

Semantische Technologien: Status Quo und Herausforderungen für die Zukunft

Christian M. Meyer



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Kompass-Forum „Suchen – Finden – Wissenserwerb:
Erfolgreich mit semantischen Technologien“,
House of IT, Darmstadt, 20. Juni 2012.

Forschungsprofil UKP Lab

Ubiquitous Knowledge Processing Lab

Gründung 2006

Mitarbeiter 3 Professoren

20 Forscher

2 administrative Kräfte

Leitung Prof. Dr. Iryna Gurevych

Forschung Computerlinguistik und
Sprachtechnologie



UBIQUITOUS
KNOWLEDGE
PROCESSING



<http://www.ukp.tu-darmstadt.de>



Datenflut

Heterogene Infrastrukturen

Dynamische Anforderungen

Semantische Informationssuche



TECHNISCHE
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Search
Engine



Suche

Ungefähr 337.000.000 Ergebnisse (0,20 Sekunden)

Alles

Bilder

Maps

Videos

News

Shopping

Mehr

Das Web

Seiten auf Deutsch

Übersetzte Seiten

Mehr Optionen

[Jaguar Deutschland - Jaguar Cars](#)

www.jaguar.com/de/de/

5+ Einträge – Top of page. Skip to main menu. Skip to search. Skip to ...
F-TYPE Ein völlig neuer, offener Sportwagen, inspiriert durch das ...
XJ ULTIMATE Der **Jaguar** XJ Ultimate. Luxus, Handwerkskunst und ...
↳ [XF - Gebrauchtwagen](#) - [Xj modelle & preise](#) - [Konfigurator](#)

[Bilder zu jaguar](#) - Unangemessene Bilder melden



[Jaguar – Wikipedia](#)

de.wikipedia.org/wiki/Jaguar

Der **Jaguar** (*Panthera onca*) ist die größte Katze des amerikanischen Doppelkontinents. Äußerlich sieht dieses Raubtier dem Leopard der Alten Welt ähnlich.

[Jaguar Cars – Wikipedia](#)

de.wikipedia.org/wiki/Jaguar_Cars

Jaguar Cars Ltd kurz **Jaguar** (engl. Aussprache: [ˈdʒæɡjuːə] in Großbritannien, [ˈdʒæɡ.wu] in den Vereinigten Staaten), ist eine britische Automobilmarke ...

[Jaguar - Wikipedia, the free encyclopedia](#)

en.wikipedia.org/wiki/Jaguar - Diese Seite übersetzen

Lesarten-
disambiguierung

Semantische Informationssuche



TECHNISCHE
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DARMSTADT

Search
Engine

jaguar



Do you mean...

Suche

Ungefähr 337.000.000 Ergebnisse (0,20 Sekunden)

Automobil

Raubtier

Band

Militär

Das Web

Seiten auf Deutsch

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Mehr Optionen

[Jaguar Deutschland - Jaguar Cars](#)

www.jaguar.com/de/de/

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F-TYPE

Ein völlig neuer, offener Sportwagen, inspiriert durch das ...

XJ ULTIMATE Der **Jaguar** XJ Ultimate. Luxus, Handwerkskunst und ...

↳ [XF - Gebrauchtwagen](#) - [Xj modelle & preise](#) - [Konfigurator](#)

[Jaguar Österreich - Jaguar Cars AT](#)

www.jaguar.com/at/de/

5+ Einträge – XJ ULTIMATE. Das neue Flaggschiff von **Jaguar**. Der XJ ...

F- TYPE

Ein völlig neues Sport-Cabriolet, inspiriert durch das ...

How alive are you Werden Sie Teil einer neuen Generation von **Jaguar** ...

[Jaguar Switzerland - Jaguar.ch](#)

www.jaguar.com/ch/de/

Jaguar hat eine Mission: wunderschöne schnelle Fahrzeuge zu entwerfen und zu bauen. Der XK, XF und der neue XJ garantieren unübertroffene Fahrfreude.

[Jaguar International - Market selector page](#)

www.jaguar.com/ - [Diese Seite übersetzen](#)

Official worldwide web site of **Jaguar** Cars. Directs users to pages tailored to country-specific markets and model-specific websites.

[Jaguar Cars – Wikipedia](#)

de.wikipedia.org/wiki/Jaguar_Cars

Jaguar Cars Ltd kurz **Jaguar** (engl. Aussprache: [ˈdʒæɡjuːə] in Großbritannien, [ˈdʒæɡ.wɑː] in den Vereinigten Staaten), ist eine britische Automobilmarke ...

Clusterbildung,
Lexikonvergleich,
Intelligentes
User-Interface,

...

Semantische Informationssuche



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Search Engine

jaguar

Suche

Ungefähr 3.000 Ergebnisse (0,20 Sekunden)

Automobil

Raubtier

Band

Militär

Das Web

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Mehr Optionen

Jaguar Deutschland - Jaguar Cars

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F-TYPE Ein völlig neuer, offener Sportwagen, inspiriert durch das ...

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↳ XF - Gebrauchtwagen - Xj modelle & preis Konfigurator

Jaguar Österreich - Jaguar C

www.jaguar.com/at/de/

5+ Einträge – XJ ULTIMATE. Das n

F- TYPE Ein völlig neues

How alive are you Werden Sie Teil

Jaguar Switzerland - Jaguar

www.jaguar.com/ch/de/

Jaguar hat eine Mission: wundersch

bauen. Der XK, XF und der neue XJ

Jaguar International - Market

www.jaguar.com/ - Diese Seite über

Official worldwide web site of **Jagua**

specific markets and model-specific

Jaguar Cars – Wikipedia

de.wikipedia.org/wiki/Jaguar_Cars

Jaguar Cars Ltd kurz **Jaguar** (engl.

