



انجمن کتابداری و اطلاع رسانی خراسان با  
همکاری اندیشگاه رضوی برگزار می کند:

حسین حیدری

مدیر گروه یابش

خدمات دهنده اطلاعاتی به اکوسیستم پژوهشی

مرضیه گلابیان مقدم

کارشناس امور خدمات کتابخانه دیجیتال آستان قدس رضوی

# پارادایم های نوین اطلاعاتی



دوشنبه ۲۱ اسفند ۱۴۰۲، ساعت ۹

حرم مطهر رضوی، کتابخانه مرکزی، اتاق کنفرانس

<https://www.skyroom.online/ch/aqrlibrary/andishgah>

افق های پیش روی جامعه اطلاعاتی و پایگاه های اطلاعاتی



# پارادایم های نوین اطلاعاتی

حسین حیدری / آغند ۱۴۰۲



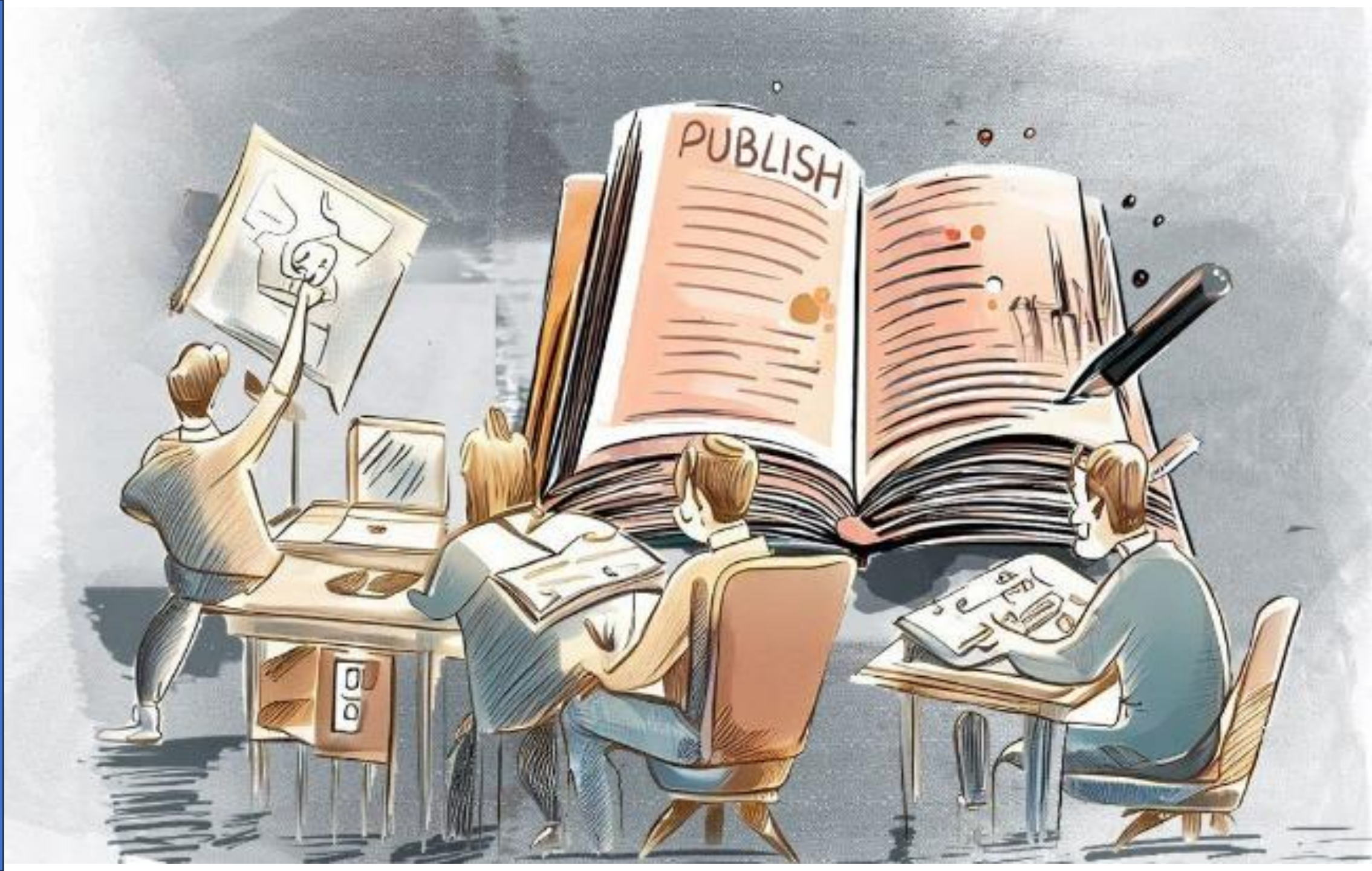
جستجوی دانش

Yabesh.ir











# چقدر اطلاعات داریم؟ برای آنکه بجوریم!



Library of Congress

**LIBRARY** LIBRARY OF CONGRESS



Main reading room of the Library's **Thomas Jefferson Building**

 **38°53'19"N 77°0'17"W**

**Location** Washington, D.C.

**Established** April 24, 1800; 223 years ago

|             | <b>Collection</b>                |
|-------------|----------------------------------|
| <b>Size</b> | 173 million items <sup>[a]</sup> |

