



Artificial Intelligence

YEWNO DISCOVER AND UNEARTH

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Manisha@Yewno.com

THE FUTURE OF
KNOWLEDGE CURATION
AND DISCOVERY

History of an Idea: Yewno

- Applied Mathematics in Complex Systems, PhD
- There is a structure for study and description of economic and financial cycles: Econophysics



2009



2010 ~ 2013



2015



Today

- On the research line for emerging properties analysis of complex graphs, a new bio-medical research paradigm
- More than 23 million specialized scientific publications have processed and mapped tens of millions of biological reports: the application and Drug Repurposing
- Stanford University is interested in innovating this model.
- Part of a project for prototyping an inferential engine with the aim of providing a new tool for extracting knowledge by processing tens of millions of data sources across various disciplines
- Yewno, Inc., is a Silicon Valley based startup focused on information processing to create Knowledge and Advanced Analytics Applications
- The technology model is based on an innovative structure of algorithms based on Computational Linguistics, Neural Processes, and Deep Learning



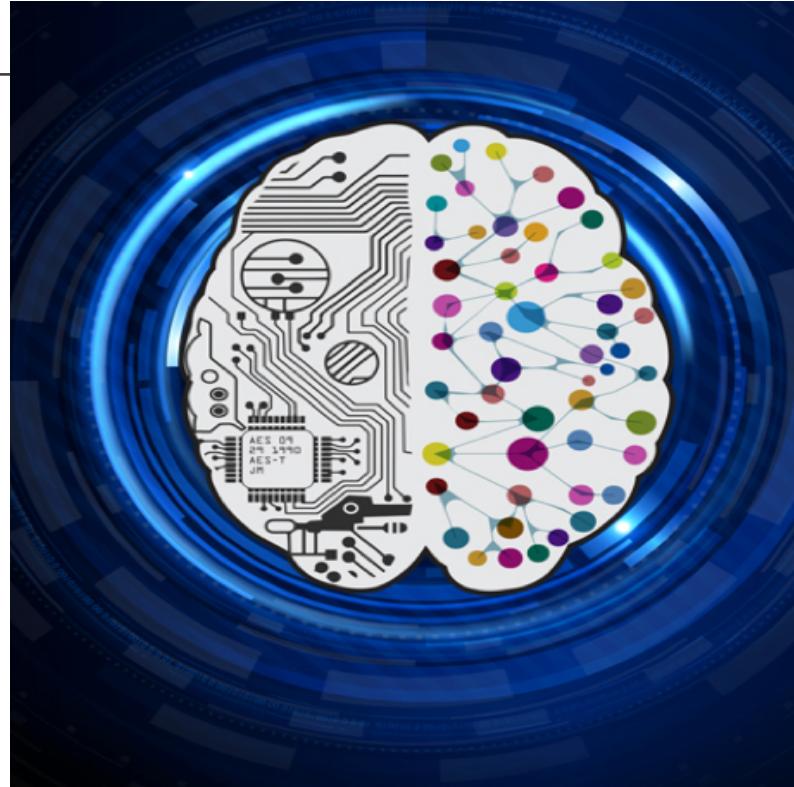
Knowledge Graph



Yewno's AI technology:

- Reads the full text of scholarly documents to extract meaning in the form of a concept
- Uses a neural network model to mimic the human mind
- Creates an inferential chain of connections

POWERED BY
Yewno



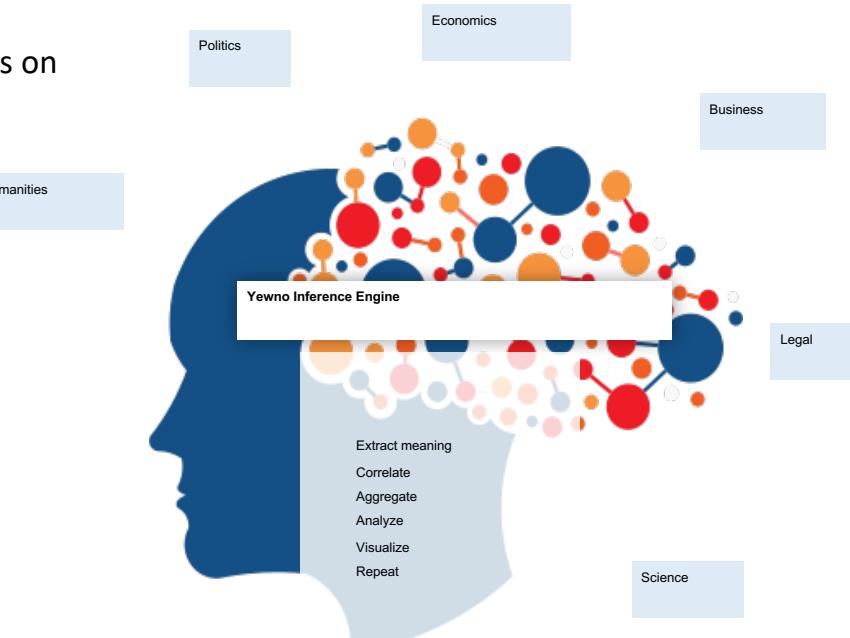
A blend of computational semantics, graph theory and machine learning

Yewno's AI technology understands context and meaning.

- Enable deeper levels of disambiguation e.g “Depression” (mood; geology, economic); “Jaguar” (automobile; cat; band)

- Building **inferences** from information, words on their own mean nothing without context

Millions of diverse sources of unstructured data



Concepts not keywords

Brexit



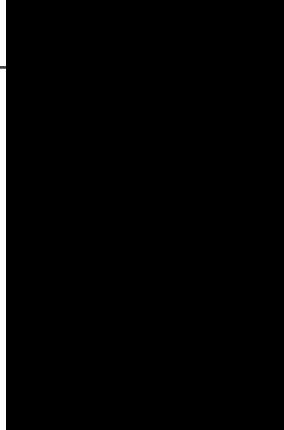
Political Science / Democracy

United Kingdom withdrawal from the European Union

Brexit is the popular term for the United Kingdom's intended

EN

Nurofen



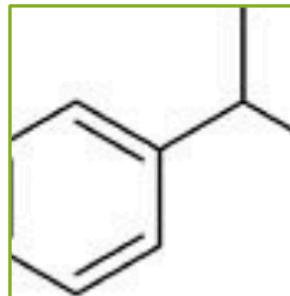
EN

Medicine / Pharmacy

Ibuprofen brand names

The analgesic and non-steroidal anti-inflammatory drug (NSAID) ibuprofen is sold under a wide variety of brand names across the world; the most common being its

- Terms change over time
- A concept/keyword must be attached to a definition



EN

Medicine / Biochemistry

Ibuprofen

Ibuprofen, nonsteroidal anti-inflammatory drug used in the treatment of minor pain, fever, and inflammation. Like aspirin , ibuprofen works by inhibiting the

Understanding context and meaning – 3D Printing

Routes to plastic models and prototypes using the SLS selective laser sintering process

2004 - SPIE

13 minutes

For the production of real technical prototypes injection mould inserts can be produced by the RapidTool process that can be employed for the production of up to 80,000 parts depend on the injected material and part geometry. By changes in the chemical composition and by new processing parameters, average cycle time could be reduced from 4 to 5 days down to 2 to 3 days. Keywords: Rapid Pototyping, Rapid Tooling, Selective Laser Sintering, plastic parts, tooling inserts, injection moulding elastomer, Free Form Fabrication 1. INTRODUCTION The SLS process was developed in 1989 at the University of Texas in Austin. The principle of SLS is illustrated in Fig Layers of fine powdery materials with a specific geometry and specific surface features are applied to a work platform can be positioned accurately in the z-direction. The part to be build is sliced into layers of typically 0.05 to 0.3 mm thickness based on a 3D-CAD-file that describe closed volume (.STL-format).