[ˈdʒæɡ.wɑː] in den Vereinigten Staaten), ist eine britische Automobilmarke ...

WIKIPEDIA

The Free Encyclopedia

Main page

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Article Talk

Swallow Sidecar Company

From Wikipedia, the free encyclopedia

The **Swallow Sidecar Company** was founded on 4 September 1922 by **Walmsley** (b. 1892) and **William Lyons** (b. 1901). Both families lived in **Blackpool**, England. Walmsley had previously been making **sidecars** and reconditioned motorcycles. Lyons had served his apprenticeship at **Cr** Manchester before moving to Brown and Mallalieu as a junior salesman. Lyons, having recognised the commercial potential for these sidecars, together they obtained premises in Blackpool with the assistance of a small team of employees they were able to begin commercial production of sidecars.^[2]

The company diversified in 1926, changing its name to the **Swallow**

Synonyme,
orthogr. Varianten,
verwandte Begriffe,...

Question Answering



TECHNISCHE
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Search
Engine

Wo kann man in Frankfurt einen Jaguar kaufen?

Suche

Automobil

Raubtier

Band

Militär

Das Web

Seiten auf Deutsch
Übersetzte Seiten

Mehr Optionen

[Impressum](#)

Muck Automobile GmbH

Herr Muck
Victor Slotosch Str. 26
60388 Frankfurt am Main

Suchen Sie in unserem Fahrzeugbestand

Marke Modell Kraftstoff Preis bis

1 bis 4 von 4 Fahrzeugen

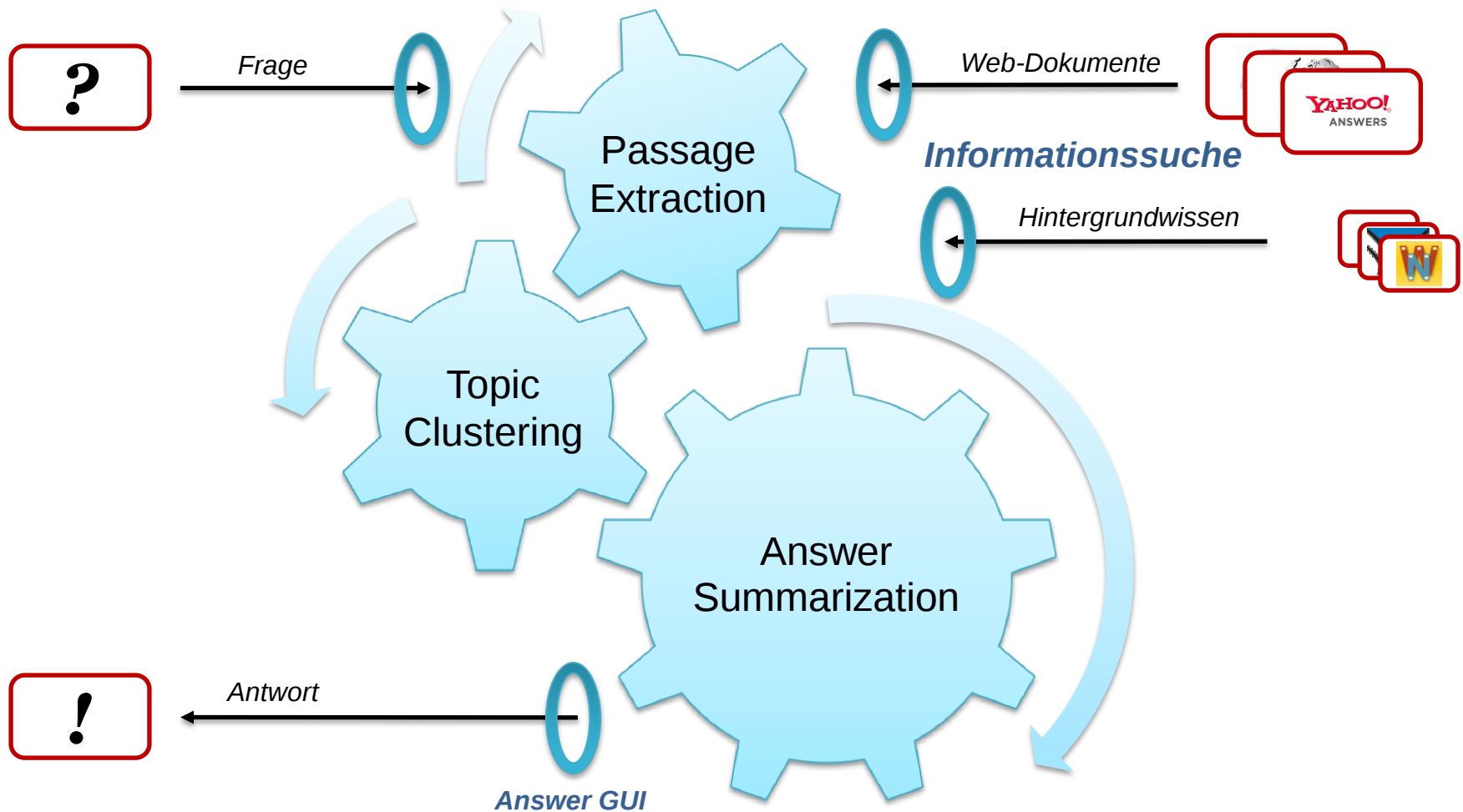


	Marke / Modell	Aufbau / Farbe	EZ	Laufleistung	Preis
	Jaguar XJ6 3.0 Executive Details Zu den Favoriten Kraftstoffverbr. (komb./innerorts/außerorts): 10.5/15.6/7.4 l/100km*, CO2-Emissionen komb.: 249 g/km, CO2-Effizienz: G	Limousine, 4-Türer schwarz	Mai 2003	317000 km	EUR 9990 MwSt. ausw.
	Jaguar XJR Leder Exclusiv / Navi / Xenon Details Zu den Favoriten Kraftstoffverbr. (komb./innerorts/außerorts): 12.1/17.9/8.7 l/100km*, CO2-Emissionen komb.: 289 g/km, CO2-Effizienz: G	Limousine, 4-Türer schwarz	Mai 2004	84150 km	EUR 22490 MwSt. ausw.