The collections of the Library of Congress include more than 32 million catalogued books and other print materials in 470 languages; more than 61 million manuscripts; the largest rare book collection in North America, including the rough draft of the Declaration of Independence, a Gutenberg Bible (originating from the Saint Blaise Abbey, Black Forest—one of only three perfect vellum copies known to exist); over 1 million U.S. government publications; 1 million issues of world newspapers spanning the past three centuries; 33,000 bound newspaper volumes; 500,000 microfilm reels; U.S. and foreign comic books—over 12,000 titles in all, totaling more than 140,000 issues; 1.9 million moving images (as of 2020); 5.3 million maps; 6 million works of sheet music; 3 million sound recordings; more than 14.7 million prints and photographic images including fine and popular art pieces and architectural drawings (WikiPedia)



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# چقدر اطلاعات داریم؟ برای آنکه بجوریم!

The Library's collection has developed over 250 years and **exceeds 150 million** separate items representing every age of written civilisation and includes books, journals, archives, manuscripts, maps, stamps, music, patents, photographs, newspapers and sound recordings in all written and spoken languages.

170–200 million+ items

13,950,000 books<sup>l</sup>

824,101 serial titles

351,116 manuscripts (single and volumes)

8,266,276 philatelic items

4,347,505 cartographic items

1,607,885 music scores

6,000,000 sound recording

British Library

BRITISH LIBRARY



British Library building at St Pancras from the piazza

 51°31'46"N 0°07'37"W

# چقدر اطلاعات داریم؟ برای آنکه بجوریم!

Date: 10/21/2023

۳۸۹,۰۰۰,۰۰۰

گوگل اسکالر (تخمینی سال ۲۰۱۸)  
Google Scholar بیشتر بخوانید

۹۰,۶۲۴,۴۶۳

وب آو ساینس  
Web of Science

۹۳,۴۳۶,۲۱۰+

۵۰,۱۷۰,۵۲۲+

۱۷۹,۲۸۴,۱۰۰

اسکوپوس  
Scopus

۱۵۱,۹۶۷,۷۱۷

کراس رف  
Crossref

۲۱۴,۳۱۵,۷۶۳

سایمنتیک اسکالر  
Semantic Scholar

۱۳۹,۶۴۵,۲۹۹+

۱۵۷,۰۸۰,۶۴۲

دایمنشنز  
Dimensions.ai



HOW MUCH **DATA** IS  
**GENERATED** EVERY DAY

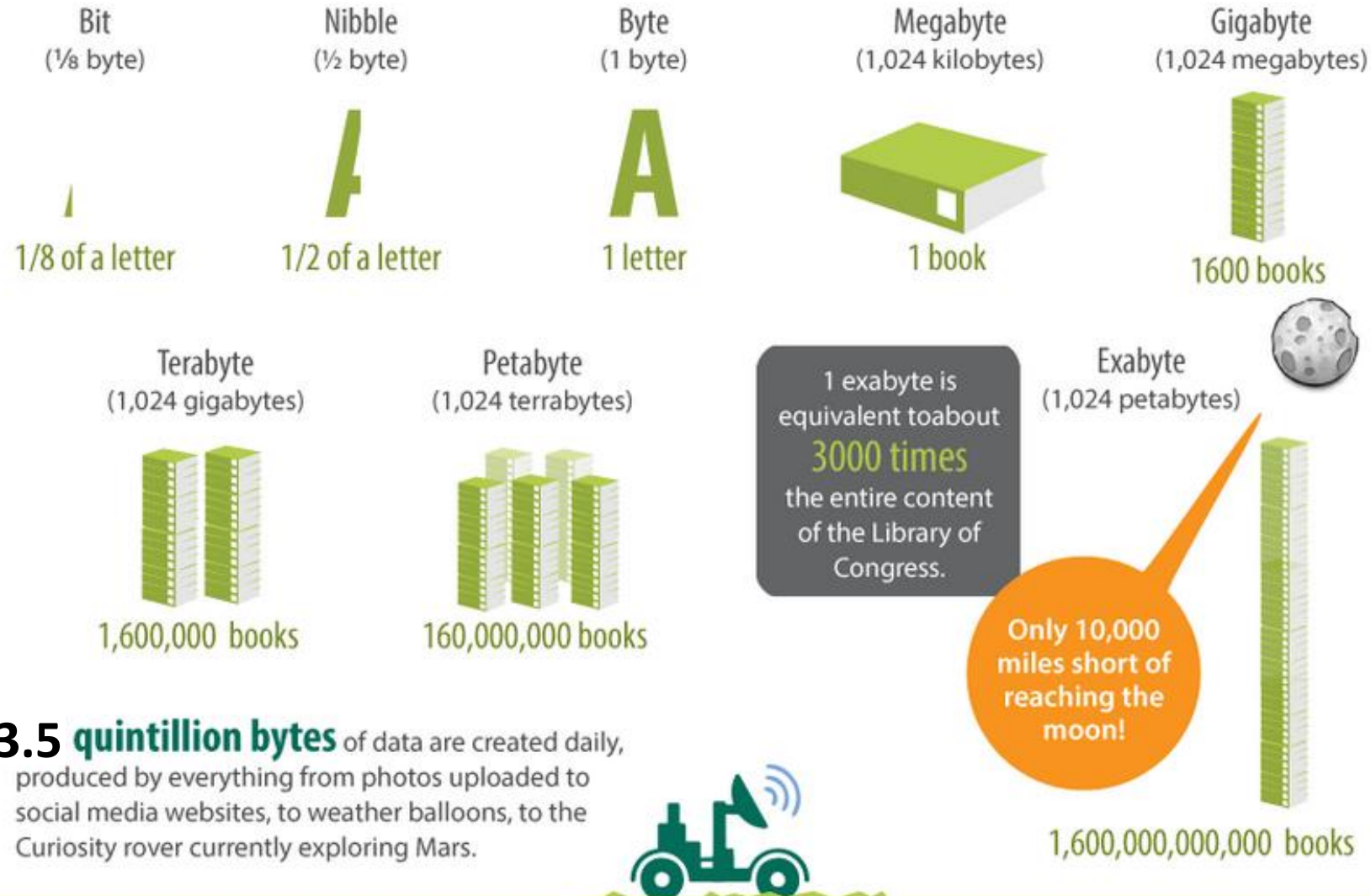


سرعتِ افزایش  
حجم  
داده-اطلاعات-دانش

<https://earthweb.com/how-much-data-is-created-every-day/>



# Data Sizes



**3.5 quintillion bytes** of data are created daily, produced by everything from photos uploaded to social media websites, to weather balloons, to the Curiosity rover currently exploring Mars.

## Bigger Than Big Data

**Zettabyte**  
(1,024 exabytes)

**Yottabyte**  
(1,024 zettabytes)

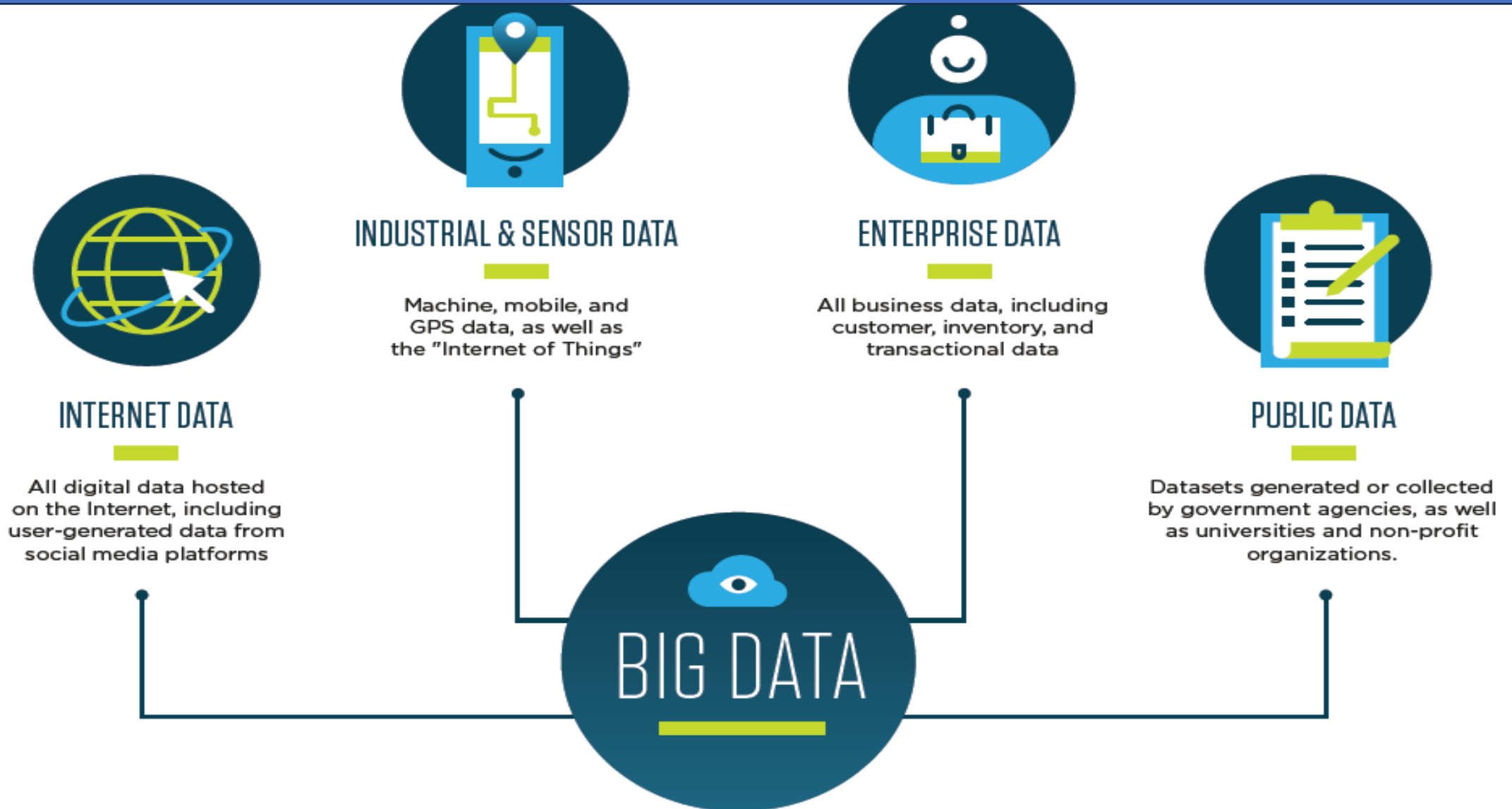
**Googolbyte** \*theorized  
(10 + 1000's bytes)

<https://earthweb.com/how-much-data-is-created-every-day/>

3.5 quintillion bytes of data are created each day.

