 pünktlich zu Weihnachten in deutschen Fernsehen übertragen. Das zumindest bestätigte ZDF-Unterhaltungschef Oliver Heidemann gegenüber der "Hörst" - die Helene Fischer Weihnachtsshow als eine erfolgreiche Zusammenkunft der Fans auch in diesem Jahr fortsetzen werden. Lesen Sie auch: Schlager-Queen von Neomax bedroht! Helene Fischer Weihnachtsshow 2019 findet offenbar statt! Bedeutet also, dass die Helene Fischer Weihnachtsshow auch in diesem Jahr am ersten Weihnachtsfeiertag (25.12.2019) über die Bildschirme von Millionen deutschen Zuschauern flimmern wird. Bislang herrschte Unklarheit, ob Helene Fischer auch in diesem Jahr für das ZDF-Projekt zur Verfügung steht. Ende Oktober hatte die Sängerin bereits die Show abgesagt und sich dabei auf den letzten anderthalb Jahren hatte ich zwei tolle Touren. Jetzt will ich mir Zeit nehmen, um kreativ zu sein. Ich werde mich ein bisschen zurückziehen. Aber wenn es neue Musik gibt, lasse ich euch natürlich teilhaben. Wie lange dauert Helenes Pause noch? Wie lange Helene Fischers Pause andauern wird, das behält die Schlager-Schönheit bislang jedoch für sich. Ob sich Helene tatsächlich erst Ende des Jahres zurückmelden wird, bleibt abzuwarten. Bislang wurden keine weiteren Auftritte oder ein neues Album angekündigt. Bleibt also abzuwarten, wann sich Helene Fischer endlich zurückmelden wird. Fischer selbst hat sich bislang nicht zu den aktuellen Berichten über ihren georgischen Auftritt in der "Helene Fischer Show 2019" geäußert.
7	Description	Endlich gute Nachrichten für alle Helene Fischer-Fans: Wie jetzt bekannt wurde, wird Helenes Auszeit doch nicht allzu lange dauern. Berichten zufolge wird die Schlagersängerin noch in diesem Jahr wieder auf die Showbühne zurückkehren. Wo und wann, erfahren Sie hier!		

The article text is also visible, discussing Helene Fischer's TV comeback. The text mentions that Helene Fischer's TV comeback is still uncertain, but it is expected to happen in December 2019. The article also mentions that Helene Fischer's TV comeback is still uncertain, but it is expected to happen in December 2019.

- Keywords stored for Authors, Titles, Dates
- Using MySQL-base Triple-store O4Store
- Plus Key-Value-Store (KVS)

Crawling of Scientific Publications

● Sources

- Springer Professional
- TIB
- PubMed

● Size of Corpus

- Number of Documents: ~ 2.9 Mio.
- Number of Triples: ~232 Mio.
- Number of KVS Tripels: ~ 90 Mio.

● Crawling speed and volume

- Daily Rate: approx. 2.500 to 3.400 new publications

● Structure

- DOI, URL
- Authors, Title, Summary
- Disciplines
- Keywords
- References

■ Springer Professional: <https://www.springerprofessional.de/>

■ TIB Leibniz-Informationszentrum Technik und Naturwissenschaften: <https://www.tib.eu/de/>

■ NIH National Library of Medicine (PubMed): <https://pubmed.ncbi.nlm.nih.gov/>

List (0 - 40 / 1 found / 231.417.305 total number of entries) Importer | OWL/raw-data-Importer

Search: SELECT * FROM relation WHERE ('Relation_Subject' = '>PUB_9K1NIK') ORDER BY 'Id' DESC

#	Subject	Name	Object	Ontologies
1	>PUB_9K1NIK	<>PUB_prev	<>PUB_2VM9I4	SPRPRF
2	>PUB_9K1NIK	.Description	Our objective in this work is long range understanding of the narrative structure of movies. Instead of considering the entire movie, we propose to learn from the 'key scenes' of the movie, providing a condensed look at the full storyline. To this end, we make the following three contributions: (i) We create the Condensed Movies Dataset (CMD) consisting of the key scenes from over 3 K movies: each key scene is accompanied by a high level semantic description of the scene, character face-tracks, and metadata about the movie. The dataset is scalable, obtained automatically from YouTube, and is freely available for anybody to download and use. It is also an order of magnitude larger than existing movie datasets in the number of movies; (ii) We provide a deep network baseline for text-to-video retrieval on our dataset, combining character, speech and visual cues into a single video embedding; and finally (iii) We demonstrate how the addition of context from other video clips improves retrieval performance.	SPRPRF
3	>PUB_9K1NIK	<>isi	*Publication	SPRPRF
4	>PUB_9K1NIK	<>Subdiscipline	>DSP_Artificial_Intelligence	SPRPRF
5	>PUB_9K1NIK	.DOC	{BODY[{TITLE[Condensed Movies: Story Based Retrieval with Contextual Embeddings]TITLE}[DOI[978-3-030-69541-5_28]DOI][PUBLISHEDDATE[2021-02-26]PUBLISHEDDATE][AUTHOR[Max Bain[AUTHOR]Arsha Nagrani[AUTHOR]Andrew Brown[AUTHOR]Andrew Zisserman[AUTHOR][KEYWORD[KEYWORD][DESCRIPTION[Our objective in this work is long range understanding of the narrative structure of movies. Instead of considering the entire movie, we propose to learn from the 'key scenes' of the movie, providing a condensed look at the full storyline. To this end, we make the following three contributions: (i) We create the Condensed Movies Dataset (CMD) consisting of the key scenes from over 3 K movies: each key scene is accompanied by a high level semantic description of the scene, character face-tracks, and metadata about the movie. The dataset is scalable, obtained automatically from YouTube, and is freely available for anybody to download and use. It is also an order of magnitude larger than existing movie datasets in the number of movies; (ii) We provide a deep network baseline for text-to-video retrieval on our dataset, combining character, speech and visual cues into a single video embedding; and finally (iii) We demonstrate how the addition of context from other video clips improves retrieval performance.]}BODY]}	SPRPRF
6	>PUB_9K1NIK	<>is_Publication_of	>ATHR_TTEXR	SPRPRF
7	>PUB_9K1NIK	<>Discipline	>DSP_Computer_Science	SPRPRF
8	>PUB_9K1NIK	.KVS	F	SPRPRF
9	>PUB_9K1NIK	<>is_Publication_of	>COM_NFDQSH	SPRPRF
10	>PUB_9K1NIK	.CoverImage	https://media.springernature.com/w306/springer-static/cover/book/978-3-030-69541-5.jpg	SPRPRF
11	>PUB_9K1NIK	.DatePublished	2021-02-26	SPRPRF
12	>PUB_9K1NIK	<>is_Publication_of	>ATHR_UIZ0UZ	SPRPRF
13	>PUB_9K1NIK	.URL	https://link.springer.com/chapter/10.1007/978-3-030-69541-5_28	SPRPRF
14	>PUB_9K1NIK	.DOI	978-3-030-69541-5_28	SPRPRF
15	>PUB_9K1NIK	.DateTimelImported	2021-04-21_12:57:49.354	SPRPRF
16	>PUB_9K1NIK	.Title	Condensed Movies: Story Based Retrieval with Contextual Embeddings	SPRPRF
17	>PUB_9K1NIK	<>is_Publication_of	>ATHR_KOY3ZP	SPRPRF
18	>PUB_9K1NIK	<>is_Publication_of	>ATHR_JDSXEX	SPRPRF
19	>PUB_9K1NIK	.References	56	SPRPRF
20	>PUB_9K1NIK	<>Reference	<>REF_LOCLG3	SPRPRF
21	>PUB_9K1NIK	<>Reference	<>REF_SFZ01Z	SPRPRF