	Jaguar XK 3.5 L V8 Coupe CATS Fahrwerk/Navigation/ Details Zu den Favoriten Kraftstoffverbr. (komb./innerorts/außerorts): 11.3/17.2/8.1 l/100km*, CO2-Emissionen komb.: 269 g/km, CO2-Effizienz: G	Coupé, 2-Türer schwarz	August 2007	56000 km	EUR 35900 MwSt. ausw.
	Jaguar XK 4.2 Cabrio Details Zu den Favoriten	Cabrio, 2-Türer grau	Juli 2007	49000 km	EUR 41900

* Weitere Informationen zum offiziellen Kraftstoffverbrauch und den offiziellen spezifischen CO₂-Emissionen neuer Personenkraftwagen können dem "Leitfaden über den Kraftstoffverbrauch, die CO₂-Emissionen und den Stromverbrauch neuer Personenkraftwagen" entnommen werden, der an allen Verkaufsstellen und bei der [Deutschen Automobil Treuhand GmbH \(DAT\)](#) unentgeltlich erhältlich ist.

Zusammenfassung,
Tabellen, Fakten,
Abbildungen,...
statt Linkliste

Question Answering



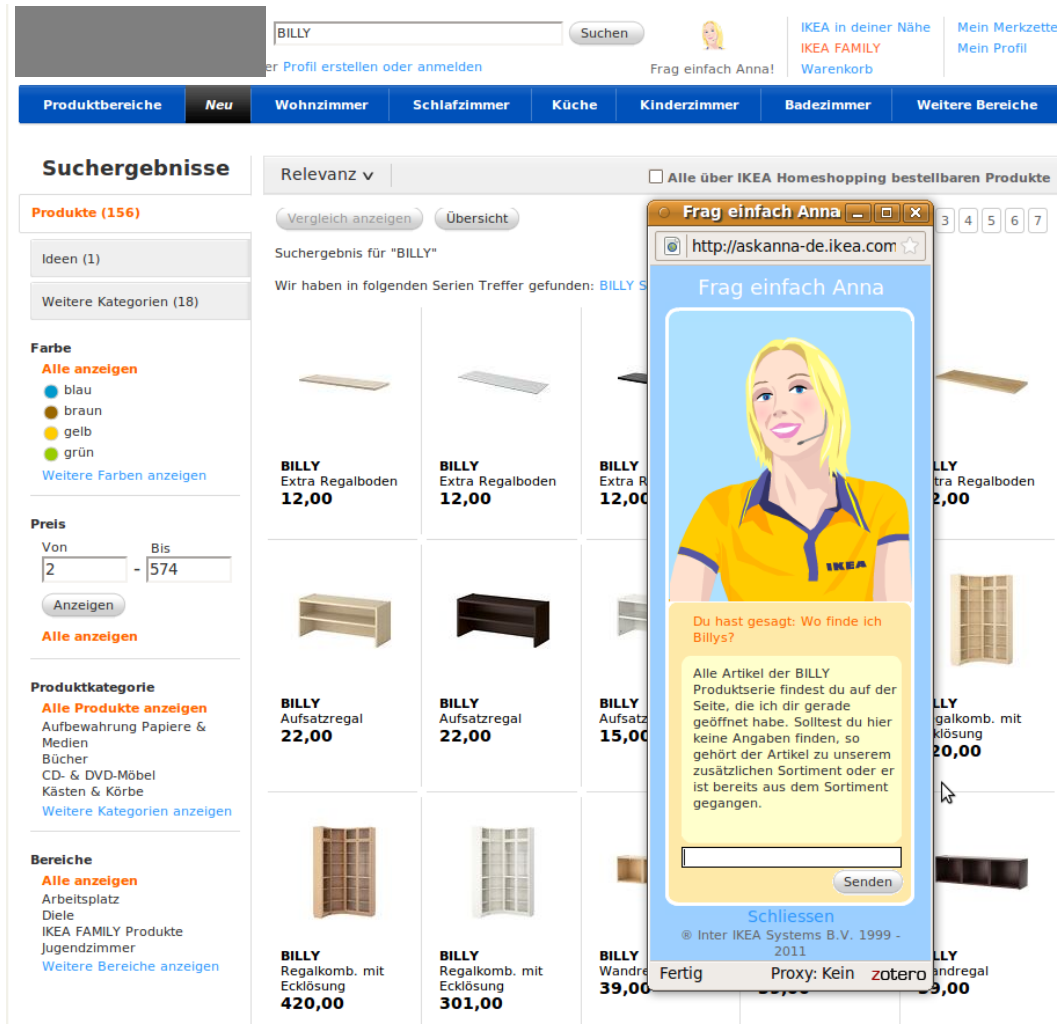
Question Answering



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Question Answering



The screenshot shows the IKEA Germany website search results for the keyword "BILLY". The search bar at the top contains "BILLY" and the "Suchen" button. Below the search bar, there are navigation tabs for different product categories: Produktbereiche, Neu, Wohnzimmer, Schlafzimmer, Küche, Kinderzimmer, Badezimmer, and Weitere Bereiche. The search results are displayed in a grid, showing various BILLY products like "Extra Regalboden", "Aufsatzregal", and "Regalkomb. mit Ecklösung". A chat window titled "Frag einfach Anna" is overlaid on the search results, showing a cartoon character of a woman in a yellow IKEA shirt. The chat window contains the text: "Du hast gesagt: Wo finde ich Billys? Alle Artikel der BILLY Produktserie findest du auf der Seite, die ich dir gerade geöffnet habe. Solltest du hier keine Angaben finden, so gehört der Artikel zu unserem zusätzlichen Sortiment oder er ist bereits aus dem Sortiment gegangen." and a "Senden" button. The chat window also shows the URL "http://askanna-de.ikea.com" and the text "Schliessen".