**3,500,000,000,000,000,000**

# داده ها کجا تولید می شوند؟

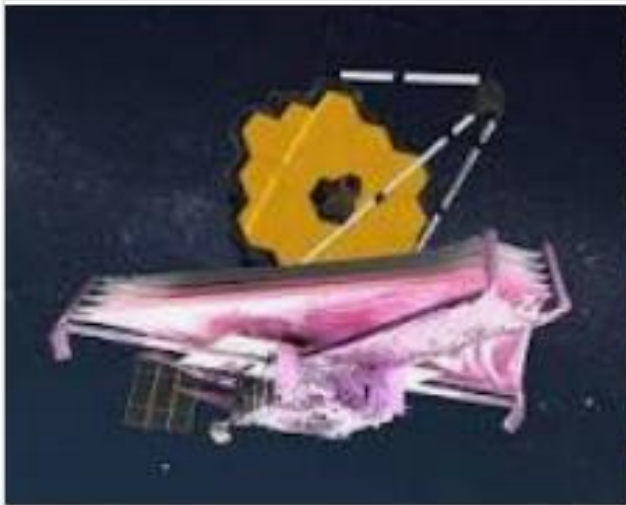
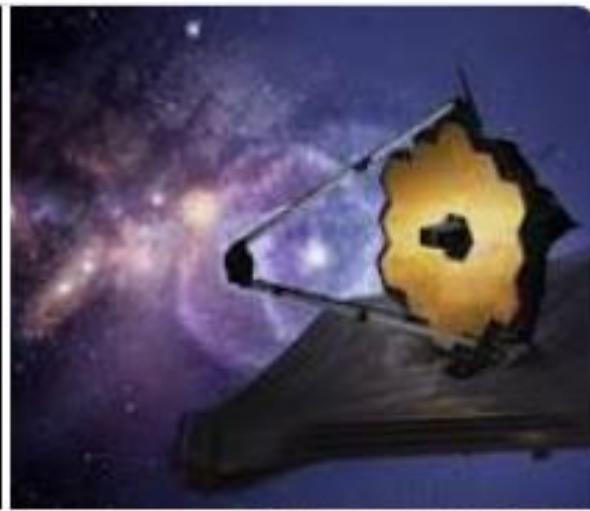
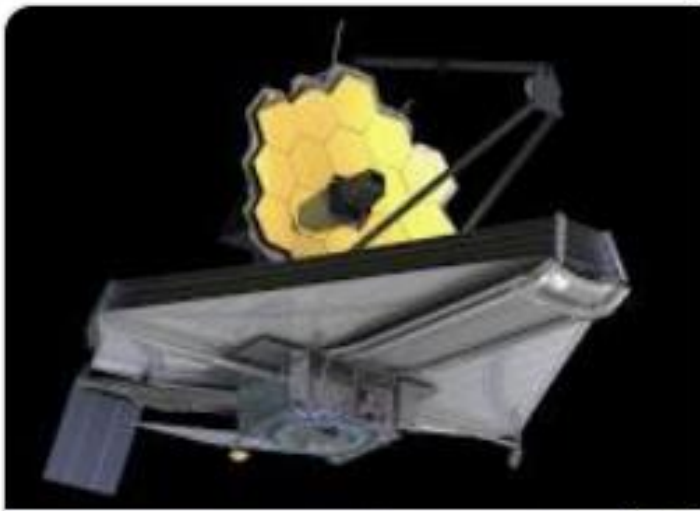




# دستگاه های جدید







# James Webb Space Telescope

Space rocket :

# دستگاه های جدید

<https://webb.nasa.gov/>



# ماشین های خودران



# TOP 5 GLOBAL ROBOTICS TRENDS IN 2024

1

**AI AND  
MACHINE  
LEARNING**



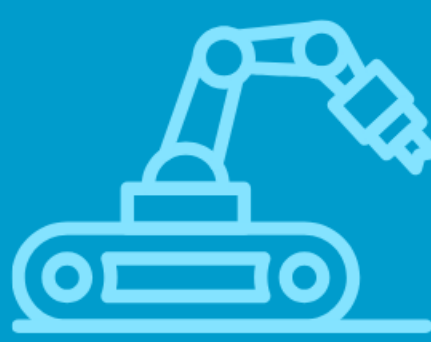
2

**COBOTS IN  
NEW  
APPLICATIONS**



3

**MOBILE  
MANIPULATORS**



4

**DIGITAL  
TWIN**



5

**HUMANOIDS**



Find out more at:

<https://ifr.org/ifr-press-releases/news/top-5-robot-trends-2024>



**Data**

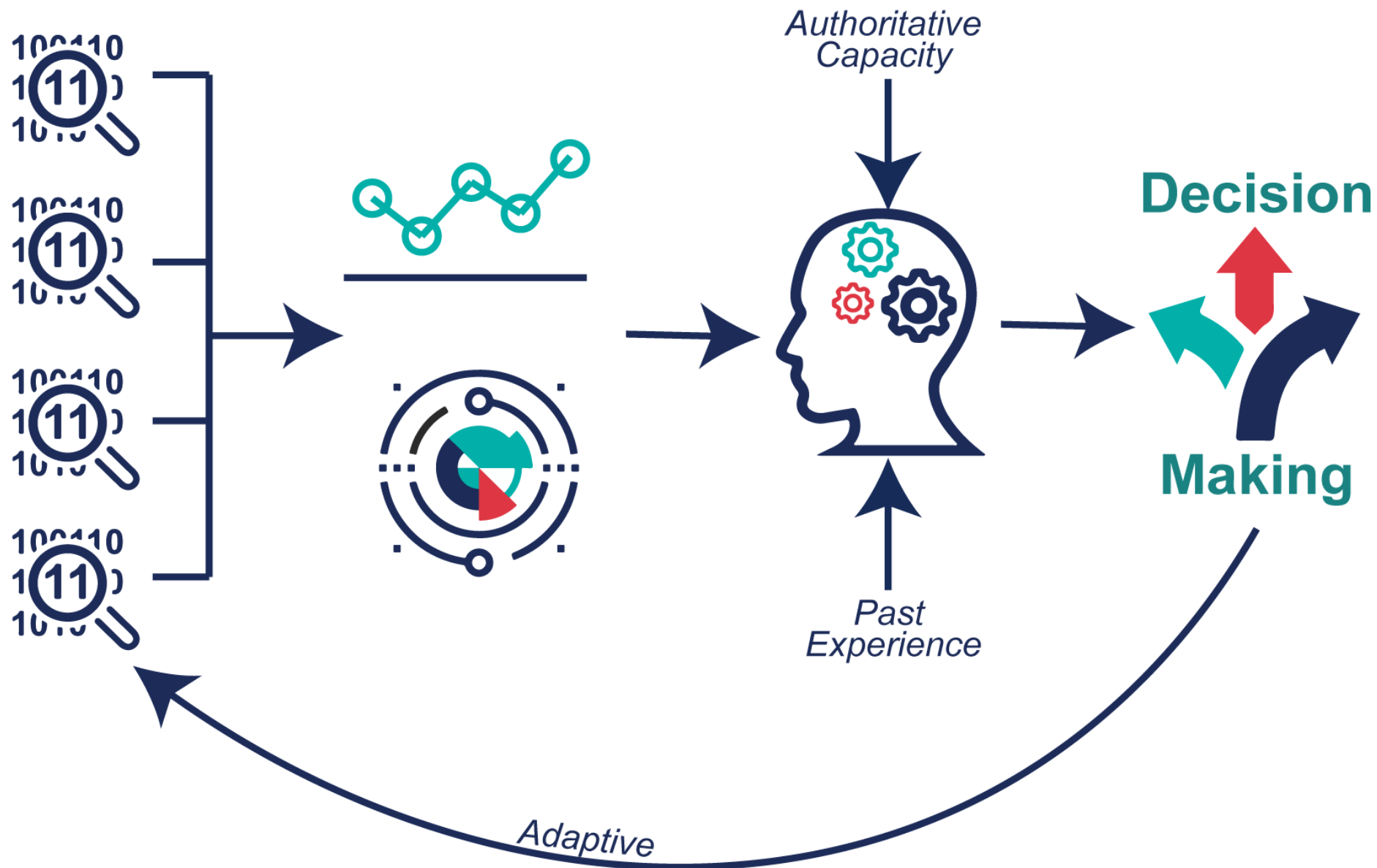
*Raw*

**Information**

*Processed*

**Knowledge**

*Actionable*



داده-اطلاعات-دانش  
پرخه ی



# تولیدات انسان – ماشین (دوران همکاری)



# Patents on AI creations require 'significant' human input, USPTO says

By Blake Brittain

February 13, 2024 1:11 AM GMT+3:30 · Updated a month ago




توليدات  
انسان – هوش  
مصنوعی

<https://www.federalregister.gov/documents/2024/02/13/2024-02623/inventorship-guidance-for-ai-assisted-inventions>



The United States Patent and Trademark Office (USPTO) is seen in Alexandria, Virginia, U.S., September 1, 2020. REUTERS/Andrew Kelly

Purchase Licensing Rights: 53



# Voice Actors 'Shocked' to Find AI Copying Their Speech, Tone

<https://www.bloomberg.com/news/newsletters/2023-04-19/voice-actors-shocked-to-find-ai-copying-their-speech-tone>



# AI Can Convincingly Mimic A Person's Handwriting Style, Researchers Say

<https://mbzuai.ac.ae/news/transformers-of-the-handwritten-word/>



# Why Are Deepfakes Everywhere? Can They Be Stopped?

[link](#)

## Real



## DeepFake





## Copyright and Artificial Intelligence



In early 2023, the Copyright Office launched an initiative to examine the copyright law and policy issues raised by artificial intelligence (AI) technology, including the scope of copyright in works generated using AI tools and the use of copyrighted materials in AI training. After convening public listening sessions and hosting public webinars to gather and share information about current technologies and their impact, the Office published a notice of inquiry in the *Federal Register* in August 2023 that received over 10,000 comments by the December 2023 deadline. In 2024, the Office plans to issue a report in several sections analyzing the issues, which will be published as they are completed.



