



Künstliche Intelligenz + Mensch:
Zusammen unschlagbar!

Reinhard Karger | Unternehmenssprecher 

Follow me on Twitter @reinhardkarger www.dfki.de

The central part of the slide features a background image of a red industrial robot arm in a factory. Overlaid on this image is a semi-transparent white box containing text. The text is centered and reads 'Künstliche Intelligenz + Mensch: Zusammen unschlagbar!'. Below this text, there are several colorful triangles (blue, red, green, orange) pointing in various directions. At the bottom of the white box, there is a small diagram showing three factory buildings connected by arrows, with a truck icon in between. The bottom of the slide contains contact information for Reinhard Karger, including his title 'Unternehmenssprecher', the DFKI logo, his Twitter handle '@reinhardkarger', and the website 'www.dfki.de'.

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Die Gesellschafter der DFKI GmbH



















































Im Beitrittsprozess zum DFKI Gesellschafterkreis befindliche Unternehmen:





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Lernende Systeme
DIE PLATTFORM FÜR KÜNSTLICHE INTELLIGENZ

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<https://www.plattform-lernende-systeme.de/videos.html>

Eine kurze Geschichte der KI

Künstliche Intelligenz (KI) seit ihren Anfängen: Unser Erklärfilm illustriert verschiedene Phasen der Technologieentwicklung. Meilensteine bei KI-Anwendungen sowie künftige Herausforderungen.

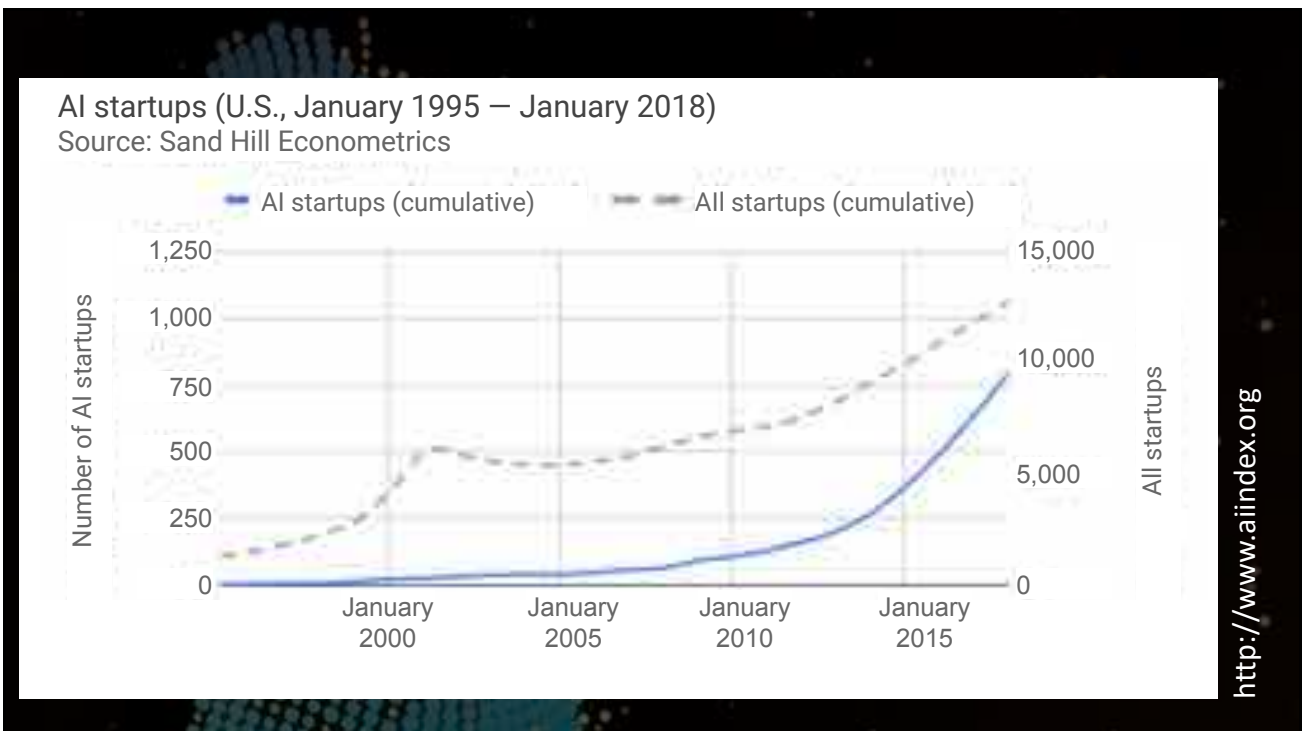


„Wo wollen wir hin?
Die Gesellschaft der Zukunft ist
eine Gesellschaft freier,
selbstbestimmter Menschen...

...während im Hintergrund
nimmermüde intelligente
Maschinen den Volkswohlstand
erwirtschaften.“
(Abschied vom Monetozän)

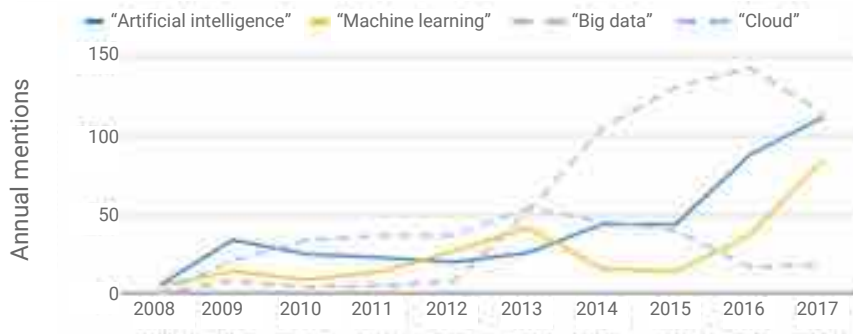
<https://www.randomhouse.de/Buch/Jaeger-Hirten-Kritiker/Richard-David-Precht/Goldmann/e542926.rhd>