Wie geht es dir?

Danke, mir geht es gut und ich freue mich auf deine Frage.

Wo gibt es Billys?

Alle Artikel der BILLY Produktserie findest du auf der Seite, die ich dir gerade geöffnet habe. Solltest du hier keine Angaben finden, so gehört der Artikel zu unserem zusätzlichen Sortiment oder er ist bereits aus dem Sortiment gegangen.

Keyphrase Extraction



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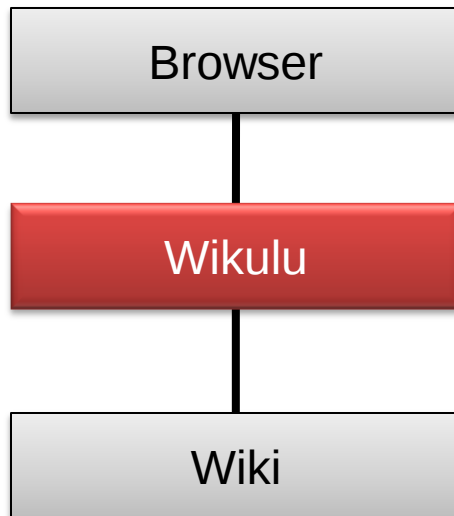
CHICAGO, Oct 29 - Kraft Foods Inc and Kellogg Co posted better-than-expected third-quarter profits on Wednesday as price increases and new products helped lift sales in a weak economy. Kraft also stood by its forecasts for 2008 earnings before one-time items as well as for 2009 net income, while Kellogg said its profit this year should hit the high end of its previous targeted range. Both Kraft, the largest North American food maker, and Kellogg, the world's largest cereal company, have taken steps to cut costs and put more money into advertising. Both have also bolstered new product development to attract consumers even as rising commodity costs pushed them to raise prices. Commodities like wheat and energy have become less expensive in recent months, but food companies may not see a big benefit until next year, in part because they lock in their costs months ahead. Kraft, which makes Oreo cookies, Tang breakfast drink and Oscar Mayer hot dogs, reported a profit of 45 cents a share before one-time items, a penny above what analysts polled by Reuters Estimates had expected. The company hiked prices on products, leading to a 0.9 percent drop in volume. However, that key result was still better than the company had expected. Analysts are watching to see how much consumers cut back on buying branded products in the face of rising food prices and a slumping economy. Kraft sales rose 19.4 percent to \$10.46 billion. Organic sales, which exclude the impact of currency, acquisitions and divestitures, rose 7.1 percent due to higher pricing. Over the past several years, Kraft has closed factories, cut jobs and divested brands to focus on areas like cookies and crackers, pizza and healthier foods. Shares of Kraft rose 1.8 percent to \$29.39 in premarket trading from Tuesday's closing price of \$28.88 on the New York Stock Exchange, while Kellogg stock was not active. Kellogg, the maker of Rice Krispies and Eggo waffles, said net income rose to 89 cents a share from 76 cents a year earlier. The results were far better than the 80 cents analysts had forecast.

Keyphrase Extraction



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CHICAGO, Oct 29 - Kraft Foods Inc and Kellogg Co posted better-than-expected third-quarter profits on Wednesday as price increases and new products helped lift sales in a weak economy. Kraft also stood by its forecasts for 2008 earnings before one-time items as well as for 2009 net income, while Kellogg said its profit this year should hit the high end of its previous targeted range. Both Kraft, the largest North American food maker, and Kellogg, the world's largest cereal company, have taken steps to cut costs and put more money into advertising. Both have also bolstered new product development to attract consumers even as rising commodity costs pushed them to raise prices. Commodities like wheat and energy have become less expensive in recent months, but food companies may not see a big benefit until next year, in part because they lock in their costs months ahead. Kraft, which makes Oreo cookies, Tang breakfast drink and Oscar Mayer hot dogs, reported a profit of 45 cents a share before one-time items, a penny above what analysts polled by Reuters Estimates had expected. The company hiked prices on products, leading to a 0.9 percent drop in volume. However, that key result was still better than the company had expected. Analysts are watching to see how much consumers cut back on buying branded products in the face of rising food prices and a slumping economy. Kraft sales rose 19.4 percent to \$10.46 billion. Organic sales, which exclude the impact of currency, acquisitions and divestitures, rose 7.1 percent due to higher pricing. Over the past several years, Kraft has closed factories, cut jobs and divested brands to focus on areas like cookies and crackers, pizza and healthier foods. Shares of Kraft rose 1.8 percent to \$29.39 in premarket trading from Tuesday's closing price of \$28.88 on the New York Stock Exchange, while Kellogg stock was not active. Kellogg, the maker of Rice Krispies and Eggo waffles, said net income rose to 89 cents a share from 76 cents a year earlier. The results were far better than the 80 cents analysts had forecast.



WIKIPEDIA The Free Encyclopedia

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▼ Wikulu

Suggest Links

Highlight Keyphrases

Suggest Sections

Summarize

Add Content...