1995 - American Society of Mechanical Engineers

9 minutes

Rapid prototyping of tools and dies offers an economical alternative to traditional machining. Rapid Tool Making (RTM), a technology that adopts rapid prototyping (RP) techniques and applies them to tool and die making, is becoming an increasingly attractive alternative to traditional machining. The move from traditional machining methods to RTM is more a leap than a step, similar to moving to computer-aided design (CAD) from drafting. RP, also called free form fabrication, uses additive processes to create a physical geometry directly from a CAD file, replacing methods that remove materials. RTM typically requires several steps to create the tool or die. In the indirect method of RTM, a pattern is created by RP and used to form the tool for example, stereolithography followed by investment casting. The other type of RTM produces the tool directly for example, printing a binder onto a metal powder, followed by sintering and infiltration.

Disambiguation drives results and efficiency



Earth Sciences / Geology **Depression (geology)**

A depression in geology is a landform sunken or depressed below the surrounding area. Depressions form by various mechanisms. Erosion-related:

EN



Earth Sciences / Meteorology & Climatology **Low-pressure area**

A low-pressure area, low, or depression is a region where the atmospheric pressure is lower than that of surrounding locations. Low-

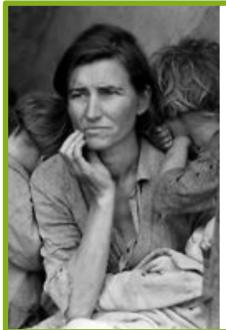
EN



Business & Economics / Money & Monetary Policy **Depression (economics)**

In economics, a depression is a sustained, long-term downturn in economic activity in one or more

EN



Business & Economics / Money & Monetary Policy **Great Depression**

Great Depression, worldwide economic downturn that began in 1929 and lasted until about 1939. It was the longest and most severe

EN



Business & Economics / Money & Monetary Policy **Long Depression**

The Long Depression was a worldwide price and economic recession, beginning in 1873 and running either through the spring

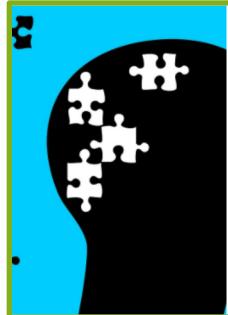
EN



Business & Economics / Money & Monetary Policy **Depression of 1920-21**

The Depression of 1920-21 was a sharp deflationary recession in the United States and other countries, 14 months after the end of World

EN



Psychology / Psychopathology **Depression (mood)**

Depression is a state of low mood and aversion to activity that can affect a person's thoughts, behavior, feelings, and sense of well-being. People with a

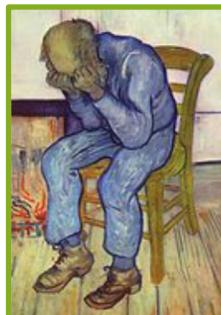
EN



Medicine / Clinical Medicine **Depression (physiology)**

Depression in physiology and medicine refers to a lowering, in particular a reduction in a particular biological variable or the

EN



Psychology / Psychopathology **Major depressive disorder**

Marked depression appearing in the involution period and characterized by hallucinations, delusions, paranoia, and agitation

EN

Dramatically improving discovery and usage

Lupus; Dyspnea; Troponin T; Microgram; C-Reactive Protein; Flow Cytometry; Eosinophil; Bone Marrow Examination; Immunohistochemistry; Eosinophilia; Cardiac Magnetic Resonance Imaging; Sinus Rhythm; Pericardial Effusion; Qrs Complex; Acute Coronary Syndrome; Symptom; Coronary Stent; Anterior Interventricular Branch Of Left Coronary Artery; Colchicine; Nonsteroidal Anti-Inflammatory Drug; Follow-Up; Steroid; Hospital; Chest Pain; Medical Diagnosis; Eosinophilic; Myopericarditis; Churg, ÄiStrauss Syndrome; Biomarker; Ventricular Ejection Fraction; Asthma; Injury; Myocarditis; Cardiac Muscle; Heart Failure; Cardiac Arrhythmia; Thrombus; Differential Diagnosis; Hypersensitivity; Autoimmune Disease; Hypereosinophilia; Meta-Analysis; Clinic; Chronic Eosinophilic Leukemia; Neoplasm; Leukocytosis; Multiple Myeloma; Hypereosinophilic Syndrome; Plasma Cell; Biopsy; Corticosteroid; Adverse Effect; Hydroxyurea; Interleukin 5; Pathogenesis; Monoclonal Antibody; Case Report; Enzyme Inhibitor; Cardiac Muscle Cell; Echocardiography; Ejection Fraction; Exacerbation; Connective Tissue

Concepts extracted using Yewno's technology

New Online Views 1,186 | Citations 0 | Altmetric 2

JAMA Cardiology Clinical Challenge

ONLINE FIRST

August 12, 2020

Chest Pain in a Middle-aged Woman With Asthma

Karl Gordon Patti, MD¹; Ari J. Bennett, MD¹; David A. McNamara, MD, MPH^{1,2}

» Author Affiliations

JAMA Cardiol. Published online August 12, 2020. doi:10.1001/jamacardio.2020.2808

Multimedia



A woman in her 50s with discoid lupus in remission and recent adult-onset asthma presented to the emergency department with 2 weeks of dyspnea on exertion associated with substernal chest pain radiating to her jaw. She noted a 5-kg weight loss in the preceding 3 months. Examination revealed nonreproducible chest tenderness, bibasilar crackles, and no extra heart sounds. A 12-lead electrocardiogram is shown in Figure 1A. Testing revealed leukocytosis (white blood cell count, 16 900 cells/ μ L [to convert to $\times 10^9$ cells/L, multiply by 0.001]) with a differential of 6% neutrophils and 59% eosinophils, an elevated N-terminal pro B-type natriuretic peptide of 3963 pg/mL (reference level, <900 pg/mL [to convert to ng/L, multiply by 1.0]), and an elevated initial troponin T of 0.36 ng/mL, which later peaked at 0.41 ng/mL (to convert to micrograms per liter, multiply by 1.0). Her C-reactive protein level was 3.09 mg/dL (normal, <0.5 mg/dL [to convert to milligrams per liter, multiply by 10]). Subsequent plasma flow cytometry demonstrated 65% eosinophils, and a bone marrow biopsy with immunohistochemistry showed eosinophilia without evidence of clonal expansion. Cardiac magnetic resonance imaging was performed (Figure 1B; Video).