Indexing of Publications

- **Multiple Language Support**
 - Translations of Titles from any Language to English and German
- **Lemmatization**
 - German and English titles are lexically analysed by Stanza and TreeTagger
- **Key Value Store (KVS)**
 - All Author names, keywords and lemmas and the publishing date are stored in the KVS
 - Each KVS entry has a count for the number of documents referenced by the entry

>PUB_V4T350 NULL	0:Title Culture of Engagement: Preparing Civic-Minded Public Service Professionals of the Future
978-3-319-62971-1_15	Description: The emerging arena of community-based research (CBR) and service-learning incorporates a collaborative approach of civic engagement for students to analyze and develop solutions to complex problems and bring about social change and strengthen communities. Focusing specifically on the student populat
2017-11-03	10 KWinserd Keywords:Kapucu, Community, based, Research,, CBR, facultyFaculty, Service, learning, Course, Public, Administration, Programs
isTrans	ANinserted AuthNames:Naim Kapucu, Fatih Demiroz, Brittany Haupt, Mirtha Bailey
KVS_Pubs_exists	3 TKWinserd TitleWordsKVS:Culture, of, Engagement, Preparing, Civic, Minded, Public, Service, Professionals, of, the, Future
EN_Title_exists	2 SDinserted Subdiscipline:Higher,Education
DE_Title_exists	6 TW_DE_inserted LemmasDEulO:kultur, engagement, vorbereitung, zukünftig, fachkraft, dienst, bürgersinn
TimeOut new start:	1 TW_EN_inserted LemmasENulO:culture, engagement, preparing, civic, minded, service, professional, future
lngEN:EN lngDE:EN	URL: Detail:>PUB_V4T350 NULL
lngFR:	CorAuthor:
P7: KB:CRAWLER KVS:F	deepl Results:
PrevId:NULL NextId:NULL	TREN:EN Culture of Engagement: Preparing Civic-Minded Public Service Professionals of the Future
CD:2021-04-14	TRDE:EN Kultur des Engagements: Vorbereitung der zukünftigen Fachkräfte des öffentlichen Dienstes mit Bürgersinn
	DateTimelImported:

PHP-Time:43.65404009819 PHP-Total:44.574103116989
Query-Time: 2.5348002910614 Queries:68 Total:99 Time/Query:0.025604043344055

>PUB_2VM9I4 TIB	0:Title „Vergessen, verdrängt, verschwunden“: aufgegebene Kulturen, Beziehungen und Orientierungen in der Balkanromania
NULL	Description: NULL
2018-01-01	5 KWinserd Keywords:Literatur, Kulturwandel, sprachliche, Minderheit, Balkanromanisch
isTrans	ANinserted AuthNames:
KVS_Pubs_exists	3 TKWinserd TitleWordsKVS:Vergessen, verdrängt, verschwunden, aufgegebene, Kulturen, Beziehungen, und, Orientierungen, in, der, Balkanromania
EN_Title_exists	2 SDinserted Subdiscipline:Historische,Linguistik
DE_Title_exists	5 TW_DE_inserted LemmasDEulO:verdrängen, aufgeben, kultur, beziehung, orientierung, balkanromania
TimeOut new start:	3 TW_EN_inserted LemmasENulO:cultures, relations, orientations, balkanromania
Language:de lngEN:DE	URL: Detail:>PUB_2VM9I4 https://www.tib.eu/de/suchen/id/TIBKAT:1009949446/Vergessen-verdr%C3%A4ngt-verschwunden-aufgegebene-Kulturen?cHash=84e1612bc960b1afb8325713067c170d
lngDE:DE lngFR:	CorAuthor:
P7: KB:CRAWLER KVS:F	deepl Results:
PrevId:>PUB_DFLDDR NextId:NULL	TREN:DE "Forgotten, repressed, disappeared": abandoned cultures, relations and orientations in Balkanromania.
CD:2021-04-14	TRDE:DE „Vergessen, verdrängt, verschwunden“: aufgegebene Kulturen, Beziehungen und Orientierungen in der Balkanromania
	DateTimelImported:

PHP-Time:26.297097921371 PHP-Total:26.39576292038
Query-Time: 0.7346830368042 Queries:70 Total:101 Time/Query:0.0072740894733089

- Stanza (StanfordNLP): <https://stanfordnlp.github.io/stanza/pos.html>
- TreeTagger: <https://www.ims.uni-stuttgart.de/forschung/ressourcen/werkzeuge/treetagger/>