► Interaction



Screencast und weitere Informationen:

<http://www.ukp.tu-darmstadt.de/research/current-projects/wikulu/>

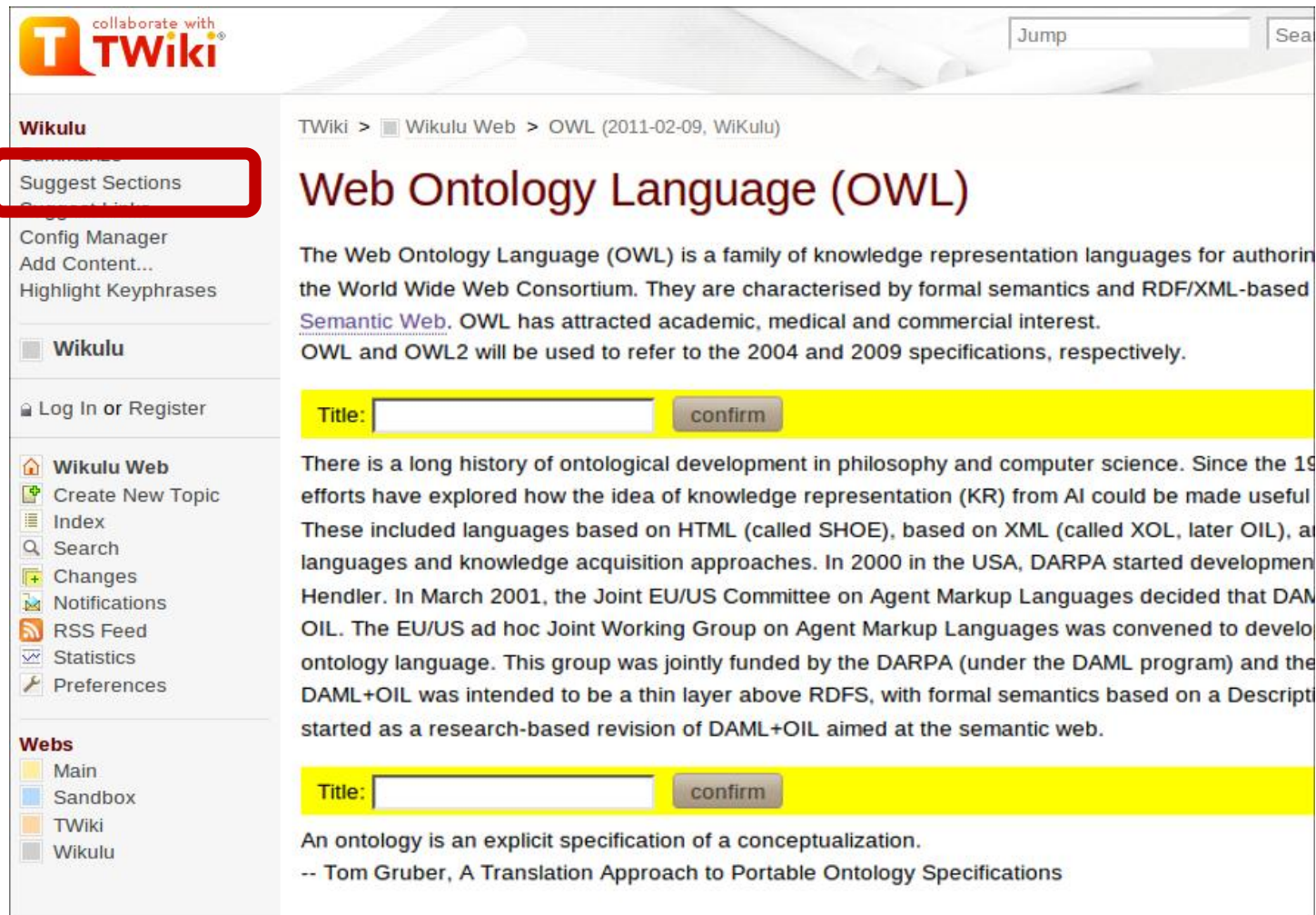
Keyphrase Extraction



TECHNISCHE
UNIVERSITÄT
DARMSTADT

The screenshot shows the Wikipedia article for 'Linguistics'. The left sidebar contains the Wikipedia logo and navigation links. A red box highlights the Wikulu sidebar menu, which includes links for 'Suggest Links', 'Highlight Keyphrases', 'Suggest Sections', 'Summarize', and 'Add Content...'. The main content area shows the article title 'Linguistics' and the text: 'This article is about the field of **study**. For the journal, see [Linguistics \(journal\)](#). **Linguistics** is the scientific **study** of human **language**.^{[1][2][3][4]} **Linguistics** can be broadly broken into three categories or subfields: the **study** of **language** form, of **language meaning**, and of **language** in context. The first is the **study** of **language** structure, or [grammar](#). This focuses on the systems of rules that are followed by **speakers** or a **language**. It encompasses [morphology](#) (the formation and composition of **words**), [syntax](#) (the formation and composition of phrases and sentences from these **words**), and [phonology](#) (sound systems). [Phonetics](#) is a related branch of **linguistics** concerned with the actual properties of **speech** sounds, non**speech** sounds, and how they are produced and perceived. The **study** of **language meaning** is concerned with how **language** users make the inferences required to understand another's **speech**, how **meaning** is assigned and processed, and ambiguity. This subfield encompasses [semantics](#) (how **meaning** is inferred from **words** and concepts) and [pragmatics](#) (how **meaning** is inferred from context).