Full Text

Read More About

Cardiology Clinical Challenge Pain Medicine Asthma Pulmonary Medicine

Yewno | Discover

Semantic Concepts Taking Discovery
Beyond the Search

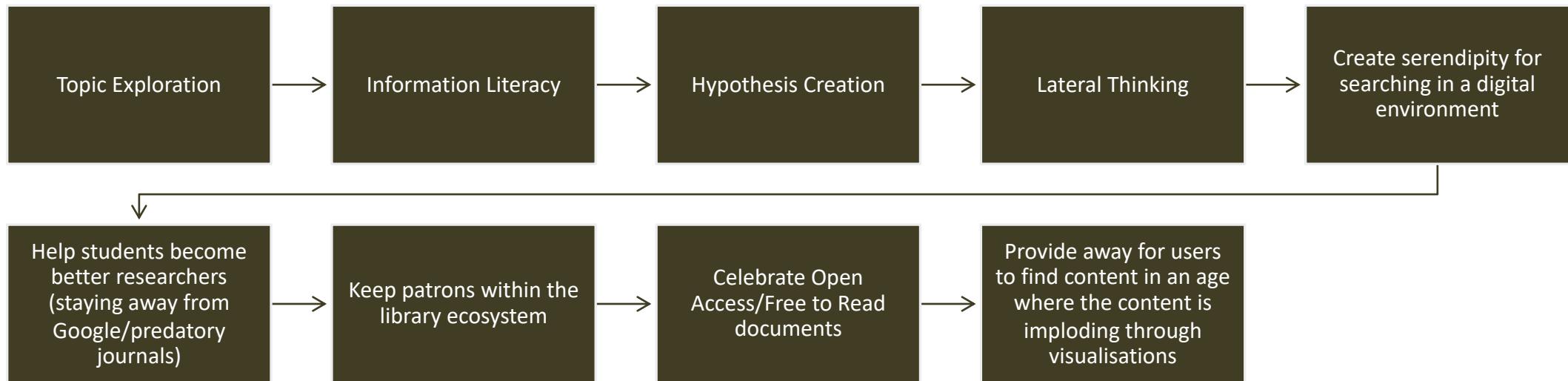
Yewno | Discover

Yewno is a cloud-based product next generation interdisciplinary research tool. Yewno's technology ingested over 500 million items of scholarly documents, government /IGO/NGO documents and news items to extract meaning in the form of a concept providing an inferential chain of connections. The results of a search provided with visualisation.

Yewno Discover provides libraries and users with:

- with over 100 million items of Free to Read/Open Access Content
- Snippets of where concepts are found within documents
- Full integration with Integration with Primo VE

Yewno Discover is created to aid:



The screenshot shows a web browser window with the URL <nottingham-uk-new-primo-sb.hosted.exlibrisgroup.com/primo-explore/search?query=any,contains,global%20w...>. The main page displays a search for "global warming" with various search filters like "All items" and "that contain my query words". A knowledge map is visible on the left, showing concepts like "Effects of global warming", "Ozone depletion and clim...", "Global warming controversy", "Nuclear winter", and "Climate change feedback" connected to the central "Global warming" node. Below the map is a summary of the topic "global warming" and a list of results, including an article by McGlade, Christophe; Ekins, Paul from Nature (London) 2015-01-07, Vol.517 (7533), p.187-190.

Yewno Primo Addon
Hook: prm-back-to-library-search-button-after

This widget presents a mini Yewno Discover knowledge map on a webpage. Given a query via Primo, it fetches and renders the closest matching concept and its top related concepts from the Yewno concept graph.

Yewno

[View in Github](#) [+ Add](#)



Yewno Discover integrated directing with Primo VE. The Yewno Discover Dynamic Widget can be downloaded via the Primo Studio. Yewno will provide an API key for installation.

When a user clicks on the widget it will launch Yewno Discover.

Search Discovery: Corvinus University of Budapest University Library

Keyword

Search
?

[Basic Search](#) [Advanced Search](#) [Search History ▾](#)

Results**Search**

All my search

Books

Readers

Related words

Equivalent

Synonyms

Text

Reviewed

Only

Publication

2021

e

Types

Results

Academic Journals

(9,508)

Electronic Resources

(486)

Magazines (79,992)

Dissertations/Theses

(14)

Books (28,358)

Search Results: 1 - 20 of 2,249,440

Relevance ▾ Page Options ▾

CORVINUS UNIVERSITY
BUDAPEST

Econbiz ▾

ECONBI

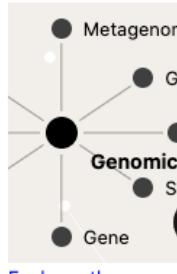
Dart-Europe ▾

DART eU

Matarka ▾

MATARKA

Yewno ▾

**1. Könyv Monográfia/ Book Mammalian embryo genomics [nyomtatott anyag]**

Book

Paris : OECD, 2003 121 p. ; 23 cm Language: English, Database: BCE Catalogue

[Check catalog item](#)

Location	Call No.	Status
Gazdálkodástudományi olvasó	43 M 25	elérhető
Show More (1)		

Corvinus uses EBSCO Discovery Service and their “Super Search” with our widget embedded on the first page of results.

2. Melanoma Genomics.

Academic Journal

By: NEWTON-BISHOP, Julia A.; BISHOP, D. Timothy; HARLAND, Mark. *Acta Dermato-Venereologica*. 2020 Special Issue, Vol. 100, p266-271. 6p. DOI: 10.2340/00015555-3493. , Database: Academic Search Complete

Subjects: GENOMICS; DYSPLASTIC nevus syndrome; MELANOMA; ULTRAVIOLET radiation; GENETIC code; EUROPE

[PDF Full Text \(1.9MB\)](#)**Video Results (3 of 24)**[View all results](#)

Chinese lab process DNA samples of tsunami victims



USA: SCIENTISTS IDENTIFY GENE WHICH CAUSES



Scientists find genetic cause of multiple sclerosis



The screenshot shows the Yewno Discover search interface. The left sidebar includes sections for 'SEARCH' (with a magnifying glass icon), 'JOURNEY' (with a person icon), 'NOTEBOOK' (with a clipboard icon), and 'SETTINGS' (with a gear icon). The main search bar at the top contains the query 'Artificial Intelligence'. Below the search bar, the 'Active Filter' dropdown is set to 'Academic'. The search results are displayed in a grid format:

- Artificial intelligence**: A result from 'Computers & Computer Science / Artificial Intelligence' with a thumbnail of a person's face. An orange arrow points from the right towards this result.
- Artificial intelligence in fiction**: A result from 'Computers & Computer Science / Artificial Intelligence' with a thumbnail of a glowing red eye. A second orange arrow points from the right towards this result.
- Artificial Intelligence (journal)**: A result from 'Language Arts / Publishing' with a thumbnail of a typewriter keyboard. A third orange arrow points from the right towards this result.
- Computer Science / Computer Science**: A result with a thumbnail of a modern building. This result is partially visible at the bottom of the screen.

On the far right, there are several icons: a camera icon labeled 'Snapshot', a line graph icon labeled 'Multi-Select', and a stack of documents icon labeled 'Layer'.

On searching a concept, Yewno Discover disambiguates asking the user to focus their research are.

The user will then select the concept of their choice

discover.yewno.com/concept/ae4c2367aa158efc4e7f5055a848f38c?active=eng&displayed=eng&searched=eng&domains=ACAD...

Artificial intelligence

Computers & Computer Science / Artificial Intelligence
Psychology / Cognitive Science

Back FAVORITE

SEARCH

JOURNEY

NOTEBOOK

DEFINITIONS

Artificial intelligence (AI), the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings. The term is frequently applied to the project of developing systems endowed with the intellectual abilities characteristic of humans.

Britannica Academic

Theory and development of COMPUTER SYSTEMS which perform tasks that normally require human intelligence. Such tasks may include speech recognition, LEARNING; VISUAL PERCEPTION; MATHEMATICAL COMPUTING; reasoning, PROBLEM SOLVING; decision making.

Medical Subject Headings

Artificial intelligence (AI) is intelligence exhibited by machines. In computer science, the field of AI research defines itself as the study of "intelligent agents": any device that perceives its environment and takes actions that maximize its chance of success at some point in time.

Source

Yewno Unearthed

SETTINGS

HELP CENTER

Yewno

Snapshot

Multi-Select

Layer

DEFINITIONS

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Source

Yewno Unearthed

SETTINGS

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Yewno

Notes

Yewno holdings are included in documents of these concepts.

Yewno's algorithms now read over 500m items of documents to generate a knowledge graph showing concepts that are relevant to the search.

Each concept comes with a definition from a referenced source.

Hovering over the concept nodes, you can see, for example, that Machine Learning is not only connected to AI but also other concepts within the knowledge map.