Keyword Frequencies

- The following list represents the relation between the order of magnitude of keywords and the number of documents to which they are associated. The selective in per Mille designates the portion of documents in relation to the corpus of 2.9 Mio. documents
 - ca. 57.000 Keywords with ≥ 50 findings
 - ca. 34.900 Keywords with ≥ 100 findings, selectivity: 0,03 ‰
- High frequency keywords (HFK)
 - ca. 5400 Keywords with ≥ 1000 findings, selectivity: 0,3 ‰
 - ca. 920 Keywords with ≥ 5000 findings, selectivity: 1,5 ‰
- Very high frequency keywords (VHFK)
 - ca. 340 Keywords with ≥ 10.000 findings, selectivity: 3 ‰
 - ca. 100 Keywords with ≥ 20.000 findings, selectivity: 6 ‰
 - ca. 45 Keywords with ≥ 30.000 findings, selectivity: 9 ‰
 - ca. 25 Keywords with ≥ 40.000 findings, selectivity: 14 ‰, documents: $25 * 40k = 1$ Mio.
 - ca. 20 Keywords with ≥ 50.000 findings, selectivity: 17 ‰, documents: $20 * 50k = 1$ Mio.
 - ca. 10 Keywords with ≥ 70.000 findings, selectivity: 25 ‰, documents: $10 * 70k = 700k$
- With the $10 + 20 + 25 = 55$ top keywords 2.7 Mio documents are indexed, which is almost the complete corps
 - The [list of keywords frequencies](#) shows that the top keyword *Engineering* is assigned to ca. 130 k documents.
 - It is followed by the keywords ***Systems, Intelligence, Analysis, Management, based, System, Theory, computational and Information*** each of them indexing more than 60k documents.
 - Taking *Systems* and *System* together would even account for 175k documents.
 - The 10 top keywords select ca. 700k documents, the following 11 to 20 about 1 Mio. and again the following 21 to 30 also about 1 Mio.
 - Keywords indexing more than 10k documents are regarded as very high-frequency keywords (VHFK). About 340 keywords fulfill this criteria.
 - The keywords indexing less than 100 documents are coined very low-frequency keywords (VLFK) those with less than 1k documents low-frequency keywords (LFK). About 57k keywords index between 50 to 100 documents

Plurals, Homonyms, Author Names

Recommendations for Search Optimization

- **Plurals:**

- ▶ Often the singular and plural forms of nouns are indexed. To find all appearances in publications in search queries both forms should be used in rules/queries using the pipe symbol | for the OR-function e.g. `System|Systems` or `Machine|Machines`

- **Homonyms:**

- ▶ Very high frequency homonyms (VHFKs) like *brand* (English and German noun), *can* (English verb and noun), *jet* (English conjunction and noun), *lead* (English adjective and noun), *not/Not* (English negation and German noun for need), *may* (verb and name of month), *second* (numeral and noun), *set* (verb and noun), *song/Song* (noun and named entity), *state/s* (noun for *status* and noun for *country*) and *use* (verb and noun) require special treatments.
- ▶ In best case the meaning can be derived from the context where the words are in. But currently is it not simply possible to make this distinction for the entries in the KVS.
- ▶ A similar problem shows up for named entities. Examples: *Schade* (last name of author and german adjective for *pity*) and *Siegel* (last name of author and german noun for *seal/signet*).

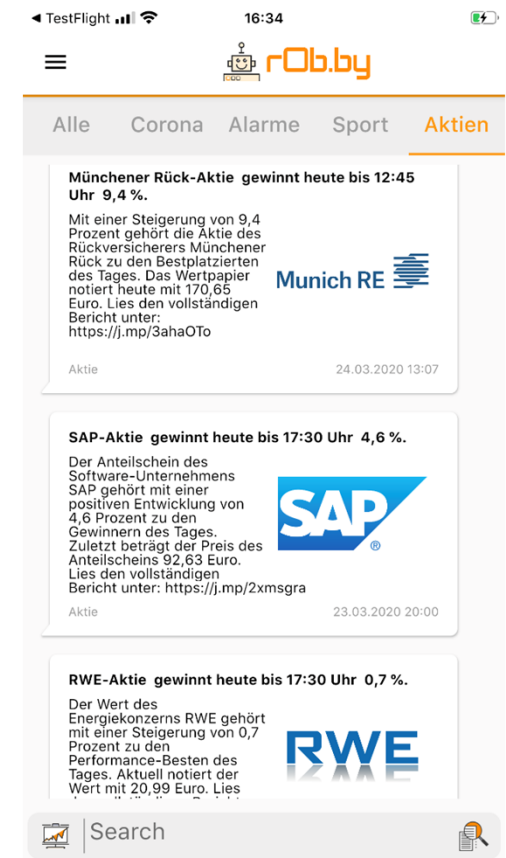
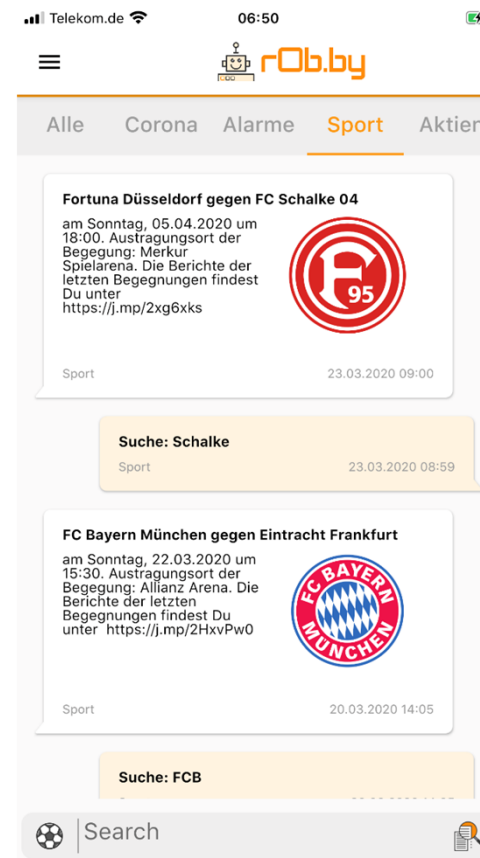
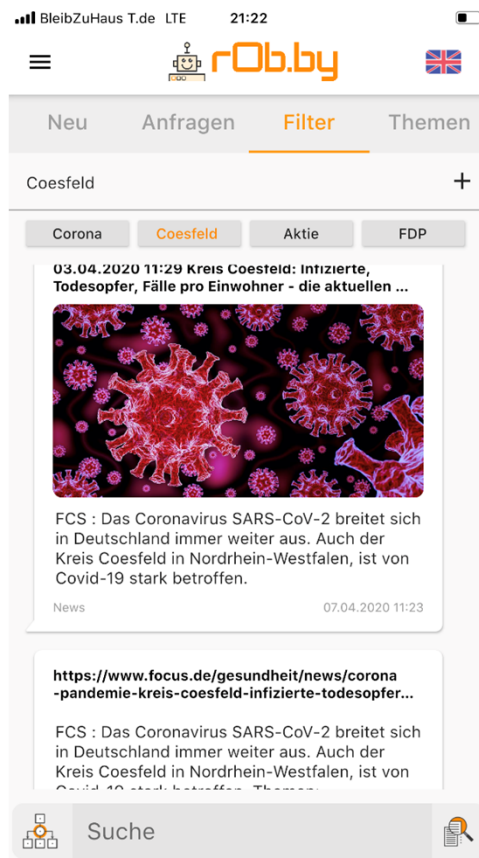
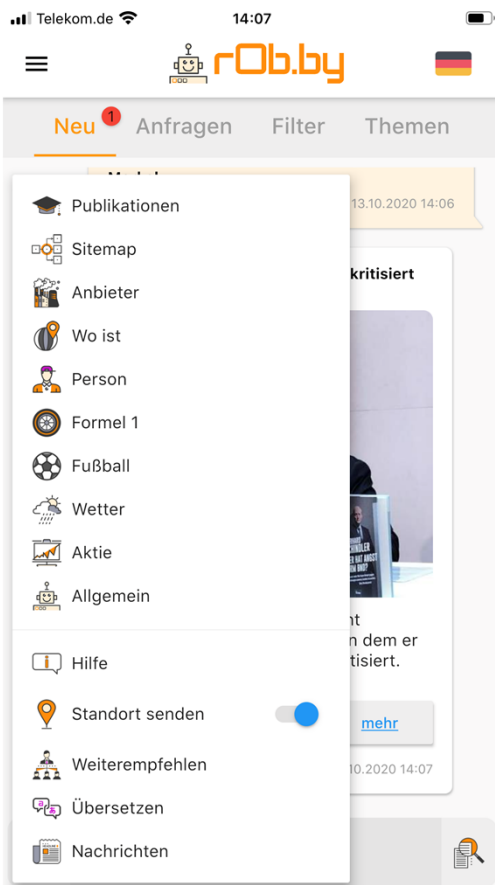
- **Author Names:**