Company earnings calls mentions – Sum of other industries (2008–2017)

Source: Prattle



Top 10 companies – AI mentions (2017)

NVIDIA Corporation (93), LivePerson (50), Pegasystems (44), Facebook (40), Axon Enterprise (37), salesforce.com (36), Intel Corporation (35), Microsoft Corporation (34), Genpact Limited (34), Applied Materials (33)

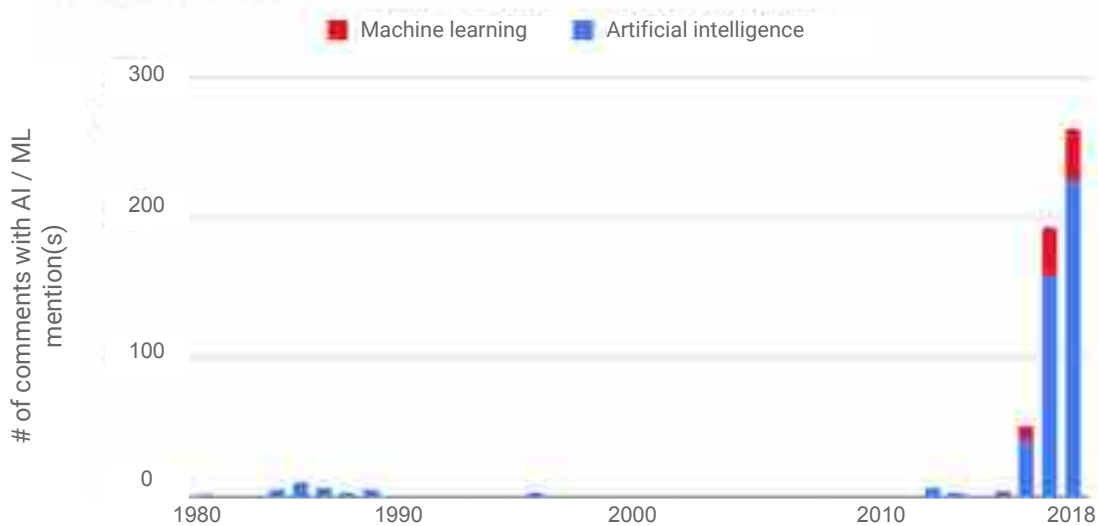
Top 10 companies – ML mentions (2017)

Alphabet(57), Nasdaq (26), ServiceNow (21), Progress Software Corporation (21), Cadence Design Systems, Inc. (20), Splunk Inc. (18), Twitter (17), Overstock.com (14), Synopsys, Inc. (14), Aspen Technology (14)

<http://www.aiindex.org>

AI and ML mentions in U.K. Parliament (1980–2018)

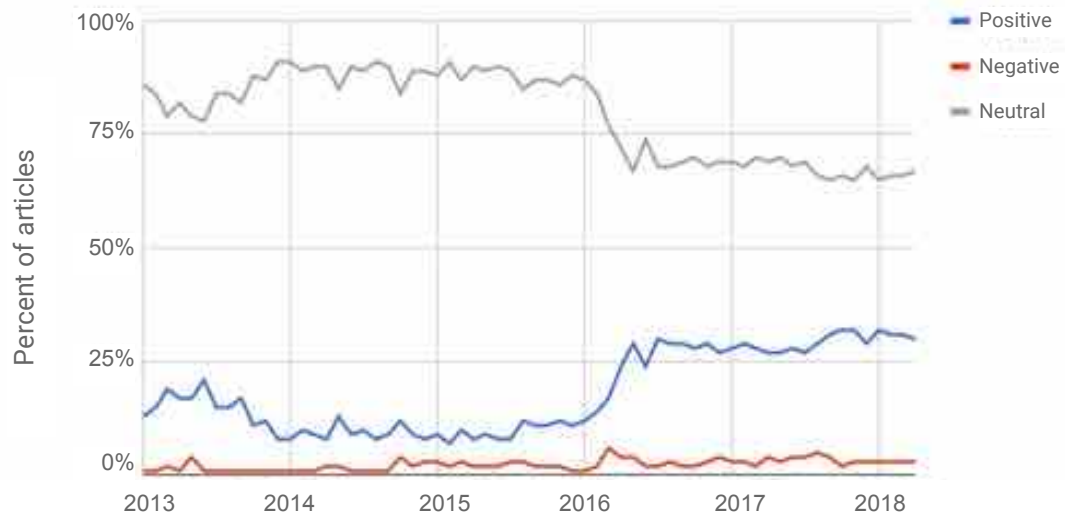
Source: Parliament of U.K. website, McKinsey Global Institute analysis



<http://www.aiindex.org>

Sentiment of articles referencing AI (2013–2018)

Source: TrendKite



<http://www.aiindex.org>

Was ist...



...KI?

„Künstliche Intelligenz ist die Digitalisierung menschlicher Wissensfähigkeiten“



„Schwache KI“

konzentriert sich auf konkrete Fähigkeiten und die Implementierung von digitalen Assistenten, die den Menschen in ihren Handlungskontexten optimal unterstützen, seine Ziele besser, leichter oder mit einer höheren Qualität zu erreichen.

Multiplicity
Milliarden-
€-Markt

„Starke KI“


zielt auf das umfassende künstliche menschenähnliche Etwas - bestehend aus einem maschinellen Bewusstsein - den Homunculus, das künstliche Menschlein als Kopiegeburt.