[discover.yewno.com/concept/a0c38ecfa70fe19286de5193cab7684a?active=eng&displayed=eng&searched=eng&domains=ACAD...](#)

Back FAVORITE

Machine learning

Computers & Computer Science / Machine Learning
Psychology / Connectionism
Mathematics / Probability & Statistics

Overview Concepts Documents

DEFINITIONS

Machine learning, in artificial intelligence (a subject within computer science), discipline concerned with the implementation of computer software that can learn autonomously. Expert systems and data mining programs are the most common applications for

Britannica Academic

A type of ARTIFICIAL INTELLIGENCE that enable COMPUTERS to independently initiate and execute LEARNING when exposed to new data.

Medical Subject Headings

Machine learning is the subfield of computer science that, according to Arthur Samuel in 1959, gives "computers the ability to learn without being explicitly programmed." Evolved from the study of pattern recognition and computational learning theory in

Source

Yewno Unearth

SETTINGS

HELP CENTER

Snapshot

Multi-Select

Layer

Notes

holdings are included in documents of these concepts.

When a user clicks on an existing node in the knowledge map amplifies to see the connections interconnecting the two concepts.

← → C 🔍 discover.yewno.com

🔍 ⭐ 🌐 ○ B ✎ 📸 📈 Multi-Select Layer



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Robotics

Active Filter

Domain

Academic

Government Documents

Clear Knowledge Map to change domain

Language

English

中文/Chinese

Deutsch/German



Technology & Engineering / Robotics

Robotics

Robotics, Design, construction, and use of machines (robots) to perform tasks done traditionally by human beings. Robots are widely used in such industries as

EN



Literature / Comics & Graphic Novels

Robotics;Notes

Robotics;Notes is a Japanese visual novel developed and published by 5pb. The game was released on the PlayStation 3 and Xbox 360 video game consoles on June 28, 2012.

EN

Yewno Unearthed



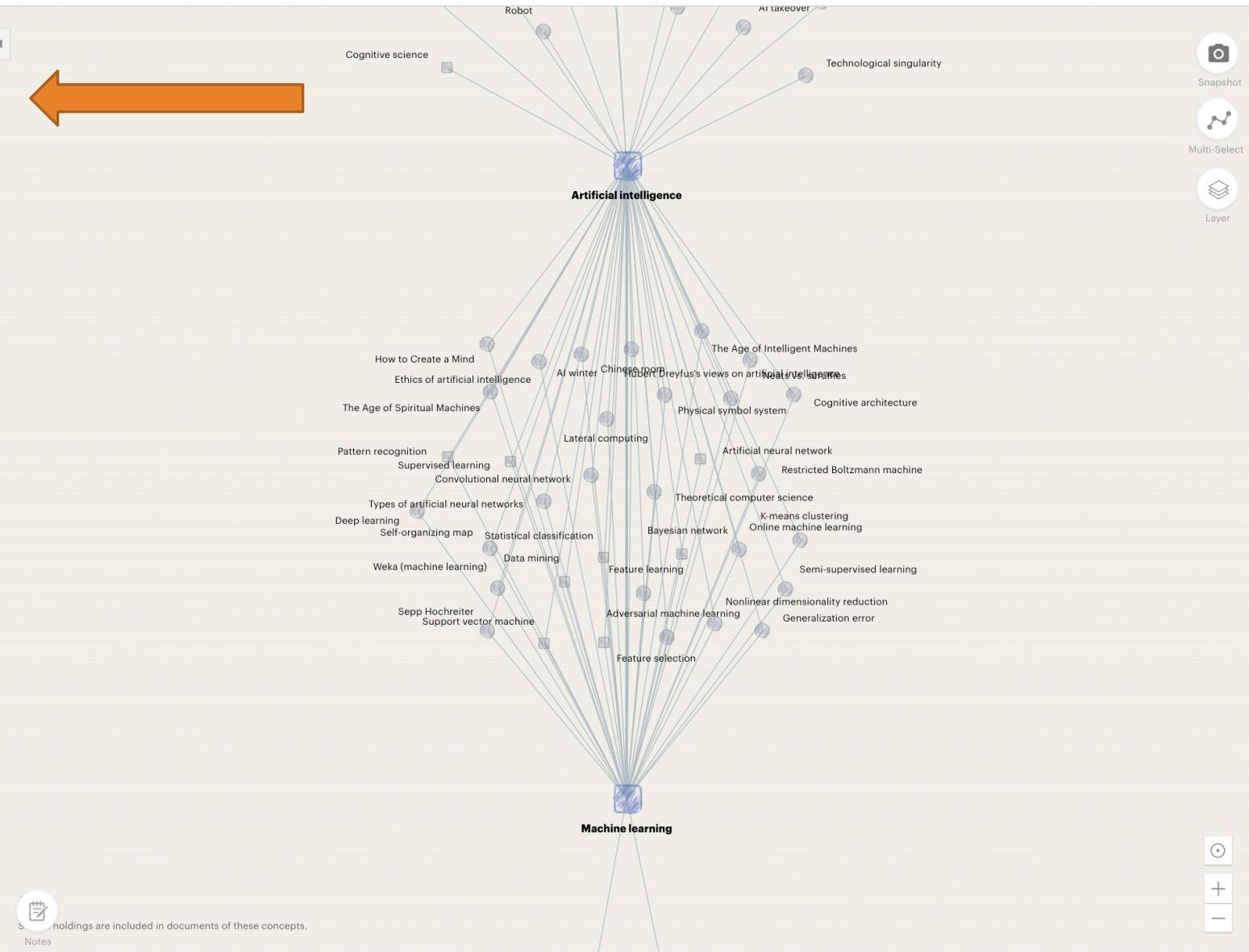
Technology & Engineering / Robotics

Robotics Institute

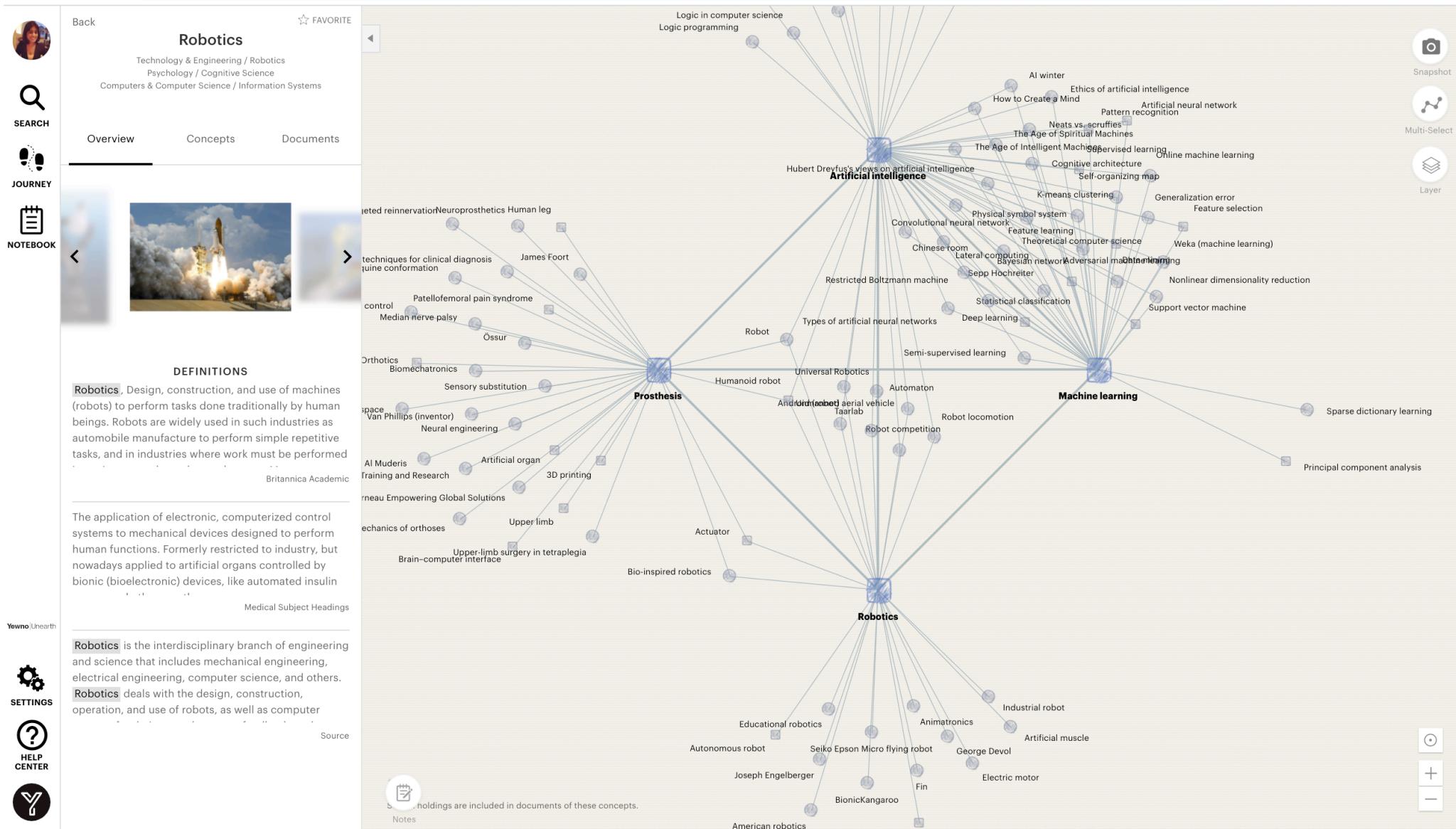
The Robotics Institute (RI) is a division of the School of Computer Science at Carnegie Mellon University in Pittsburgh, Pennsylvania, United States. A June