- ▶ Normally author names are very selective especially in combinations.
- ▶ But a lot of Author names belong to the set of very high frequency keywords (VHFK) like *John*, *Paul* and *Smith*, Asian author names like *Cheng*, *Gao*, *Guo*, *Han*, *Huang*, *Jiang*, *Kim*, *Lee*, *Lin*, *Liu*, *Lung*, *Yang*, *Zhao*, *Zhang*, *Zheng*, *Zhou* and *Zhu* and Indian authors names like *Kumar* and *Singh* belong to the VHFKs. Also often cited authors like *Moore* and *Markov* fall into this category.

Examples for User Queries and rule-based Notifications

● rOb.by Functions:

- ▶ News, Publication, Event, Weather, Stock Search & Notifications
- ▶ Multi language translations and chat for > 25 languages supported by deepl.com

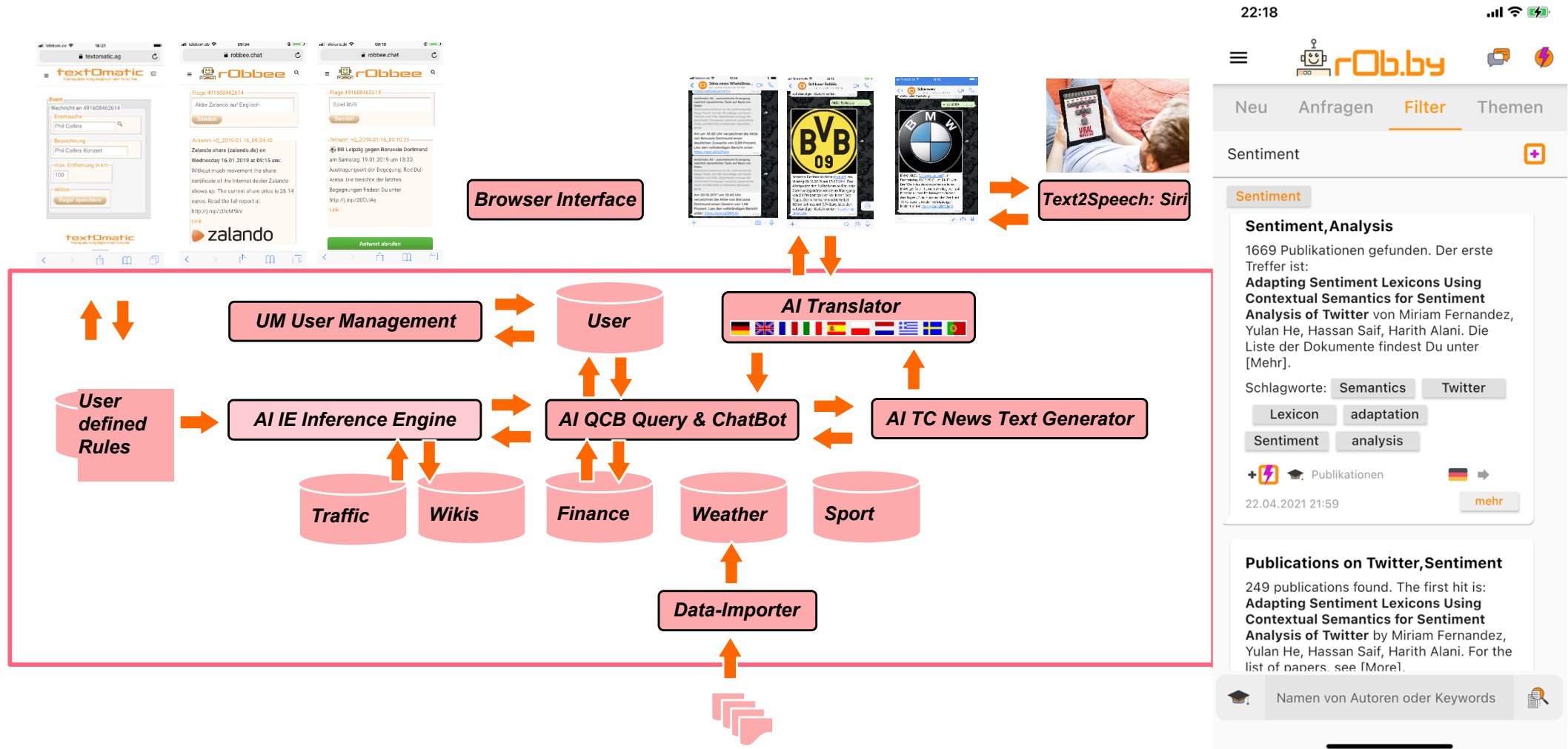


■ URL: <https://rob.by/en/App>

■ DeepL: https://en.wikipedia.org/wiki/DeepL_Translator

NAS (News Alert System) Architektur & Technologie

[ontology4.us]



- Big Data Sources for Events, Sport, Finance, Weather, Traffic , Scientific Publications

Search Example

Named Entity Recognition

- **Keywords Frequencies are displayed**
 - Entity: 1108
 - Named: 1680
 - Recognition: 19416
- **Search Algorithm**
 - Keywords are sorted by descending number of publications
 - The set of all publication Ids is retrieved
 - For more than one keyword, the intersection of the set of publication Ids is computed
- **Easy to use User Interface (UI)**
 - Click on **Keyword(s)** to start a new search
 - Click on **±** to add a keyword to search to make query more selective / precise
- **Results (311)**
 - are ordered by descending actuality

Keywords
 search

[1..5] 311 Documents found for **Entity, Named, Recognition** | Keyword frequencies (1108, 1680, 19416) [more...](#) | **+** add | **=** ignore

17.04.2021 DOI: 978-3-030-74717-6_2
+ **=** Computer,Communication,Networks
+ Yong Li | **+** Qiaoming Liu | **+** Mingyang Li | **+** Xuming Han | **+** Feng Zhou

Chinese Clinical Named Entity Recognition Based on Stroke-Level and Radical-Level Features

Clinical Named Entity Recognition (CNER) is an important step for mining clinical text. Aiming at the problem of insufficient representation of potential Chinese features, we propose the Chinese clinical named entity recognition model based on stroke level and radical level features. The model leverages Bidirectional Long Short-term Memory (BiLSTM) neural network to extract the internal semantic...