Singularity
Hollywood



Muster-erkenntnis :-)

Verstehen im Kontext :-)



Object Recognition





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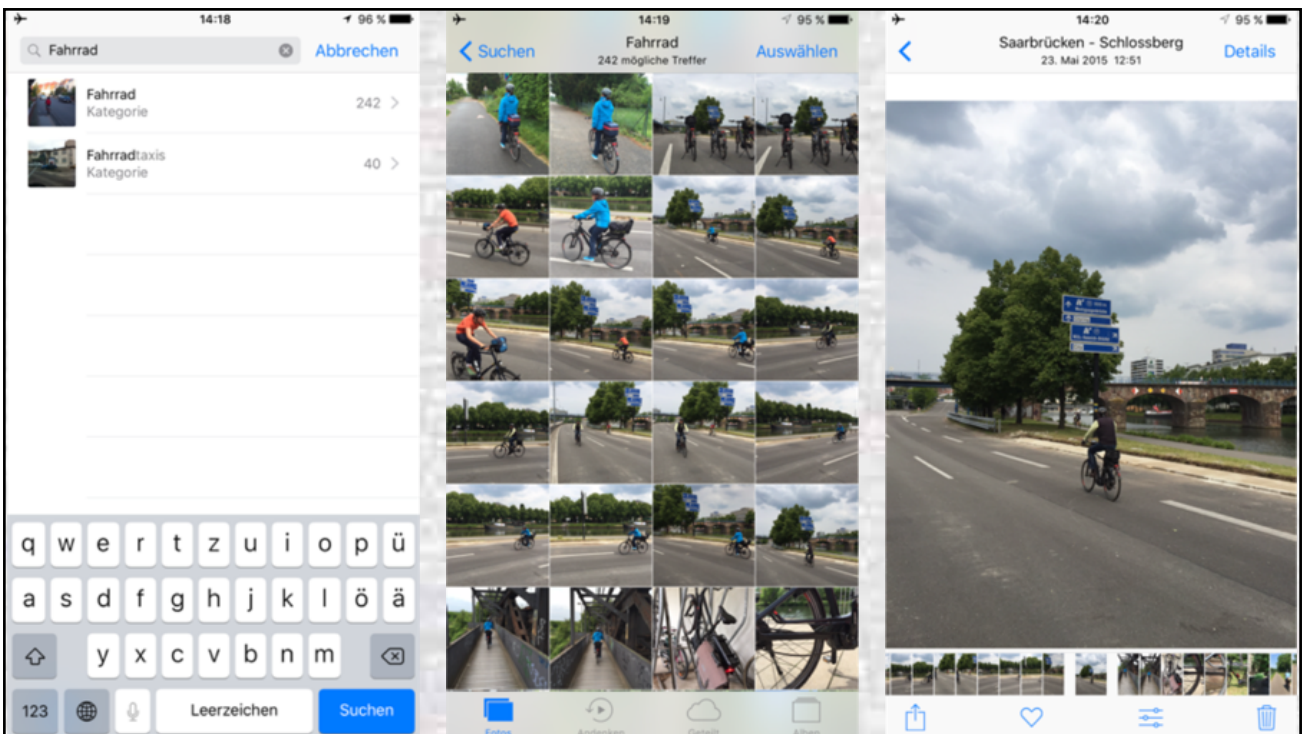
SCI-TECH

Australia to launch beach-protecting, AI-powered shark drones

The Little Ripper drones use artificial intelligence to distinguish sharks from dolphins and surfers in real time, warning swimmers of what lies beneath.