Textsegmentierung



The screenshot shows the TWiki web interface. The left sidebar contains navigation links: 'Wikulu' (highlighted with a red box), 'Suggest Sections', 'Config Manager', 'Add Content...', 'Highlight Keyphrases', 'Log In or Register', 'Wikulu Web', 'Create New Topic', 'Index', 'Search', 'Changes', 'Notifications', 'RSS Feed', 'Statistics', 'Preferences', 'Webs', 'Main', 'Sandbox', 'TWiki', and 'Wikulu'. The main content area displays the title 'Web Ontology Language (OWL)' and a paragraph describing it as a family of knowledge representation languages. Below the text are two yellow input fields with 'Title:' labels and 'confirm' buttons. The top field is empty, and the bottom field contains the text 'An ontology is an explicit specification of a conceptualization. -- Tom Gruber, A Translation Approach to Portable Ontology Specifications'.

collaborate with
TWiki

Wikulu

Suggest Sections

Config Manager
Add Content...
Highlight Keyphrases

Wikulu

Log In or Register

Wikulu Web

Create New Topic

Index

Search

Changes

Notifications

RSS Feed

Statistics

Preferences

Webs

Main

Sandbox

TWiki

Wikulu

TWiki > Wikulu Web > OWL (2011-02-09, Wikulu)

Web Ontology Language (OWL)

The Web Ontology Language (OWL) is a family of knowledge representation languages for authoring the World Wide Web Consortium. They are characterised by formal semantics and RDF/XML-based [Semantic Web](#). OWL has attracted academic, medical and commercial interest. OWL and OWL2 will be used to refer to the 2004 and 2009 specifications, respectively.

Title: confirm

There is a long history of ontological development in philosophy and computer science. Since the 1950s, efforts have explored how the idea of knowledge representation (KR) from AI could be made useful. These included languages based on HTML (called SHOE), based on XML (called XOL, later OIL), and other languages and knowledge acquisition approaches. In 2000 in the USA, DARPA started development of the OWL. In March 2001, the Joint EU/US Committee on Agent Markup Languages decided that DAML+OIL. The EU/US ad hoc Joint Working Group on Agent Markup Languages was convened to develop an ontology language. This group was jointly funded by the DARPA (under the DAML program) and the DAML+OIL was intended to be a thin layer above RDFS, with formal semantics based on a Description Logic. It started as a research-based revision of DAML+OIL aimed at the semantic web.

Title: confirm

An ontology is an explicit specification of a conceptualization.
-- Tom Gruber, A Translation Approach to Portable Ontology Specifications

Link Detection



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collaborate with
TWiki

Wikulu
Summarize
Suggest Sections
Suggest Links
Add Content...
Highlight Keyphrases

Wikulu

Log In or Register

Wikulu Web
Create New Topic
Index
Search
Changes
Notifications
RSS Feed
Statistics
Preferences

Webs
Main
Sandbox
TWiki
Wikulu

Jump Search

Wikulu > Wikulu Web > OWL (2011-02-09, Wikulu)

Web Ontology Language (OWL)

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In October 2007, a new W3C working group was started to extend OWL with several new features as p 1.1 member submission. This new version, called OWL 2, soon found its way into semantic editors such semantic reasoners such as Pellet, RacerPro and FaCT++. W3C announced the new version on 27 Oc family contains many species, serializations, syntaxes and specifications with similar names.

OWL and OWL2 will be used to refer to the 2004 and 2009 specifications, respectively.

There is a long history of ontological development in **philosophy** and **computer science**. Since the research efforts have explored how the idea of **knowledge representation** (KR) from **AI** could be n World Wide Web. These included languages based on HTML (called SHOE), based on XML (called XO various frame-based KR languages and knowledge acquisition approaches. In 2000 in the USA, DARPA of **DAML** led by James Hendler. In March 2001, the Joint EU/US Committee on **Agent Markup Language** **DAML** should be merged with **OIL**. The EU/US ad hoc Joint Working Group on **Agent Markup Language** convened to develop **DAML+OIL** as a web ontology language. This group was jointly funded by th **DAML** program) and the EU's IST funding project. **DAML+OIL** was intended to be a thin layer a semantics based on a Description Logic (DL). OWL started as a research-based revision of **DAML+OIL** semantic web.

Automatisierte Zusammenfassung



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The screenshot shows the TWiki web interface. At the top left is the TWiki logo with the text 'collaborate with TWiki'. To the right is a search bar with 'Jump' and 'Search' buttons. Below the logo, a sidebar contains a list of actions: 'Summarize' (highlighted with a red box), 'Suggest Links', 'Config Manager', 'Add Content...', and 'Highlight Keyphrases'. Below these are sections for 'Wikulu' (with a 'Log In or Register' link), 'Wikulu Web' (with links to 'Create New Topic', 'Index', 'Search', 'Changes', 'Notifications', 'RSS Feed', 'Statistics', and 'Preferences'), and 'Webs' (with links to 'Main', 'Sandbox', 'TWiki', and 'Wikulu'). The main content area shows the breadcrumb 'TWiki > Wikulu Web > OWL (2011-02-09, WiKulu)' and a large heading 'Summary'. Below the heading is a bulleted list: 'Web Ontology Language (OWL) The Web Ontology Language (OWL) is a family of knowl for authoring ontologies endorsed by the World Wide Web Consortium.', 'The OWL family contains many species, serializations, syntaxes and specifications with si', 'OWL and OWL2 will be used to refer to the 2004 and 2009 specifications, respectively.', 'An ontology is an explicit specification of a conceptualization.-- Tom Gruber, A Translation Specifications In computer science and information science, an ontology is a formal repre set of concepts within a domain and the relationships between those concepts.', 'It is used to reason about the properties of that domain, and may be used to describe the', and 'Differences between the two are largely matters of focus.'. Below the list are links: 'Edit', 'Attach', 'Print version', 'History: r40 < r39 < r38 < r37 < r36', 'Backlinks', and 'Raw View'. At the bottom, it says 'Topic revision: r40 - 2011-02-09 - 15:10:47 - WiKulu'.

Machine Translation



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Translate

From: English ▼



To: Chinese (Traditional) ▼

Translate

English Chinese Turkish

I'm selling these fine leather jackets.