EN

EN

...holdings are included in documents of these concepts.
Notes

Users can also search add their other concepts to the knowledge map, for example, as part of their hypothesis. Again, concepts are requested to be disambiguated.



Here you can see two concepts that have been added to the knowledge graph, Robotics and Prostheses now. The knowledge map has now expanded further and show all the interconnecting concepts.

On selecting a concept, the user can click on Documents section where there are documents that are semantically relevant to your search. There are filters for

- Source types: **Electronic Holdings, Free to Read etc.**
- Document Type
- Topics
- Languages (Development Area)
- Date

Robotics

Technology & Engineering / Robotics
Psychology / Cognitive Science
Computers & Computer Science / Information Systems

[Overview](#) [Concepts](#) **Documents** [Clear Filters](#)

Filter Documents By

Availability

- All Sources
- Free to Read 7061 Electronic Holdings 0
- Institution Author 0

Document Types

- All Document Types
- Reference 4677 Article 2998
- Dissertation 165 News 105
- Book 85 Chapter 25

[Show All Types](#)

Topics

- All Topics
- Technology & Engineer... 6229 Earth Sciences 4743
- Computers & Computer ... 2242 Education 1949
- Medicine 1409 Geography 1277

[Show All Topics](#)

Languages

- All Languages
- English Deutsch/German
- 中文/Chinese

Publication Date

2020 to 2020 [Clear Date Range](#)

8065 Documents [Back to Knowledge Map](#)

Scientific and Technological Challenges in RoboCup

In this article, we provide an overview of RoboCup, including its league structure and related research issues. We also review recent studies across several research categories to show how participants (called RoboCuppers) address the research and...

2020 - Annual Reviews

Nanotechnology Past and Present

Faculty Wendy C. Crone 2010 Geometric Programming for Design and Cost Optimization (with Illustrative Case Study Problems and Solutions) Robert C. Creese 2009 Style and Ethics of Communication in Science and Engineering Jay D. Humphrey and Jeffrey...

2020 - Morgan & Claypool Publishers

Design of a positioner for robotic control and measuring stations

Design of a positioner for robotic control and measuring stations M. Bajorla a AGH University of Science and Technology, Faculty of Mechanical Engineering and Robotics, Department of Process Control. al. Mickiewicza 30, 30-059 Cracow, Poland...

2020 - SPIE

A novel multi-brand robotic software interface for industrial additive manufacturing cells

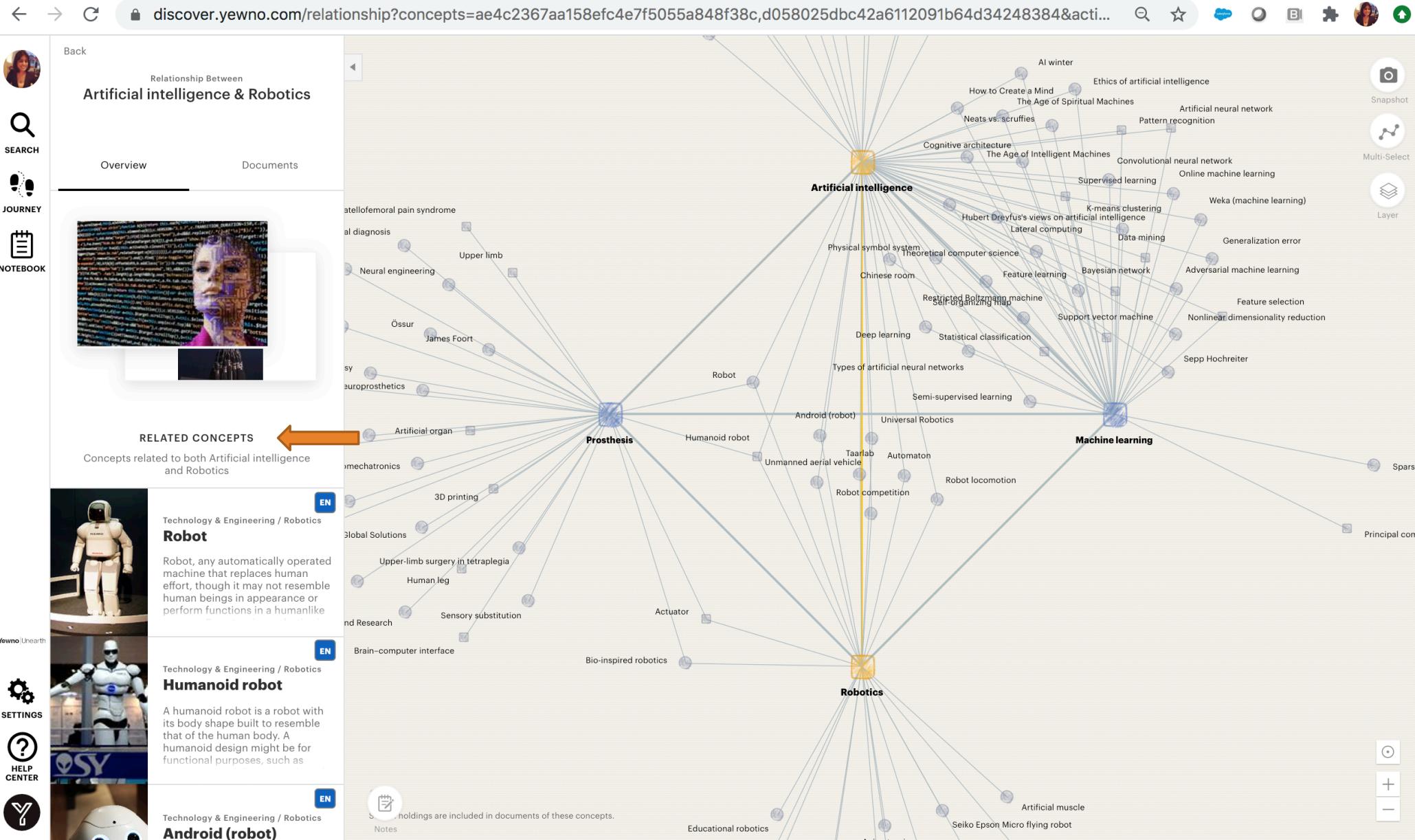
To conclude, with the solutions exploited, this article reports a step forward into the development of a fully functional generic AM cell. Our final objective is to implement an AM system that is independent of any robot manufacturer brand and uses...