BY CLAIRE REILLY / AUGUST 27, 2017 11:31 PM PDT

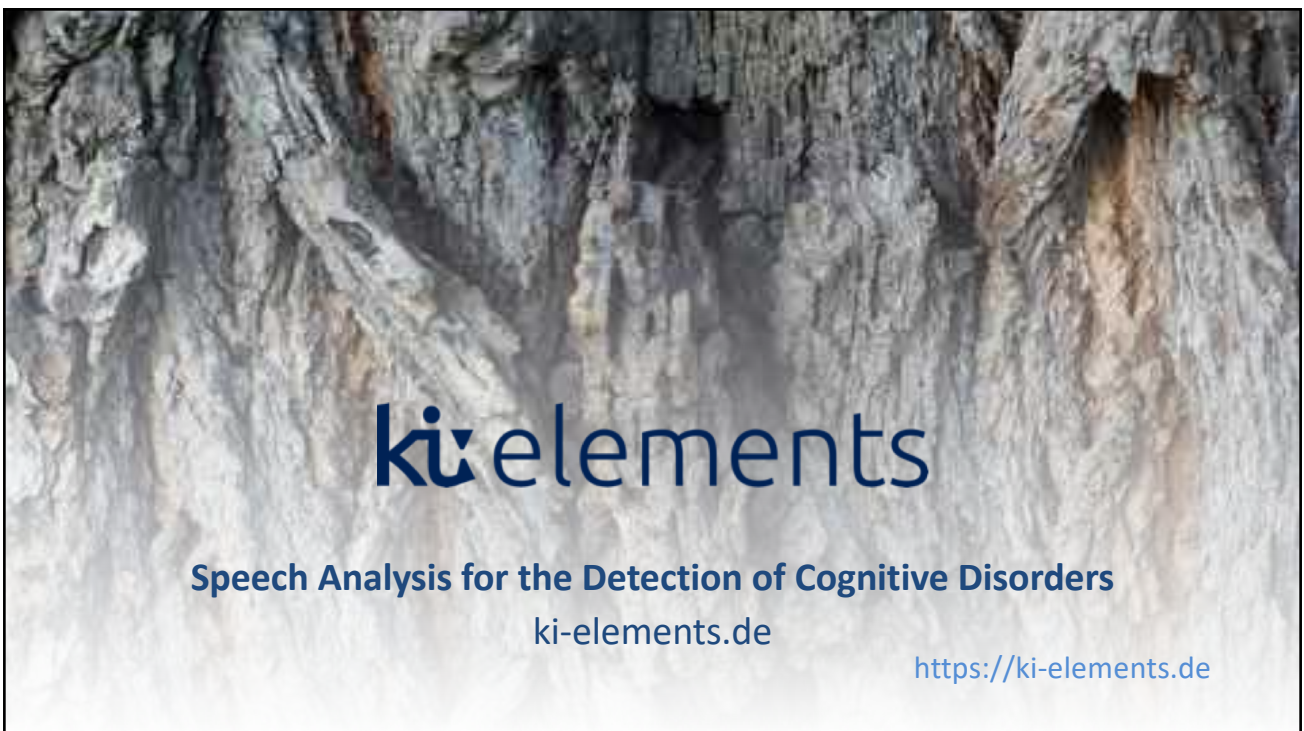















Maschinelle
Übersetzung



The screenshot shows the DeepL website interface. At the top, there is a navigation bar with the DeepL logo and links for 'Übersetzer', 'Linguee', 'DeepL Pro', 'Blog', and 'Info'. Below the navigation bar, there are two main text boxes for translation. The left box is labeled 'Übersetze Deutsch (erkannt)' and contains the German text: 'Maschinelle Übersetzung ist wichtig, damit die Behörden erfolgreich mit Bürgern aus aller Herren Länder kommunizieren können.' The right box is labeled 'Übersetze nach Englisch' and contains the English translation: 'Machine translation is important so that the authorities can communicate successfully with citizens from all over the world.' Below these boxes, there is a small text prompt: 'Um ein Wort nachzuschlagen, klicke einfach darauf.' At the bottom of the screenshot, there is a promotional banner for 'DeepL Pro' with the text 'Erleben Sie DeepL in vollem Umfang' and a 'Weiterlesen' button. To the right of the banner, there are three bullet points with checkmarks: 'Zugang zum DeepL-API', 'Halten Sie ihre Texte vertraulich', and 'SDL Trados Studio 2017 Integration', each followed by a 'Weiterlesen' link.

This screenshot shows four examples of German text being translated into English. Each example consists of a German input box and an English output box, connected by a right-pointing arrow. The examples are as follows:

- German: 'Das Mädchen steht vor dem Kino. Es ist verärgert.' → English: 'The girl is in front of the cinema. It's upset.'
- German: 'Das Mädchen steht vor dem Kino. Es ist verärgert.' → English: 'The girl is in front of the cinema. She is angry.'
- German: 'Das Mädchen steht vor dem Kino. Sie ist verärgert.' → English: 'The girl is in front of the cinema. She is angry.'
- German: 'Das Mädchen steht an der Bushaltestelle. Sie ist sehr verrostet.' → English: 'The girl is standing at the bus stop. She is very rusty.'





<p>Sie ist eine Ärztin. ×</p> <p>🔊 🗂️ ▾ 20/5000</p>	<p>O bir doktor.</p> <p>☆ 🗂️ 🔊 ↻</p>
<p>O bir doktor.</p> <p>🔊 🗂️ ▾</p>	<p>Er ist Arzt.</p> <p>🗂️ 🔊</p>
<p>Turkish - detected ▾ 🔊 ↻ French ▾ 🗂️ 🔊</p> <p>O bir doktor <small>Edit</small> Il est médecin</p>	



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Alibaba's AI Outguns Humans in Reading Test

By **Robert Fenner**
15. Januar 2018, 06:16 MEZ

- Its natural-language processing AI scored higher than humans
- Alibaba says it's the first time a machine outperformed people

<https://www.bloomberg.com/news/articles/2018-01-15/alibaba-s-ai-outgunned-humans-in-key-stanford-reading-test>

15.01.2018, 18.46 Uhr

Erstmals war eine **künstliche Intelligenz** im Stanford-Test zum Lesen und Verstehen besser als ein Mensch – der Rekord gelang sowohl der Alibaba- als auch der Microsoft-KI.

KI schlägt Menschen im Lesetest der Uni Stanford

Künstliche Intelligenzen (KI) haben in den vergangenen Monaten in vielen bisher kaum möglich erscheinenden Bereichen menschliche Leistungen übertroffen. So schreibt die eigentlich als Assistenz gedachte **Google-KI mittlerweile bessere KI-Software** als ihre Entwickler. Auch den weltbesten **Go-Spieler hat die Google-KI geschlagen**. Jetzt sollen die KI-Systeme von **Alibaba** und **Microsoft** im Abstand von wenigen Stunden **den Test der Uni Stanford** zum Lesen und Verstehen besser als ein Mensch absolviert haben, **wie Bloomberg berichtet**.

<https://t3n.de/news/lesetest-ki-besser-als-menschen-911500/>

SQuAD

The Stanford Question Answering Dataset

According to scholars Walter Krämer, Götz Trenkler, Gerhard Ritter, and Gerhard Prause, the story of the posting on the door, even though it has settled as one of the pillars of history, has little foundation in truth. The story is based on comments made by Philipp Melanchthon, though it is thought that he was not in Wittenberg at the time.