Turkish Chinese (Traditional) English

我賣的這些精美的皮夾克。

New! Hold down the shift key, click, and drag the words above to reorder. [Dismiss](#)

Recommender Systems



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apotheken^{room}
Gesundheit frei Haus

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Passwort

Login

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Opinion Mining



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[Nerven bewahren!](#)

[Ohren schützen gegen VUVUZELA](#)

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BEWERTUNGEN / ERFAHRUNGEN UNSERER KUNDEN:



ASPIRIN plus C Brausetabl. 40 St



Für Kinder sind die ASPIRIN plus C Brausetabletten die optimale Lösung. Meine Tochter ist nun 10 Jahre alt und macht immer ein großes Theater, wenn sie eine Tablette schlucken soll. Sie würgt und weint, bekommt die Dinger einfach nicht hinunter. Mit den Brausetabletten ist das Problem gelöst. Ich gebe das Arzneimittel gerne bei Erkältung, meine Tochter leidet dann meist unter den typischen Symptomen wie Kopfschmerzen oder Fieber. Zudem tut das zugesetzte Vitamin C dem geschwächten Immunsystem gut und sie kommt schneller wieder auf die Beine.

2 von 4 Kunden fanden diese Bewertung hilfreich



Bewertung hilfreich

Bewertung hilfreich?



ASPIRIN plus C Brausetabl. 40 St



Ich schlucke ungerne Tabletten oder Kapseln, deshalb bin ich mit den Brausetabletten von ASPIRIN plus C sehr zufrieden. Einfach im Wasser auflösen, trinken und fertig. Ich gebe gerne ein paar Euro mehr aus, denn bei Aspirin plus C kann ich mich dann auch einfach drauf verlassen, dass das Medikament tatsächlich hilft.

45 von 92 Kunden fanden diese Bewertung hilfreich

Fanden Sie diese Bewertung hilfreich?



diese Bewertung hilfreich

Bewertung hilfreich?



ASPIRIN plus C Brausetabl. 40 St



Zu Aspirin C muss man wohl nicht viel sagen, kennt ja jeder :-). Ich verwende es sehr gerne wenn ich erkältet bin. Die Brausetabletten haben einen akzeptablen Geschmack und sie wirken sehr gut gegen Kopfweh und Gliederschmerzen.

Star-Ratings

Beyond the stars...

ASPIRIN plus C Brausetabl. 40 St 

Die Brausetabletten schmecken nicht so nach Pappe wie andere Brausetabletten aber was noch viel wichtiger ist: Sie helfen besonders gut. Vor allem bei Kopfschmerz.

- Produkt-Features erkennen
 - z.B. Handy: Tastatur, Bildschirm, Akku, Anschlüsse,...
- Positive/Negative Meinungen identifizieren
 - z.B. zu klein vs. kompakt; robust vs. klobig,...

Nutzergenerierte Daten



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Meistbesuchte Seiten:

1. Google
2. Facebook
3. YouTube
4. Yahoo!
5. Baidu
6. Wikipedia
7. Windows Live
8. Twitter
9. QQ.com
10. Amazon

how do I open a door? × Suche

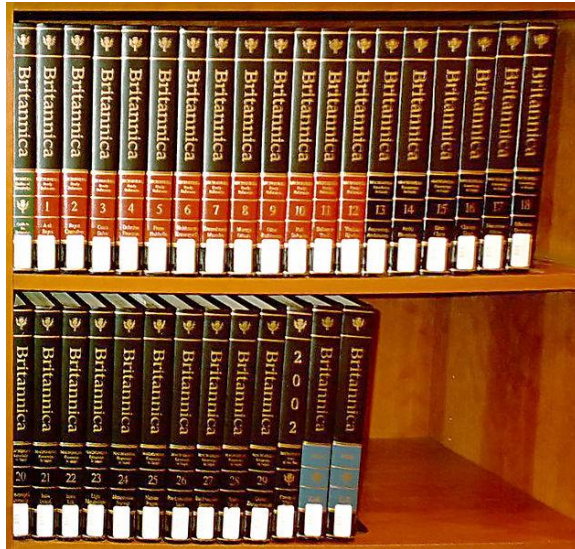
Ungefähr 172.000.000
Ergebnisse (0,20 Sekunden)

[How to Open a Door with a Credit Card - wikiHow](#)
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30 May 2011 ... wikiHow article about How to **Open a Door**
with a Credit Card.
www.wikihow.com > . > Locks and Keys -
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► [How do I open a door with no handle?!? - Yahoo! Answers](#) [Diese Seite übersetzen]
2 Antworten - 29. Juni 2006
I'm house sitting for my sister and I accidentally closed a
broken ... Please post a picture. You haven't provided enough
information about the ...
answers.yahoo.com/question/index?qid... - Vereinigte
Staaten - Im Cache

[How do I open a unopened door thats not locked?](#) - 12.
Okt. 2010
[How do I open a self-cleaning oven door?](#) - 29. Juli 2009
[How do I open a creaky door without it creaking.?](#) - 17.
Juni 2006
[How do I open a door accidently locked from the inside?](#)
- 23. Apr. 2006
Weitere Ergebnisse von [answers.yahoo.com](#) »