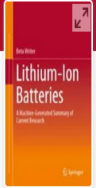
# The first AI-generated textbook shows what robot writers are actually good at

SPRINGER LINK

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Book | © 2019

## Lithium-Ion Batteries

A Machine-Generated Summary of Current Research

Home > Book

Authors: [Beta Writer](#)

The first machine-generated book in chemistry

Provides an overview of recent research

Includes summaries of 150 articles, 100 images

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/ Rote writing that relieves v  
out researchers? Right on

By **James Vincent**, a senior reporter who has covered AI, robotics, a  
eight years at The Verge.

Apr 10, 2019, 8:25 PM GMT+4:30



فهرست کتاب

Academic publisher Springer Nature has unveiled what it claims is the first research book generated using machine learning.



# محتوا؛ خوراک آموزش ماشین

Machine Learning







به سمت جامعه ی رباتیک میرویم



# Google

به گزارش خبرگزاری مهر به نقل از رویترز، شان داوونی که بر فروش تبلیغات به مشتریان بزرگ در قاره آمریکا نظارت می کند در یک جلسه اعلام کرد: گوگل ظاهراً قصد دارد کارکنان بخش فروش خود را که شغل آن ها توسط ابزارهای هوش مصنوعی جدید این شرکت خودکار شده است، اخراج کند یا اینکه آن ها را در منصب دیگری به کار بگیرد.

چاقو دسته ی خودش را می برد!