What story of little truth is a pillar of history?
Ground Truth Answers: posting on the door | story of the posting on the door | posting on the door
Prediction: the posting on the door

On whose comments is the posting on the door based?
Ground Truth Answers: Philipp Melanchthon | Philipp Melanchthon | Philipp Melanchthon
Prediction: Philipp Melanchthon

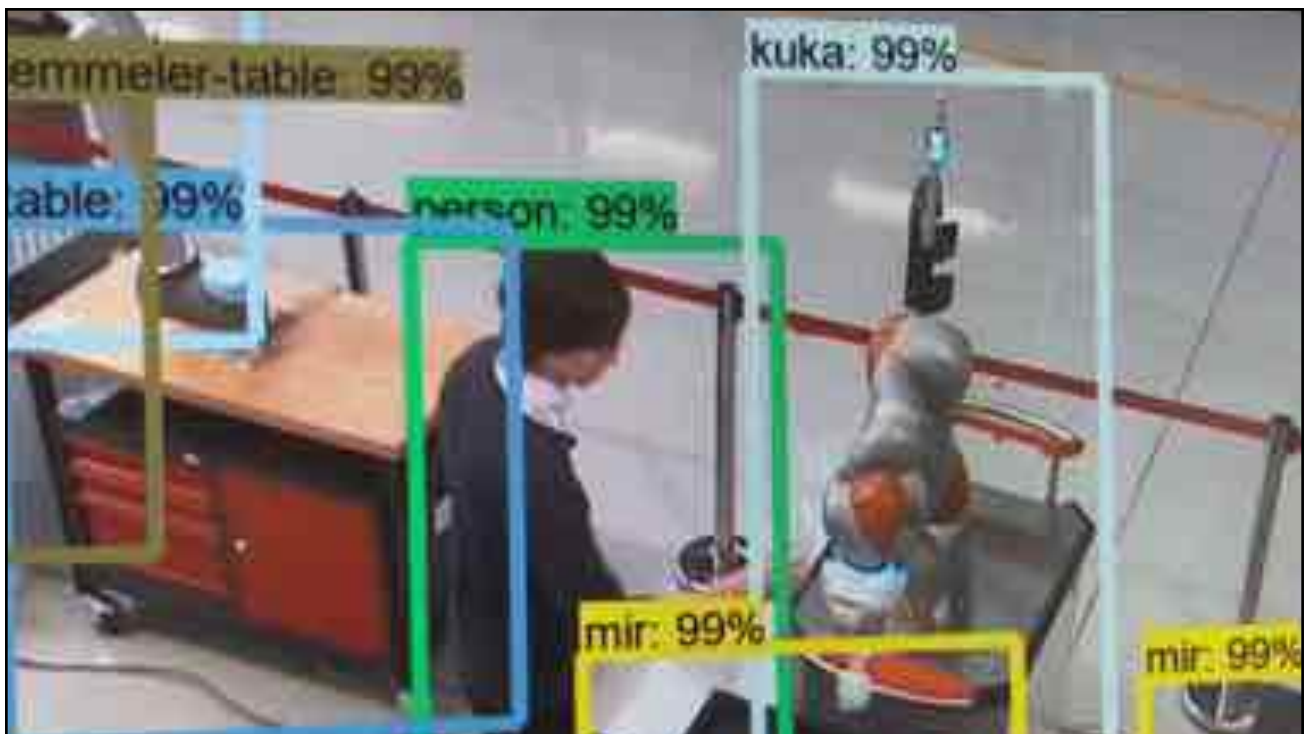
Where was Melanchthon at the time?
Ground Truth Answers: not in Wittenberg | not in Wittenberg | not in Wittenberg
Prediction: Wittenberg