+ BiLSTM | **+** CNER | **+** Strokes | **+** Radicals | **+** Chinese features | **+** Internal semantic information

13.04.2021 DOI: 978-3-030-74251-5_8
+ **=** Algorithm,Analysis,and,Problem,Complexity
+ Jens Lehmann | **+** Piyush Chawla | **+** Asja Fischer | **+** José Marcelino | **+** Diego Esteves

HORUS-NER: A Multimodal Named Entity Recognition Framework for Noisy Data

Recent work based on Deep Learning presents state-of-the-art (SOTA) performance in the named entity recognition (NER) task. However, such models still have the performance drastically reduced in noisy data (e.g., social media, search engines), when compared to the formal domain (e.g., newswire). Thus, designing and exploring new methods and architectures is highly necessary to overcome current cha...




+ Named Entity Recognition | **+** Information Retrieval | **+** Images | **+** WNUT | **+** Text | **+** Multi-modal | **+** Noisy Text

13.04.2021 DOI: 978-3-030-74251-5_23
+ **=** Algorithm,Analysis,and,Problem,Complexity
+ François Role | **+** Mira Ait Saada | **+** Mohamed Nadif

Unsupervised Methods for the Study of Transformer Embeddings

Over the last decade neural word embeddings have become a cornerstone of many important text mining applications such as text classification, sentiment analysis, named entity recognition, question answering systems, etc. Particularly, Transformer-based contextual word embeddings have gained much attention with several works trying to understand how such models work, through the use of supervise...

+ Transformer-based language models | **+** Word embeddings | **+** Unsupervised learning



Query Types

■ Logical AND

- ▶ Entity,Named,Recognition
- ▶ Bense,Reibold,Hoppe,Humm

■ Logical OR

- ▶ Learning|Intelligence
- ▶ Schade|Siegel

■ Logical OR and AND

- ▶ Machine|Deep,Learning
- ▶ Schade|Siegel,NLP|sentiment analysis

■ Logical NOT

- ▶ ~Blockchain
- ▶ From the result set of a query those Ids a removed where the keyword ~Blockchain is assigned

■ Time

- ▶ [2020-07-01
- ▶ Retrieves only documents published from 01.07.2020 on

21:50

Regel für Publikationen ✕

Nur was dich interessiert. Hier kannst Du eine Regel für die automatische Benachrichtigungen anlegen.

Name der Regel:
NLP Sentiment Analysis

Suchbegriffe:
Schade|Siegel

NLP|Sentiment Analysis

Alle Suchbegriffe werden in der Benachrichtigung vorkommen. Alternative Suchbegriffe kannst Du z.B. so eingeben: Gewinner|Spitzenreiter
Suchbegriffen, die nicht in der Benachrichtigung vorkommen sollen, kannst Du das Zeichen ~ voranstellen, z.B. ~Barcelona

Maximale Warnungen:
5

Maximale Anzahl von Benachrichtigungen pro Tag

Speichern

■ Melanie Siegel: <https://rob.by/en/Search/Pubs/Melanie%C2%A0Siegel.html>

■ Ulrich Schade: <https://rob.by/en/Search/Pubs/Ulrich%20Schade.html>

■ Sentiment Analysis: <https://rob.by/en/Search/Pubs/Sentiment,analysis.html>

■ Schade|Siegel,NLP|sentiment analysis <https://rob.by/en/Search/Pubs/Schade|Siegel,NLP|Sentiment%20analysis.html>

Robby-App Rule Editor

■ User friendly Editors for different type of Notifications:

- Weather, Events, Snaps, etc.

■ Example: Rule Editor for Publications

21:50

Regel für Publikationen ✕

Nur was dich interessiert. Hier kannst Du eine Regel für die automatische Benachrichtigungen anlegen.

Name der Regel:
NLP Sentiment Analysis

Suchbegriffe:
Schade|Siegel

NLP|Sentiment Analysis


Alle Suchbegriffe werden in der Benachrichtigung vorkommen. Alternative Suchbegriffe kannst Du z.B. so eingeben: Gewinner|Spitzenreiter
Suchbegriffen, die nicht in der Benachrichtigung vorkommen sollen, kannst Du das Zeichen ~ voranstellen, z.B. ~Barcelona


Maximale Warnungen:
5


Maximale Anzahl von Benachrichtigungen pro Tag

Speichern





















22:03


< 

 Regeln für automatische Benachrichtigungen anlegen und bearbeiten




 Publikationen +

Wähle einen Benachrichtigungstyp für die neue Regel aus

 Ontology	1/1	  
 COVID-19	0/5	  
 NLP Sentiment Analysis	0/5	  
 Named Entity Recognition	0/3	  
 Conceptual Meta Modeling	0/3	  

Benachrichtigungsregel suchen 

22:18

≡   

Neu Anfragen **Filter** Themen

Sentiment +





Sentiment

Sentiment, Analysis

1669 Publikationen gefunden. Der erste Treffer ist:
Adapting Sentiment Lexicons Using Contextual Semantics for Sentiment Analysis of Twitter von Miriam Fernandez, Yulan He, Hassan Saif, Harith Alani. Die Liste der Dokumente findest Du unter [Mehr].

Schlagworte: **Semantics** **Twitter**



Lexicon adaptation
Sentiment analysis

+   Publikationen  

22.04.2021 21:59 mehr

Publications on Twitter, Sentiment

249 publications found. The first hit is:
Adapting Sentiment Lexicons Using Contextual Semantics for Sentiment Analysis of Twitter by Miriam Fernandez, Yulan He, Hassan Saif, Harith Alani. For the list of papers. see [More].