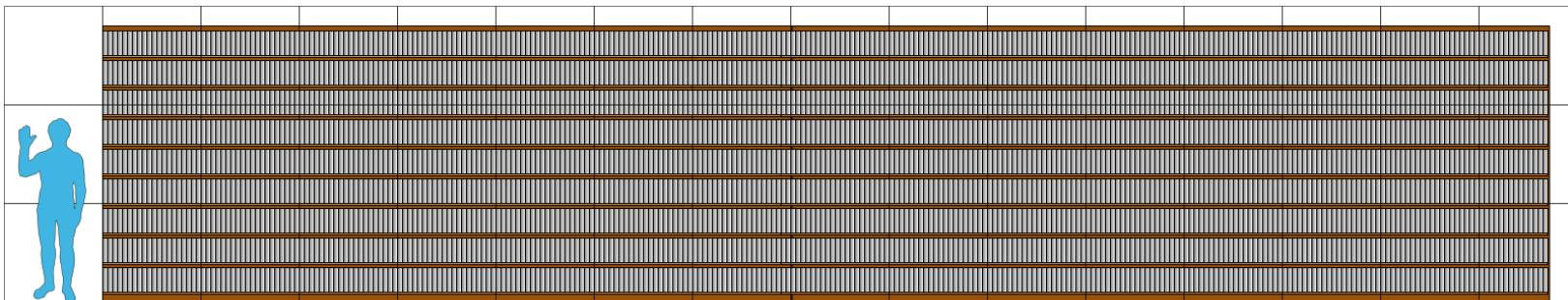
Nutzergenerierte Daten



Encyclopædia Britannica
32 volumes

VS.

Wikipedia
≈2647 volumes



Encyclopædia Britannica

Text Mining

VS.

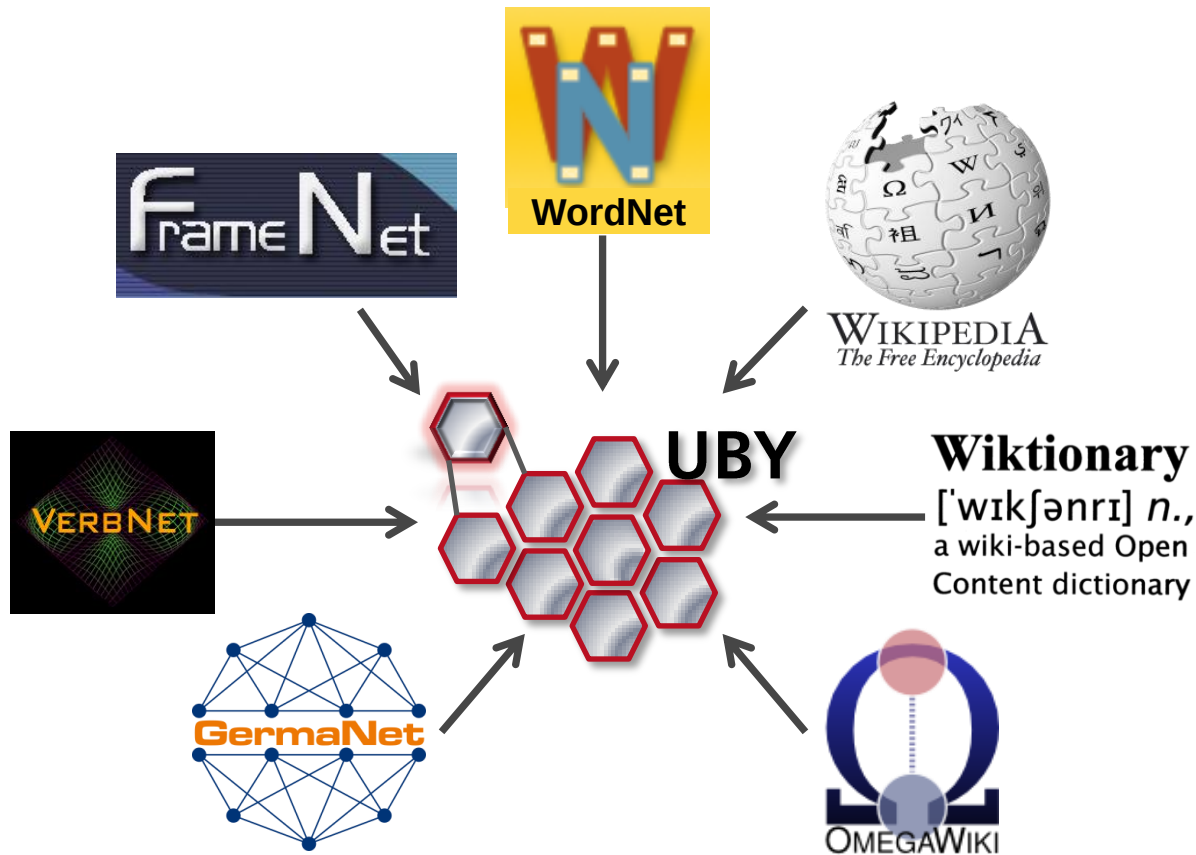
Ressourcenintegration

≈2647 volumes

Standardisierte Modelle



Large-Scale Unified Lexical-Semantic Resource

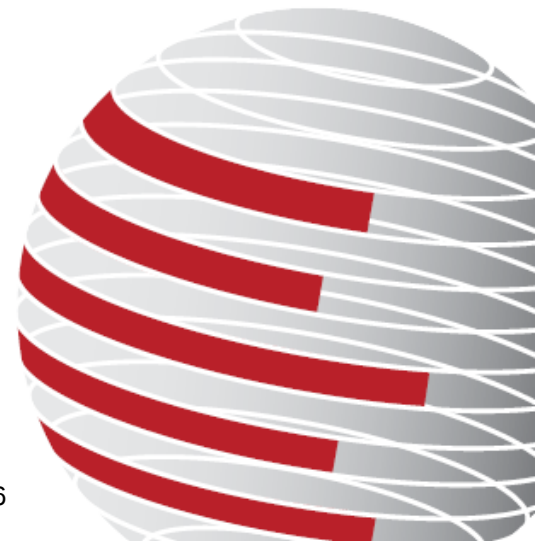


<http://www.ukp.tu-darmstadt.de/uby/>



Vielen Dank für die Aufmerksamkeit!

<http://www.ukp.tu-darmstadt.de>





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