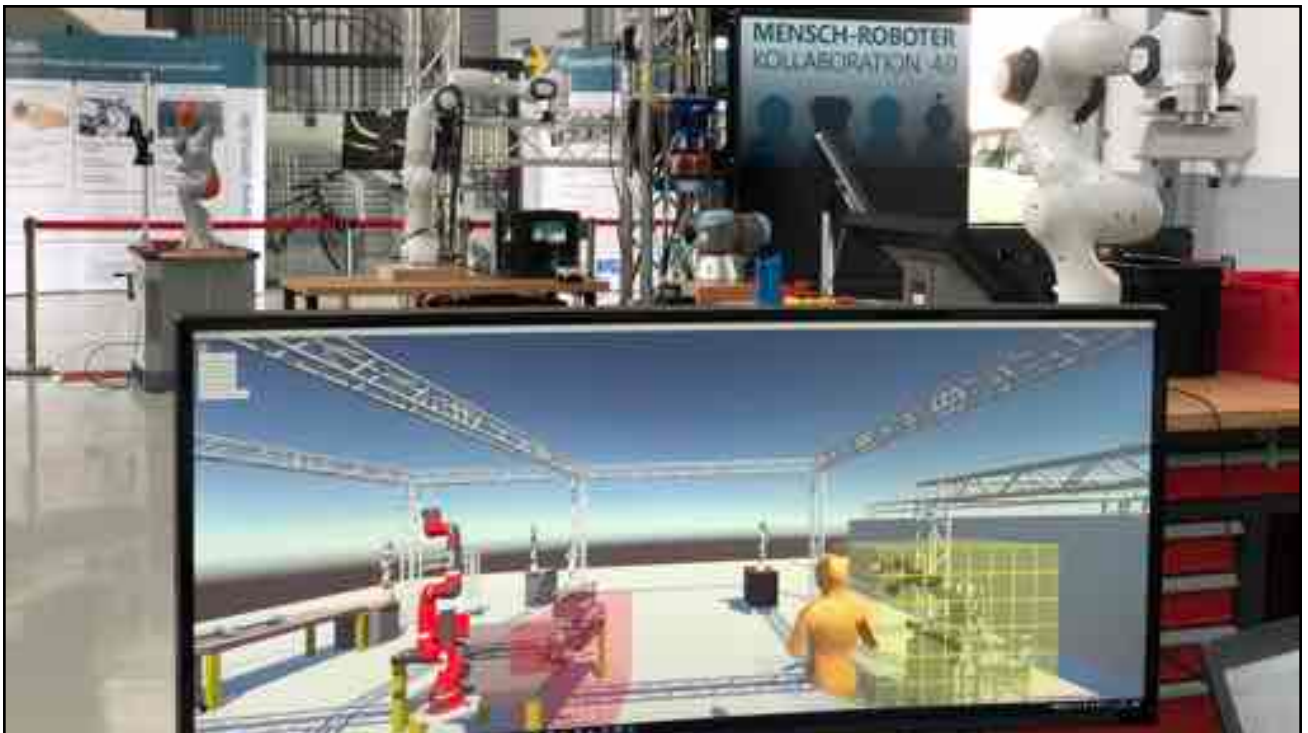
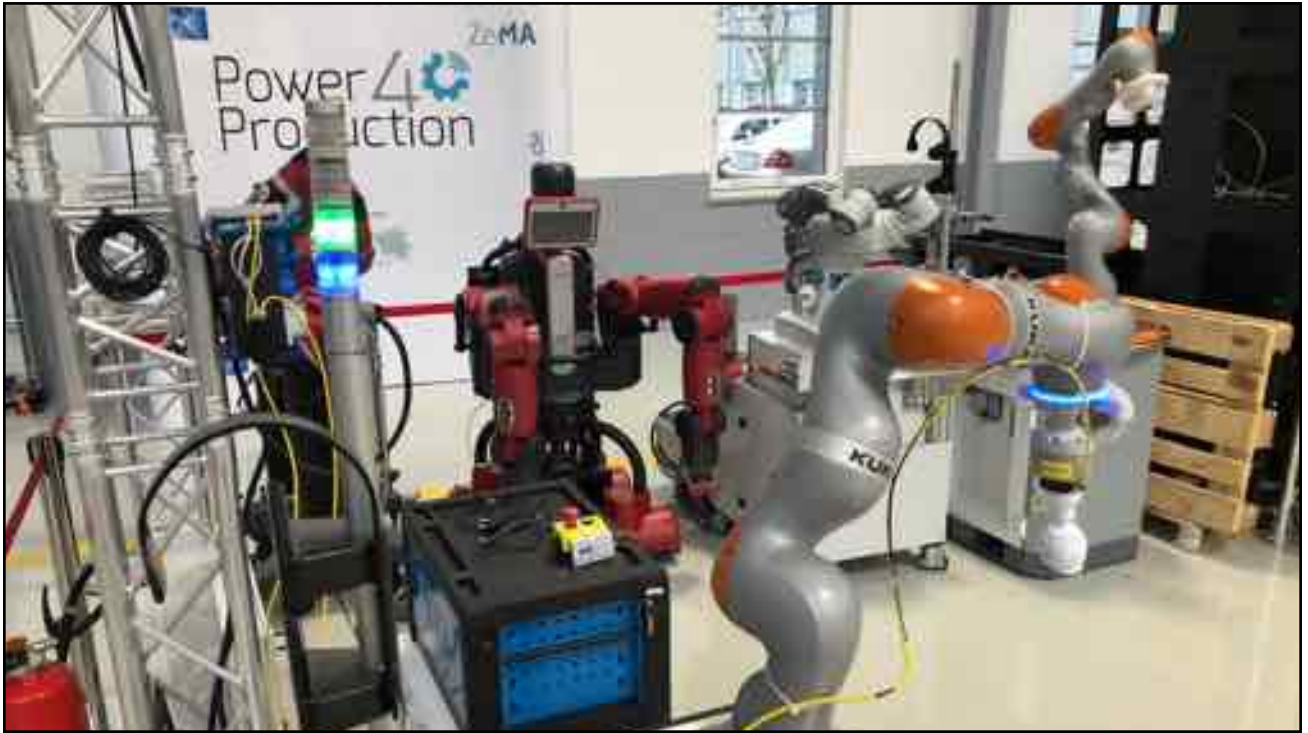
What do scholars agree on about the posting on the door story?
Ground Truth Answers: little foundation in truth | has little foundation in truth | settled as one of the pillars of history
Prediction: little foundation in truth

https://rajpurkar.github.io/SQuAD-explorer/explore/1.1/dev/Martin_Luther.html














YouTube DE Suchen



Uber dashcam footage shows lead up to fatal self-driving crash 18.03.2018

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<https://youtu.be/RASBcc4y00o>

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Preliminary Report Highway: HWY18MH010

Executive Summary


The information in this report is preliminary and will be supplemented or corrected during the course of the investigation.

About 9:58 p.m., on Sunday, March 18, 2018, an Uber Technologies, Inc. test vehicle, based on a modified 2017 Volvo XC90 and operating with a self-driving system in computer control mode, struck a pedestrian on northbound Mill Avenue, in Tempe, Maricopa County, Arizona. The Uber test vehicle was occupied by one vehicle operator, a 44-year-old female. No passengers were in the vehicle.

In the area of the crash, northbound Mill Avenue consists of two left-turn lanes, two through lanes, and one bike lane. The crash occurred before the formation of a right-turn lane. Roadway lighting was present. The posted speed limit was 45 mph.

The crash occurred as the pedestrian, a 49-year-old female, walked a bicycle east across Mill Avenue. The Uber test vehicle was traveling in the right through lane when its right front side struck the pedestrian (see figure 1). As a result of the crash, the pedestrian died. The vehicle operator was not injured.

In this area, northbound Mill Avenue is separated from southbound Mill Avenue by a center median containing trees, shrubs, and brick landscaping in the shape of an X. Four signs at the edges of the brick median, facing toward the roadway, warn pedestrians to use the crosswalk. The nearest crosswalk is at the intersection of Mill Avenue and Curry Road, about 360 feet north of where the crash occurred.