2020 - Emerald

Design and development of the efficient anguilliform swimming robot— MAR

It appears however, that these results do not match the performance figures published by the manufacturer Blue Robotics , which is possibly due to the age of the used device and an imperfect measurement setup. Although the latter might have also...

2020 - IOP Publishing



When clicking on the strand between the two concepts, Yewno Discover will show the user Related Concepts and again the user can click on the Documents button to see documents which feature the relationship between two concepts



Back

Relationship Between

Artificial intelligence & Robotics



SEARCH



JOURNEY



NOTEBOOK



Yewno Unearth



SETTINGS



HELP CENTER



Back to document list

Live human-robot interactive public demonstrations with automatic emotion and personality prediction

2019 - The Royal Society

48 minutes

Conclusion The availability of commercial robotic platforms and developments in collaborative academic research show we have achieved a lot, but the cognitive and social capabilities of the current humanoid robots are still very limited. There is a genuine need for scientists working in the fields of robotics and artificial intelligence to demonstrate their work and engage the public. As emphasized on the EPSRC's website,⁵ this is important for two reasons: (i) to demystify the humanlike robots and to help the general public become technology literate by creating a better understanding of the abilities and the potential of these robots and (ii) to acknowledge the public's concerns and get to know their view that can help steer how we develop human-like robots in the best interests of society. In this paper, we presented the design and implementation of a number of live public demonstrations we have conducted in the period of 2015–2017 with the two proposed systems, namely the MAPTRAITS-HRI system and the TeachMeEQ system, in the context of science communication.

Related Snippets

1 2 3 4

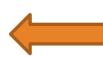


Back to Knowledge Map

FAVORITE

[Find Full Text At Your Library](#) UNIVERSITÀ CATTOLICA del Sacro Cuore

ADDITIONAL LINK(S)

[The Royal Society](#)

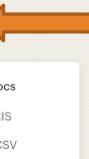
When the user clicks on a document from the Document list, they will be shown all the document details at the bottom as well snippets from within the text from where the concepts features, a button to the link resolver and a link back to the publisher site

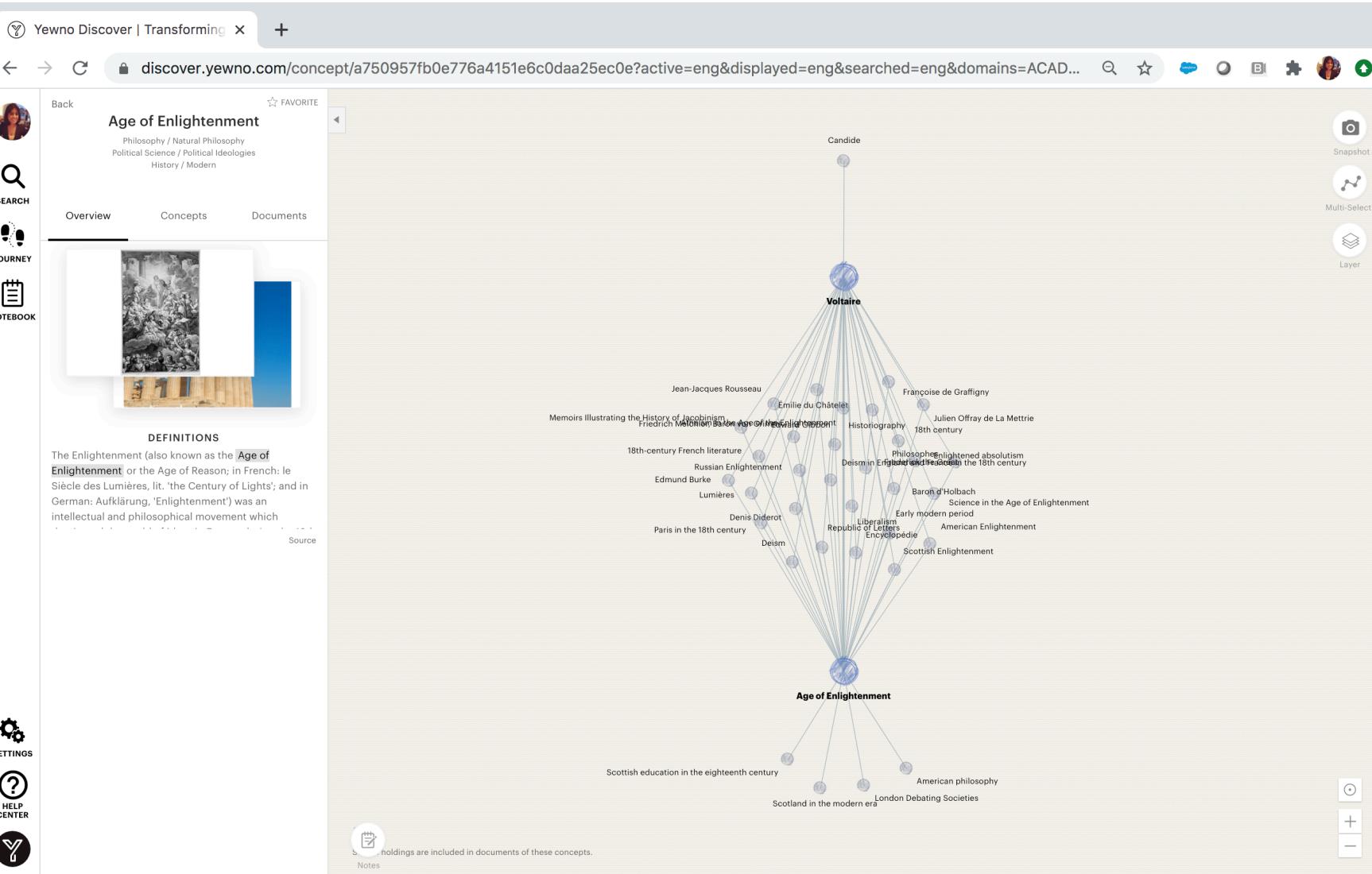


Filter



- Favorite Knowledge Map
- All to Google Docs
- Documents to RIS
- Documents to CSV





Here is an example from Humanities, Yewno
Discover is not just for STEM searching

discover.yewno.com/concept/87a6cb71f524176c785b9ae928a57101?active=eng&displayed=eng&searched=eng&domains=ACAD...

Back FAVORITE

Gender equality

Social Science / Marriage & Family

Overview Concepts Documents

The diagram illustrates the complex nature of gender equality through a network of interconnected concepts. At the center is the concept 'Gender equality'. Radiating from it are numerous other concepts, each represented by a small blue square icon and a larger grey circular node. These include: Women's rights, Gender disparities in health, Women's health in India, Honor killing, Women in Islam, Family, Rape statistics, Gender inequality in India, Adultery, Woman, Violence against women in the Philippines, Domestic violence, Sexism, Violence against women, Women in Asia, Marital rape, Convention on the Elimination of All Forms of Discrimination Against Women, Women in India, Reproductive rights, Child marriage, Gender equality in New Zealand, Wife, Feminism, Sexual violence, and Marriage.

DEFINITIONS

Gender equality, also known as sexual equality, is the state of equal access to resources and opportunities regardless of gender. It is achieved through gender neutrality and gender equity. "Gender equality, equality between men and women, entails the concept

Source

Yewno Unearth

SETTINGS

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Notes

holdings are included in documents of these concepts.