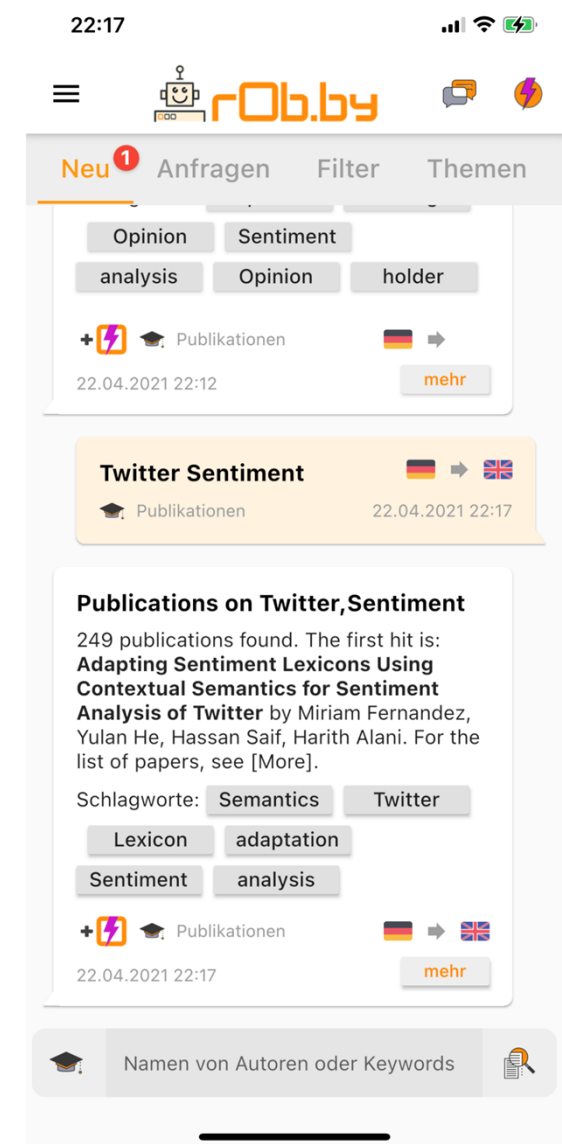
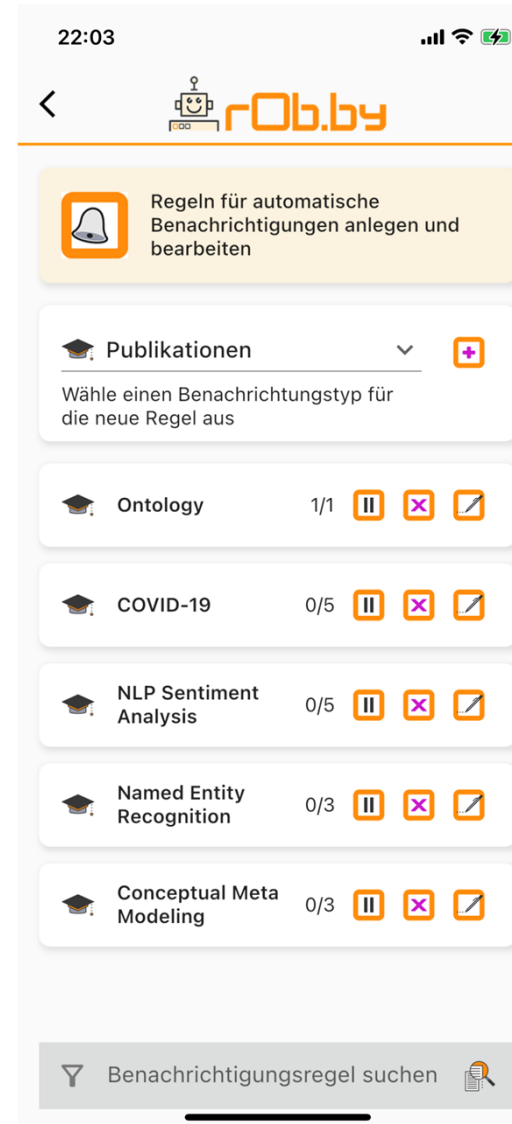
 Namen von Autoren oder Keywords 

■ URL: <https://rob.by/en/Search/Pubs/Sentiment,analysis.html>

Processing Robby-App Rule Alerts

Named Entity Recognition

- The backend rule processor of the rOb.by App permanently checks all the rules of a user.
- If a rule fires, then a notification is generated and send to the user as
 - ▶ Push alert in the rOb.by-App or
 - ▶ As E-Mail
- In the notification the user can click on **[more/mehr]** to see all results
- A single result has an URL to visit the page of the Publisher (TIB, Springer Professional etc.)



■ URL: <https://rob.by/en/Search/Pubs/Named,Entity,Recognition.html>

Robby-App Rule Alerts for Publications

Named Entity Recognition

[ontology4.us]

22:33

Regel für Publikationen

Nur was dich interessiert. Hier kannst Du eine Regel für die automatische Benachrichtungen anlegen.

Name der Regel:
Named Entity Recognition

Suchbegriffe:
Named

Entity

Recognition

Alle Suchbegriffe werden in der Benachrichtigung vorkommen. Alternative Suchbegriffe kannst Du z.B. so eingeben: Gewinner|Spitzenreiter
Suchbegriffen, die nicht in der Benachrichtigung vorkommen sollen, kannst Du das Zeichen ~ voranstellen, z.B. ~Barcelona

Maximale Warnungen:
3

Maximale Anzahl von Benachrichtigungen pro Tag

Speichern

22:06

< rOb.by

Publikationen zu Sentiment, Analysis

1669 Publikationen gefunden. Der erste Treffer ist:
Adapting Sentiment Lexicons Using Contextual Semantics for Sentiment Analysis of Twitter von Miriam Fernandez, Yulan He, Hassan Saif, Harith Alani. Die Liste der Dokumente findest Du unter [Mehr].

Schlagworte: Semantics

Twitter Lexicon

adaptation Sentiment

analysis

+ Publikationen

22.04.2021 21:59

mehr

Publikationen zu Named, Entity, Recognition

317 Publikationen gefunden. Der erste Treffer ist:
Improving Chinese Named Entity Recognition with Semantic Information of Character Multi-position Representation von Xiaonan Luo, Yanru Zhong, Chaohao Jiang, Leixian Zhao. Die Liste der Dokumente findest Du unter [Mehr].