Accident Location: Tempe, AZ USA Maricopa County
Accident Date: 3/18/2018
Accident ID: HWY18MH010

Date Adopted: 5/24/2018
NTSB Number: HWY18MH010-prelim
NTSB Number:

Related Report

[HWY18MH010-prelim](#)

Related Recommendations

Related Press Releases

- May 24, 2018
Preliminary Report Released for Crash Involving Pedestrian, Uber Technologies, Inc., Test Vehicle
- March 21, 2018
NTSB UPDATE: Uber Crash Investigation
- March 19, 2018
NTSB Investigating Uber Crash

Related Events

Related Investigations

- Car with automated vehicle controls crashes into pedestrian

More NTSB Links

- Investigation Process
- Data & Stats
- Accident Reports
- Most Wanted List

24.05.2018

<https://www.nts.gov/investigations/AccidentReports/Pages/HWY18MH010-prelim.aspx>



**PRELIMINARY REPORT
HIGHWAY
HWY18MH010**

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In this area, northbound Mill Avenue is separated from southbound Mill Avenue by a center median containing trees, shrubs, and brick landscaping in the shape of an X. Four signs at the edges of the brick median, facing toward the roadway, warn pedestrians to use the crosswalk. The nearest crosswalk is at the intersection of Mill Avenue and Curry Road, about 360 feet north of where the crash occurred.



Figure 1. (Left) Location of the crash on northbound Mill Avenue, showing the paths of the pedestrian in orange and of the Uber test vehicle in green. (Right) Postcrash view of the Uber test vehicle, showing damage to the right front side.

Uber had equipped the test vehicle with a developmental self-driving system. The system consisted of **forward- and side-facing cameras, radars, LIDAR, navigation sensors, and a computing and data storage unit integrated into the vehicle.**¹ Uber had also equipped the vehicle with an aftermarket camera system that was mounted in the windshield and rear window and that provided additional front and rear videos, along with an inward-facing view of the vehicle operator. **In total, 10 camera views were recorded over the course of the entire trip.**

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The self-driving system relies on an underlying map that establishes speed limits and permissible lanes of travel. The system has two distinct control modes: computer control and manual control. The operator can engage computer control by first enabling, then engaging the system in a sequence similar to activating cruise control. The operator can transition from computer control to manual control by providing input to the steering wheel, brake pedal, accelerator pedal, a disengage button, or a disable button.

The vehicle was factory equipped with several advanced driver assistance functions by Volvo Cars, the original manufacturer. The systems included a collision avoidance function with automatic emergency braking, known as City Safety, as well as functions for detecting driver alertness and road sign information. All these Volvo functions are disabled when the test vehicle is operated in computer control but are operational when the vehicle is operated in manual control.

According to Uber, the developmental self-driving system relies on an attentive operator to intervene if the system fails to perform appropriately during testing. In addition, the operator is responsible for monitoring diagnostic messages that appear on an interface in the center stack of the vehicle dash and tagging events of interest for subsequent review.

On the night of the crash, the operator departed Uber's garage with the vehicle at 9:14 p.m. to run an established test route. At the time of the crash, the vehicle was traveling on its second loop of the test route and had been in computer control since 9:39 p.m. (i.e., for the preceding 19 minutes).

According to data obtained from the self-driving system, the system first registered radar and LIDAR observations of the pedestrian about 6 seconds before impact, when the vehicle was traveling at 43 mph. As the vehicle and pedestrian paths converged, the self-driving system software classified the pedestrian as an unknown object, as a vehicle, and then as a bicycle with varying expectations of future travel path. At 1.3 seconds before impact, the self-driving system determined that an emergency braking maneuver was needed to mitigate a collision (see figure 2).² According to Uber, emergency braking maneuvers are not enabled while the vehicle is under computer control, to reduce the potential for erratic vehicle behavior. The vehicle operator is relied on to intervene and take action. The system is not designed to alert the operator.

¹ Light Detection and Ranging (LIDAR) works much like radar, but instead of radio waves, it emits pulses of infrared light and measures how long they take to return after hitting nearby objects. Navigation sensors include global positioning system (GPS), inertia, and wheel speed.
² In Uber's self-driving system, an emergency brake maneuver refers to a deceleration greater than 6.5 meters per second squared (m/s²).

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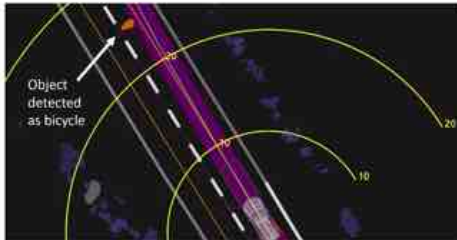


Figure 2. View of the self-driving system data playback at about 1.2 seconds before impact, when the system determined an emergency braking maneuver would be needed to mitigate a collision. Yellow bars are shown in meters ahead. Orange lines show the center of mapped travel lanes. The purple shaded area shows the path the vehicle traveled, with the green line showing the center of that path.

The self-driving system data showed that the vehicle operator intervened less than a second before impact by engaging the steering wheel. The vehicle speed at impact was 39 mph. The operator began braking less than a second after the impact. The data also showed that all aspects of the self-driving system were operating normally at the time of the crash, and that there were no faults or diagnostic messages.

Several Uber self-driving system cameras captured the crash event. The videos were reviewed by the NTSB and the parties to the investigation. The forward-facing videos show the pedestrian coming into view and proceeding into the path of the vehicle. The video also shows that the pedestrian, once visible, did not look in the direction of the vehicle until just before impact. The videos show that the pedestrian was dressed in dark clothing and that the bicycle did not have any side reflectors. The bicycle had front and rear reflectors and a forward headlamp, but all were facing in directions perpendicular to the path of the oncoming vehicle. The videos show that the pedestrian crossed in a section of roadway not directly illuminated by the roadway lighting.

The inward-facing video shows the vehicle operator glancing down toward the center of the vehicle several times before the crash. In a postcrash interview with NTSB investigators, the vehicle operator stated that she had been monitoring the self-driving system interface. The operator further stated that although her personal and business phones were in the vehicle, neither was in use until after the crash, when she called 911.