SUSTAINABLE DEVELOPMENT GOALS

NEW – search by the 17 United Nations Sustainable Development Goals

discover.yewno.com/concept/cd8d87ad8fb347df01d4036d0f0e6b1?active=eng&displayed=eng&searched=eng&domains=ACAD...

 Back 

Covid-19

Medicine / Infection Control

Overview Concepts Documents 

Filter Documents By 

Document Types All Document Types News 28174 

Topics All Topics 

	Medicine	27047	Earth Sciences	12542
Geography	9505	Business & Economics	8748	
Social Science	6348	Technology & Engineering	4443	
Health & Fitness	3535	Political Science	2602	
Law	1817	Education	1347	

Languages All Languages 

	English	Deutsch/German
中文/Chinese		

Publication Date 

YYYY	to	YYYY
------	----	------

28174 Documents 

Bold Action Needed to Save Medicare, Says MedPAC Commissioner 

Heading out of MedPAC this year, I feel a greater sense of urgency to solve this problem than when I started ... I join in the choir of past commissioners to encourage all of us to be brave and bold and earnest in this work. "Burton, in her...

2020 - MedPage Today

Australia 'hurt the feelings' of China with calls for coronavirus investigation, senior diplomat says 

One of China's most senior diplomats has refused to say the coronavirus pandemic originated in Wuhan, while accusing the Australian Government of damaging the relationship between the two countries with calls for an independent investigation into...

2020 - Australian Broadcasting Commission

Qingdao marks more progress against coronavirus 

Good news continued to come in the fight against the recent coronavirus outbreak in Qingdao, Shandong province, as three of 13 patients were eligible for discharge from the hospital, a senior city official said on Tuesday. " Two of them were...

2020 - China Daily

Coronavirus: Evening update 

A modern browser with JavaScript and a stable internet connection are required to view this interactive. Enter a full UK postcode, English, Welsh or Northern Irish council name, or Scottish health board name to find out Deaths are death...

2020 - BBC

Covid-19 cases spreading 'rapidly' in Orkney 

NHS Orkney says it is "profoundly concerned" that Covid-19 is spreading "rapidly" across the islands. The health board's chief executive Michael Dickson said several people had developed symptoms and travelled to homes in the isles and the...

2020 - BBC





NEW – Yewno Discover has now incorporated 42 News streams into the Knowledge Graph allowing searching between academia and media

Yewno | Unearth

The Library Repository

Uses the power the Yewno Knowledge Graph
to:

- Explore content across your repository
- Create semantic metadata to improve discovery
- Connect your documents and authors



Yewno Unearth: You can also explore each item of repository content in detail...

Yewno Unearth – where all repository content can be analyzed at topic, sub-topic and concept level.

You can search by Topic, Concept, Author, Title and/or ISBN

Filters can be applied to search by document type and institution

The screenshot shows the Yewno Unearth interface. At the top, there is a yellow circular icon with a white 'D' and a search bar labeled 'Search...'. Below the search bar, the text 'Topic ▾' is visible. On the left side, there is a sidebar with the text 'Università Cattolica' and a magnifying glass icon. The main content area displays search results for 'Topic'. A section titled 'Narrow Your Search by Topic and Subtopic' lists various categories with their percentages: Computers (36%), Medicine (18%), Psychology (14%), Technology & Engineering (7%), Social Science (4%), Business & Economics (3%), Geography (2%), Web & Social Media (2%), Language Arts (2%), Mathematics (2%), Education (2%), Philosophy (1%), Life Sciences (1%), Religion (1%), and Physics (1%). To the right, two document cards are shown. The first card, titled 'An integrated Approach to the Ergonomic Analysis of VR in Psychotherapy: Panic Disorders, Agoraphobia and Eating Disorders' (IOS Press, 2004), has a gray circular thumbnail and a blue vertical bar with three horizontal bars. The second card, titled 'The Role of Immersion and Narrative in Mediated Presence: The Virtual Hospital Experience' (Mary Ann Liebert Inc, 2011), also has a gray circular thumbnail and a blue vertical bar with three horizontal bars. Both cards show the percentage of topics they contain: 76% for Computers and 24% for Technology & Engineering in the first, and 69% for Computers in the second.

Speed up discovery by exposing the exact sections of text

Number of topics and sub-topics varies

Approx. 11 concepts per abstract and on average 80 per journal article

When clicking on a document, snippets of Concepts can be viewed by clicking on the Concepts and search where else those concepts are found from within the Library Repository. The concept can also be launched in a Knowledge Graph if connected to Yewno Discover (see next slide)

The screenshot shows a library search interface with a sidebar on the left and a main content area on the right.

Left Sidebar:

- Do (yellow circular icon)
- Università Cattolica (text)
- Q (magnifying glass icon)
- / (forward slash icon)
- Y (blue stylized letter Y icon)

Main Content Area:

- Search Bar:** Title ▾ and a search input field with placeholder "Search...".
- Document Preview:** A large, empty rectangular box labeled "article" below it.
- Publication Details:** 2011, The Role of Immersion and Narrative in Mediated Presence: The Virtual Hospital Experience, Alessandra Gorini, Claret S. Capideville, Gianluca De Leo, Fabrizia Mantovani, Giuseppe Riva
- Metadata:** ISSN 21522715, Link <http://dx.doi.org/10.1089/cyber.2010.0100>
- Topics:** A section titled "TOPICS" with a bar chart showing the distribution of topics. The chart has blue bars of varying heights. Next to the chart, there are two items:
 - ▶ Computers (69%)
 - ▶ Literature (31%)
- Concepts:** A section titled "CONCEPTS" with the following text:

These are concepts that appear in this document. Expand a concept to read relevant excerpts from the document.

▼ Virtual reality Q

... creating an effective virtual reality experience because they contribute differently to increasing the sense of presence. Immersion increases the place illusion, while the narrative contributes to generating an emotional response and strengthening the subjects' sense of inner presence.

... context influence the users' sense of presence, providing a more compelling experience than a non-immersive and non-contextualized virtual space. Eighty-four students, randomly divided into four groups, were asked to find a blood container inside a...