Schlagworte: Deep

learning Multi

22:05

Fertig rob.by AA ↺

🔍 rOb.by

Wissenschaftliche Publikationen

Named, Entity, Recognition

Suchen

[1..5] 311 Documents found for **Entity, Named Entity, Recognition** | Keyword frequencies (1144, 19568) more... | + add | - ignore

17.04.2021 DOI: 978-3-030-74717-6_2

+ - Computer, Communication, Networks

+ Yong Li | + Qiaoming Liu | + Mingyang Li | + Xuming Han | + Feng Zhou

🇬🇧 Chinese Clinical Named Entity Recognition Based on Stroke-Level and Radical-Level Features

Clinical Named Entity Recognition (CNER) is an important step for mining clinical text. Aiming at the problem of insufficient representation of potential Chinese features, we

Smart Computing and Communication

URL: <https://rob.by/en/Search/Pubs/Named,Entity,Recognition.html>

Search Speed Optimization by Caching of Queries Results



- Average answer time on cached Queries is << 1 Second

- Cache Time is 30 days

- If the user uses keyword combinations, for which the cache time has expired, the cache entry is automatically updated
- This can last a few seconds to 25-30 seconds depending on the number of documents found for each search key

###~update_QC QID:> used:1


QC_Id:>QC_7I45R46M

cached  |  createQC |  updateQC Count:33

Keywords: Writer,identification

DateTime_created: 2021-04-18_11:58:29

DateTime_updated:2021-04-19_17:04:02 + CachePeriod: 0000-01-00_00:00:00 = DateTime_4_Update: 2021-05-19_17:04:02

 abgelaufen | 2021-04-23_09:53:56 > 2021-05-19_17:04:02

QC_Id:>QC_7I45R46M | ~create_QC###

###~update_QC QID:> used:18


QC_Id:>QC_7I45RVK5

cached  |  createQC |  updateQC Count:796

Keywords: Cyber,Security

DateTime_created: 2021-04-18_13:58:19

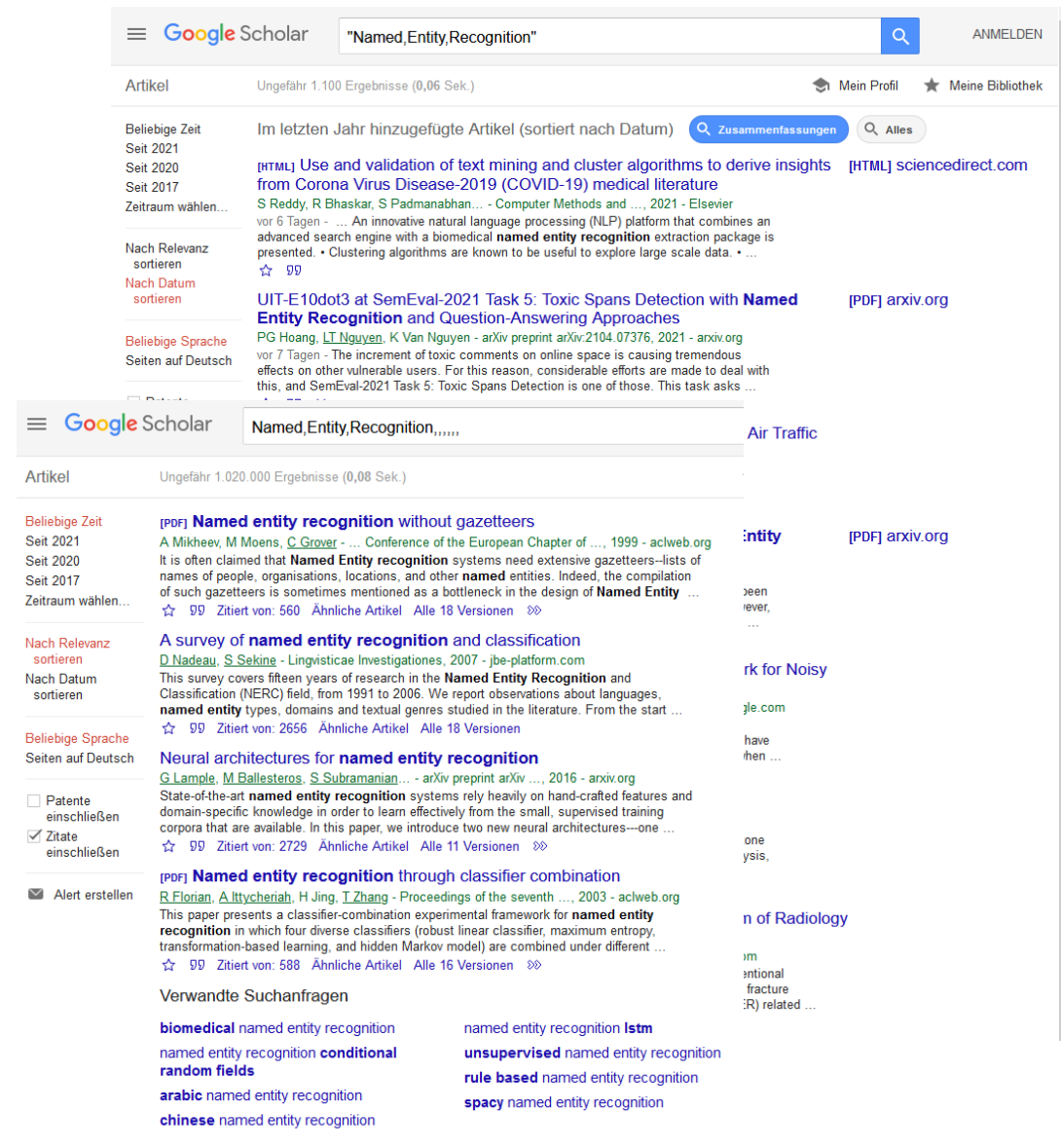
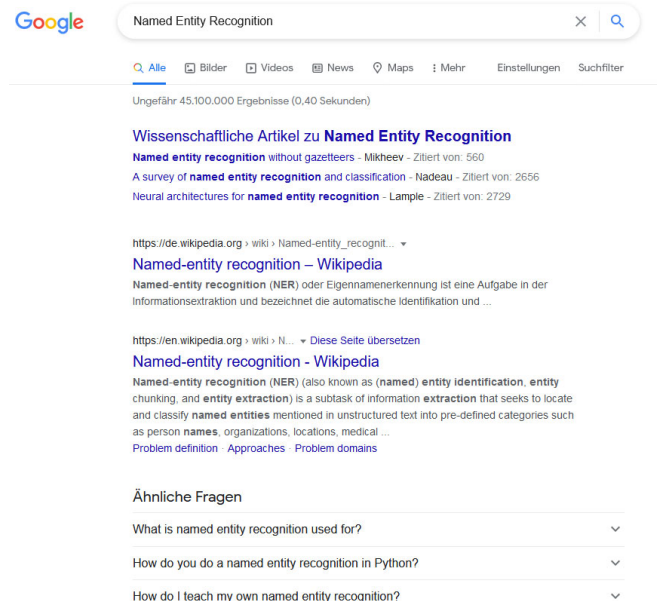
DateTime_updated:2021-04-19_19:57:20 + CachePeriod: 0000-00-01_00:00:00 = DateTime_4_Update: 2021-04-20_19:57:20

 abgelaufen | 2021-04-23_09:56:44 > 2021-04-20_19:57:20

QC_Id:>QC_7I45RVK5 | ~create_QC###

Google Scholar

- Very fast, very large corpus
- Default Setting for search: order by relevance
- No indication for
 - ▶ Publishing Date
 - ▶ Keyword Frequencies
- Google Search
 - ▶ Limited possibility to only find publications