# توليدات هوش مصنوعی





**Data**

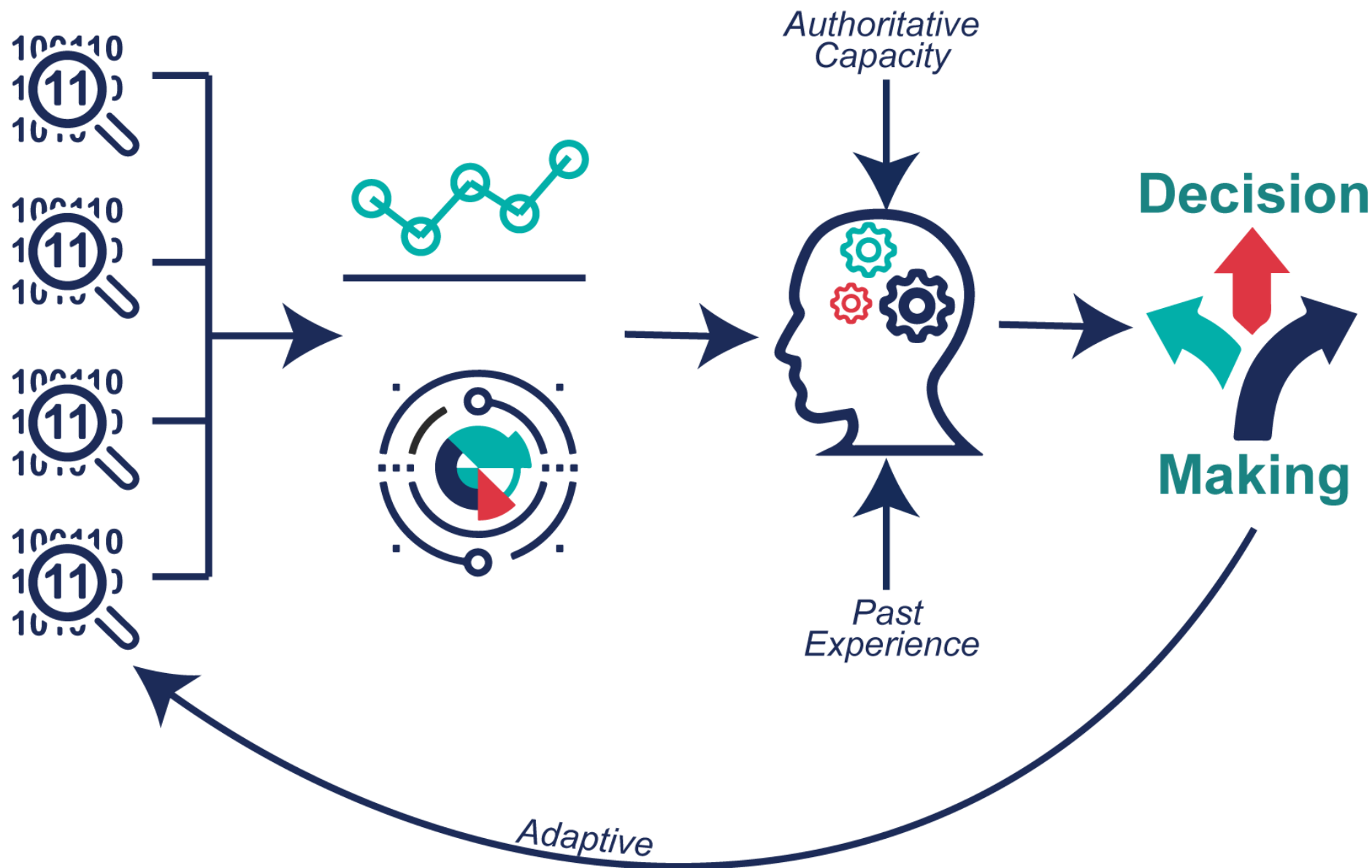
*Raw*

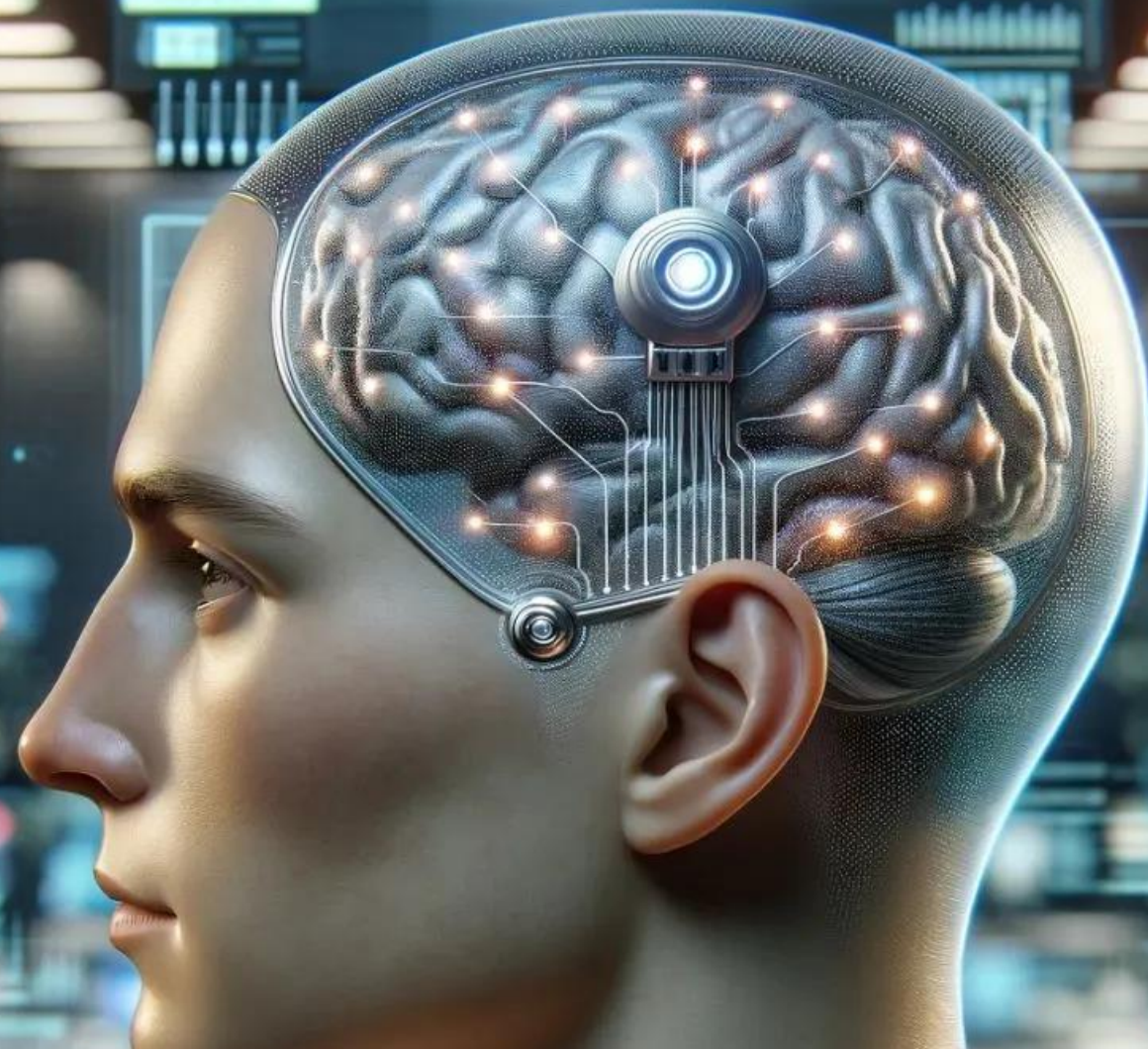
**Information**

*Processed*

**Knowledge**

*Actionable*





انسان روباتیک – تراشه مغزی



# پایگاه های اطلاعاتی





# Scopus AI

دانش

 Search


Sources

SciVal 





## Start exploring

Get up to speed on a topic at a glance 

Documents


Authors

Researcher Discovery

Organizations


Scopus AI **New**

Search tips 

Search within  
Article title, Abstract, Keywords 

Search documents 

 Add search field  Add date range [Advanced document search >](#)