The NTSB continues to gather information on the Uber self-driving system, the vehicle interface, and the driver's personal and business cell phones. Although toxicological specimens were not collected

The self-driving system data showed that **the vehicle operator intervened less than a second before impact by engaging the steering wheel. The vehicle speed at impact was 39 mph. The operator began braking less than a second after the impact...**

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from the vehicle operator, responding officers from the Tempe Police Department stated that the vehicle operator showed no signs of impairment at the time of the crash.

The NTSB continues to gather information on the pedestrian and is seeking information from anyone who might be aware of her activities before the crash. Those with information should contact the NTSB by email at nhtsa@ntsb.gov. Toxicology test results for the pedestrian were positive for methamphetamine and marijuana.

All aspects of the crash remain under investigation as the NTSB determines the probable cause, with the intent of issuing safety recommendations to prevent similar crashes. The NTSB is working with the parties to the investigation—Uber, Volvo Cars, and the Arizona Department of Transportation—to compile a complete and accurate account of the crash.

Umrechnung

$$1 \text{ m/h} = 1,61 \text{ km/h}$$

$$43 \text{ m/h} = 69,23 \text{ km/h}$$

$$69,23 \text{ km/h} = 21,63 \text{ m/s}$$

$$1,3 \times 21,63 = 28,119 \text{ m}$$

Formel für Gefahrenbremsung:

$$\frac{\text{Geschwindigkeit in km/h}}{10} * \frac{\text{Geschwindigkeit in km/h}}{10} = \frac{\text{Bremsweg in m}}{2}$$

Gefahrenbremsweg bei 69,23 km/h:
 $6,923 \times 6,923 / 2 = 23,96 \text{ m}$

Saarbrücken

Synthetische Daten

Agents and Simulated Reality Department
Saarbrücken / Prof. Philipp Slusallek





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Sahra Wagenknecht im Interview

"Roboter und KI könnten uns von Mühsal und Stress befreien"

Drucken <http://www.cio.de/a/roboter-und-ki-koennten-uns-von-muehsal-und-stress-befreien,3323500>

19.10.2016

Von Jan-Bernd Meyer (Leitender Redakteur Computerwoche) ▾

Sahra Wagenknecht, die gemeinsam mit Dietmar Bartsch den Fraktionsvorsitz der Partei DIE LINKE bildet, hat auf unsere Fragen zur Digitalisierung, Automatisierung und Roboterisierung der Gesellschaft Antworten gegeben, die überraschen. Wirklich bedrohlich scheint sie die technischen Umwälzungen übrigens nicht zu finden.

E ELECTRONIC FRONTIER FOUNDATION

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<https://eff.org/ai/metrics>

AI Progress Measurement



AI artificial intelligence index
2018 annual report

AI AI INDEX 2018

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Project Manager

Zoe Bauer

<http://www.aiindex.org>

The screenshot shows the Rheinwerk website interface. At the top, there is a navigation bar with the Rheinwerk logo, a search bar, and links for 'Ihr Konto', 'Newsletter', 'Hilfe', and 'Anmelden'. Below this is a category menu with options like 'Fotografie', 'Grafik & Design', 'Computer & Office', 'Web & Online-Marketing', 'Programmierung & Maker', 'IT-Administration', and 'SAP'. The main content area features a book listing for 'Deep Learning mit TensorFlow, Keras und TensorFlow.js' by Matthieu Deru and Alassane Ndiaye. The book cover is shown on the left. To the right, the title is displayed under the heading 'Professionelle KI-Projekte mit Neuronalen Netzen'. Below the title, there are three options: 'Buch' (€ 39,90), 'E-Book' (€ 35,90), and 'Bundle Buch + E-Book' (€ 44,90). All options are marked as 'Vorbestellbar' (pre-order) and available from 26.04.2019. A 'Buch' section on the right provides additional details: 'ca. € 39,90 inkl. MwSt.', 'Vorbestellbar', 'Lieferbar ab 26.04.2019', and 'Kostenloser Versand nach Deutschland, Österreich und in die Schweiz'. A yellow button 'In den Warenkorb' is visible. At the bottom of the listing, it states '400 Seiten, 2019, gebunden', 'Rheinwerk Computing, ISBN 978-3-8362-6509-6', and 'Kostenloser Versand nach Deutschland, Österreich und in die Schweiz'.

https://www.rheinwerk-verlag.de/deep-learning-mit-tensorflow-keras-und-tensorflowjs_4715/

The screenshot shows the 'ZUKUNFTS-optimisten' website. The header features the logo 'ZUKUNFTS-optimisten' and a hamburger menu icon. The main content area displays a profile for Reinhard Karger, a man in a dark jacket and glasses, standing in front of a wall with colorful abstract art. Below the photo, his name 'REINHARD KARGER' and affiliation 'DEUTSCHES FORSCHUNGSZENTRUM FÜR KÜNSTLICHE INTELLIGENZ' are listed. The text below reads: 'Kassandra geht steil zur Prime Time: „Künstliche Intelligenz in aller Munde, in jeder Ausgabe ungefähr jeder Tageszeitung. Das führt bei Lesern nicht aus Notwendigkeit zu mehr Erkenntnis. Führt bei Autoren garantiert zu immer fetteren Schlagzeilen, die sich sensationistisch überbieten und aufmerksamkeitsheischend Klicks fangen wollen. Selten geht es bei KI aktuell um das Faktische. Kaum um das kurzfristig Mögliche, das mittelfristig Erwartbare, wenig um konkrete Chancen und Anwendungen, oft um überzogene Erwartungen oder obskure Vorbehalte. Leser allerdings fühlen sich existentiell bedroht, die Gesellschaft wird zunehmend nervös. Das ist nicht notwendig!'.

Beitrag unter: <https://zukunftsoptimisten.rocks/portfolio-items/reinhard-karger/?portfolioCats=8>



THANK YOU

Vielen Dank!

Reinhard Karger | Unternehmenssprecher



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