- Prefers Patents
- Do not have Publication Dates,
 - ▶ only Publication Years

Leichte Sprache Schnellzugriff English Anmelden

TIB LEIBNIZ-INFORMATIONSZENTRUM
TECHNIK UND NATURWISSENSCHAFTEN
UNIVERSITÄTSBIBLIOTHEK

AUSLEIHEN & BESTELLEN RECHERCHIEREN & ENDECKEN LERNEN & ARBEITEN PUBLIZIEREN & ARCHIVIEREN FORSCHUNG & ENTWICKLUNG DIE TIB

! Corona-Virus: Zutritt nur mit medizinischem Mund-Nase-Schutz; Lesesäle eingeschränkt geöffnet
Bitte beachten Sie die bekannten Hygieneregeln und vermeiden Sie lange Bibliotheksbesuche!
▶ Mehr Informationen zu Öffnungszeiten, zur Ausleihe und zum Bibliotheksbesuch finden Sie in unseren FAQ

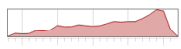
Named Entity Recognition  

☐ Nur im Bibliothekskatalog der TIB suchen [Hier geht es zum klassischen Katalog](#)

1–20 von 3.795 Ergebnissen Sortieren nach: Relevanz | [Aktualität neu zuerst](#) | [Titel A-Z](#)

Treffer filtern

Erscheinungsjahr


2000 2005 2010 2015 2020
[] - []

Medientyp

☐ Aufsatz (Konferenz) (948)
☐ Aufsatz (Zeitschrift) (911)
☐ Patent (749)
☐ Preprint (819)
☐ Aufsatz/Kapitel (Buch) (412)
[+ Mehr anzeigen](#)

Datenquelle



☐ Europäisches Patentamt (749)
☐ arXiv (517)
☐ IEEE (594)
☐ Springer Verlag (519)
☐ British Library Conference Proceedings (339)
[+ Mehr anzeigen](#)



Autor



☐ Ekbal, Asif (27)
☐ Ekbal, A. (21)
☐ Saha, Sriparna (21)
☐ Saha, S. (17)
☐ Ananiadou, Sophia (14)
...

Synonyme wurden verwendet für: **Recognition**
Suche ohne Synonyme: [Named Entity Recognition](#)

« 1 2 3 4 5 6 7 »

 **NAMED ENTITY RECOGNITION**
 Freier Zugriff
SIZEMORE ROBERT CHRISTIAN / SMITH STERLING RICHARDSON / HERBECK DAVID GERARD et al. | Europäisches Patentamt | 2019
Embodiments include methods, systems and computer program products for performing **named entity recognition**. Aspects include obtaining a
...

 **NAMED ENTITY RECOGNITION METHOD, NAMED ENTITY RECOGNITION EQUIPMENT AND MEDIUM**
 Freier Zugriff
HU FENGSHUO | Europäisches Patentamt | 2018
A **named entity recognition** method, a **named entity recognition** equipment and a medium are disclosed, the method including: acquiring a
...

 **Named entity recognition model training method and named entity recognition method**
 Freier Zugriff
GUO JIAFENG / FAN YIXING / LIU YIFEI et al. | Europäisches Patentamt | 2020
The embodiment of the invention provides a **named entity recognition** model training method and a **named entity recognition** method
...

■ URL: <https://rob.by/en/Search/Pubs/Named,Entity,Recognition.html>

Comparison with other Search Engines / Portals

Springer Professional

[ontology4.us]

- Very fast, very large corpus of 3 Mio. docs
- Default Setting for search:
 - ▶ order by relevance
- No indication for
 - ▶ Keyword Frequencies
- Sometimes
 - ▶ Online First displayed

The screenshot displays the Springer Professional search interface. At the top, there's a navigation bar with the Springer logo, a search bar, and links for 'Fachgebiete', 'Bücher', 'Zeitschriften', 'Veranstaltungen', 'Einzelzugang', 'Zugang für Unternehmen', and a 'MENÜ' button. The main content area shows search results for 'Named Entity Recognition' (23940 hits) and 'Sentiment Analysis' (37851 hits). The 'Named Entity Recognition' results include a list of papers with details like title, year, and authors. A blue box highlights a 'Zugriff auf alle Inhalte?' (Access all content?) button, indicating that the first 30 days of content are available for free. The 'Sentiment Analysis' results also show a list of papers with details like title, year, and authors. The interface is clean and professional, with a clear focus on the search results.

■ URL: <https://rob.by/en/Search/Pubs/Named,Entity,Recognition.html>

Summary

- **Google (Scholar), TIB, Springer Professional**
 - Very fast, very large corpora
 - No indication for
 - ▶ Keyword Frequencies
 - No possibility to defined rule based triggers
 - Google Alerts is Keyword based, but Search Results cannot by restricted by Actuality
 - UIs are non intuitive and require knowledge on advanced query techniques
- **rOb.by – Finding without Searching**
 - Fast, large corpus
 - Indication for
 - ▶ Keyword Frequencies
 - ▶ gives Valuable Feedback for Researchers
 - Allows to define rule based triggers
 - UI is intuitive and requires less expertise
 - Higher recall and precision based on lemmatizations and translations
- **rOb.by-App with rule-based Alerting**
 - With Deepl Multi-language Support
 - ▶ For translations
 - ▶ Group Chats
 - ▶ Query-results
 - iOS and Android platform support

- Download rOb.by-App at
 - www.rob.by/de/App

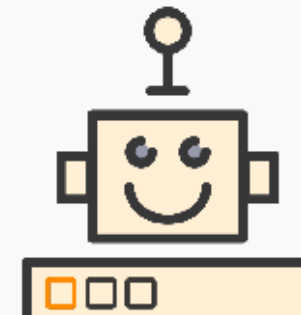



Die kostenlose rOb.by-App aus dem Apple Appstore oder von Google Play herunterladen

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