Search 

Search History

Saved Searches



Start searching and your history will appear here. If you



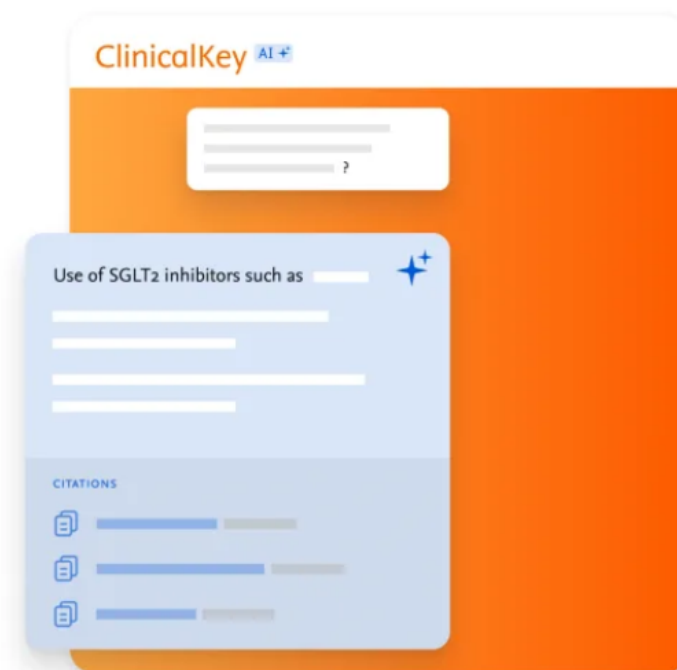


# ClinicalKey AI

## World class clinical information meets artificial intelligence

ClinicalKey AI combines trusted, evidence-based clinical content with conversational search powered by generative AI to support clinicians in delivering high-quality patient care.

Join the journey today





# Uptodate AI



Contents ▾

Calculators

Drug Interactions

UpToDate F

Search UpToDate

History

**Most Viewed**

Bookmarks

Oseltamivir: Drug information

Clinical manifestations and diagnosis of polycythemia vera

Ramipril: Drug information

Acyclovir (systemic): Drug information

Torsemide (torasemide): Drug information

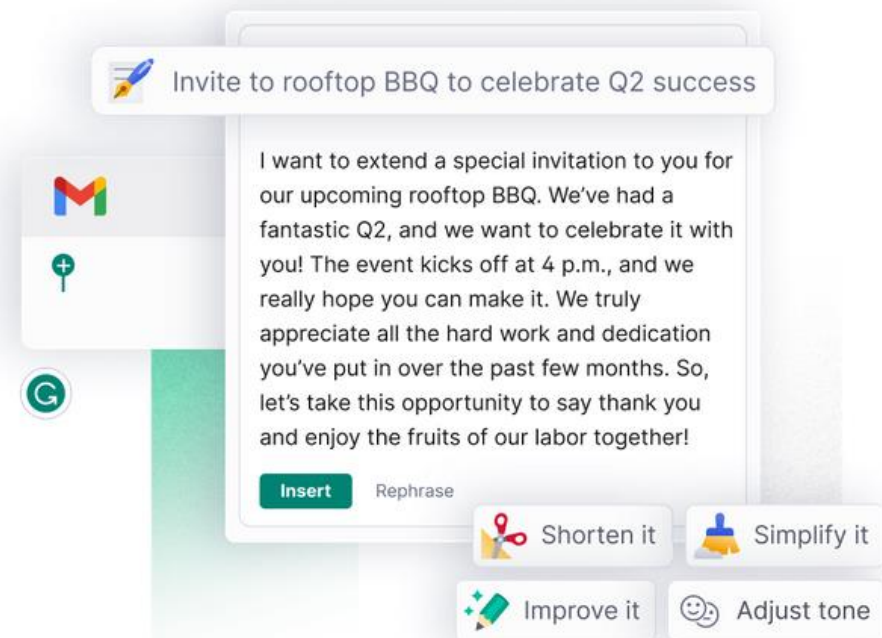
## Building on Wolters Kluwer's solid AI foundation

Around 50% of Wolters Kluwer's digital revenues now come from products that leverage artificial intelligence. Wolters Kluwer products, services and expert solutions are based on a foundation of trust, transparency, and responsibility – in line with the company's values. Wolters Kluwer's AI Principles, which guide the design, development and deployment of advanced technologies in helping customers solve their most complex problems, can be found [here](#).





# GrammarlyGO!



## Accelerate your writing process

Prompt Grammarly's generative text feature with basic instructions to get polished drafts in seconds. You give some background, and Grammarly gets your message onto the page.

# احتمالا گوشی ها بدون اپلیکیشن می شوند آیا پژوهشگران هم بی نیاز از بانک های اطلاعاتی می شوند؟

Why you can trust ZDNET

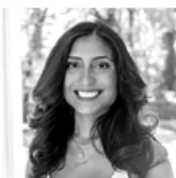
ZDNET independently tests and researches products to bring you our best recommendations and advice.

When you buy through our links, we may earn a commission. **Our process**

Home / Innovation / Artificial Intelligence

## A smartphone without apps? This AI assistant aims to replace them all

If you liked Rabbit's R1, behold Deutsche Telekom's T Phone. The AI-powered prototype will be revealed at next week's MWC.



Written by **Sabrina Ortiz**, Editor

Feb. 20, 2024 at 11:24 a.m. PT



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