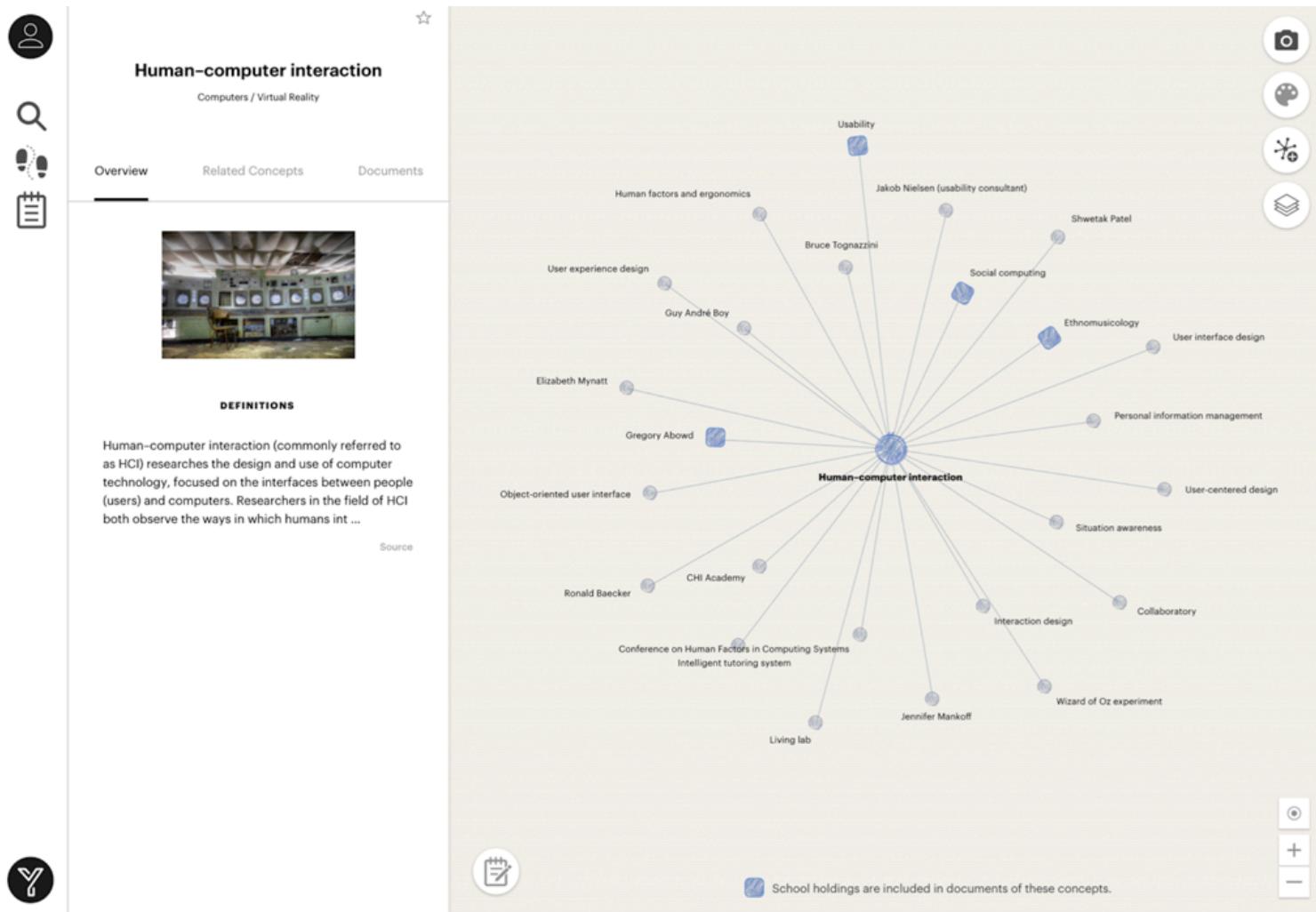
Specifically, we tested if an immersive technology and/or a meaningful narrative context influence the users' sense of presence, providing a more compelling experience than a non-immersive and non-contextualized virtual space. Eighty-four students...

Step 2 – Yewno Discover

Once content has been analyzed using Yewno Unearth, users can search concepts within Yewno Discover

This will enable visualization of concepts from the repository AND from academia

Research output/repository visualization

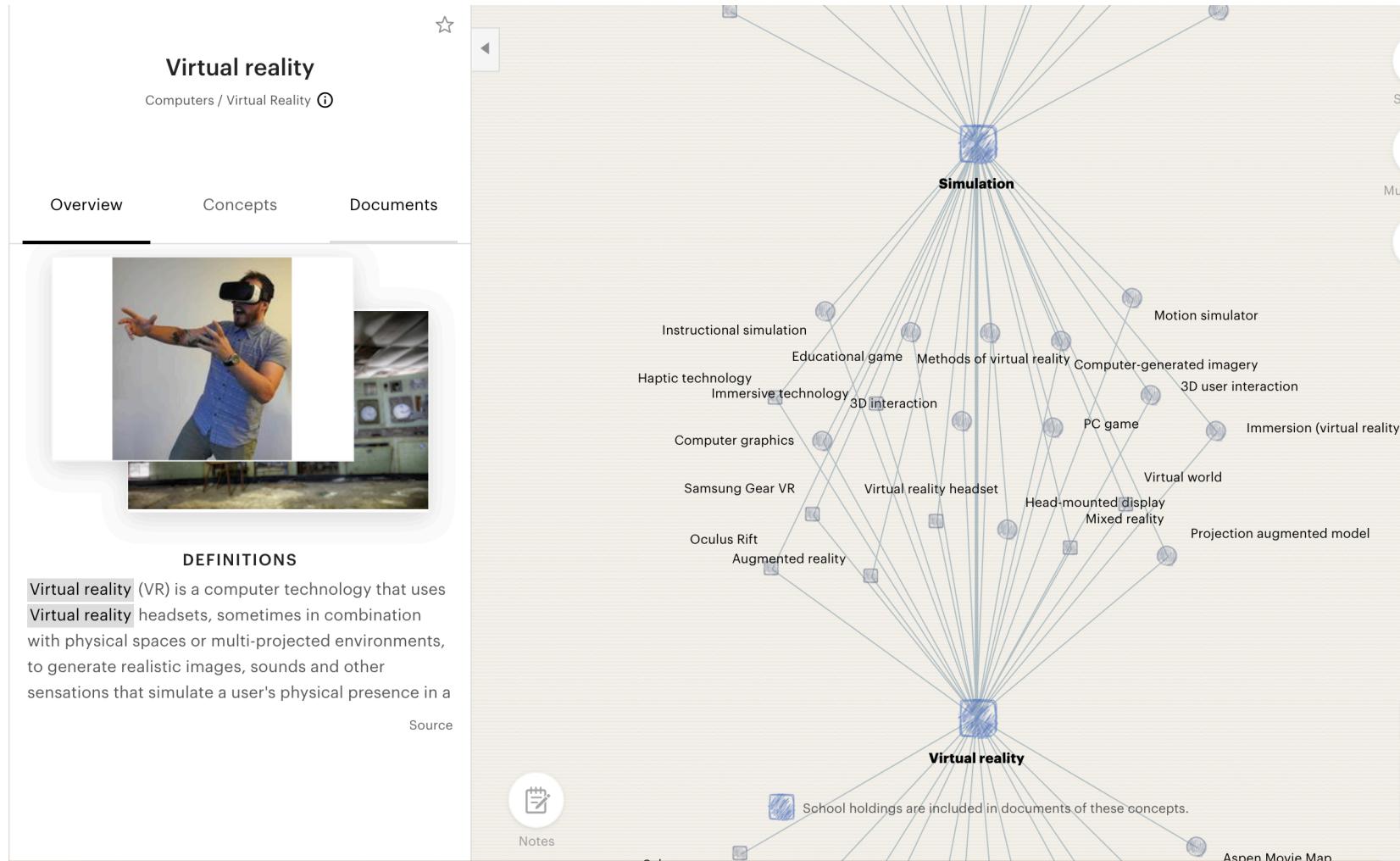


Yewno Discover:

Visualize concepts found with your repository within the Yewno Discover Knowledge Graph where patrons can find related concepts, definitions and associated documents and snippets.

Within the Documents section, a filter will be created where patrons can filter by Institution Author and a link back to the Library Repository will be provided (see next slides)

Repository content clearly indicated



Currently in Yewno
Discover, the **circles** denote
concepts found within
Yewno's Knowledge Base, if
you include the Library
Repository Yewno Discover
will show **squares** to denote
concepts that are in
Yewno's Knowledge Base
AND the Library
Repository.

Filters

Availability

All Sources

Free to Read

61596

Electronic

52357

Institution Author

80



Initial filter shows all documents

When clicking on Institution Author the filters update to show OA and licensed content along with total content in repository

Availability

All Sources

Institution Author

80

Electronic

17

Free to Read

4

Link to the text

[Back](#) ☆

☆ [Back to document list](#)

Virtual reality

Computers / Virtual Reality ⓘ

[Overview](#) [Concepts](#) [Documents](#)

Filter Documents By Clear Filters

Availability

All Sources			
Institution Author	80	Electronic	17
Free to Read	4		

Document Types

All Document Types	
Article	80

Topics

All Topics			
Computers	65	Medicine	45
Psychology	41	Earth Sciences	38
Technology & Engineer...	24	Business & Economics	13

[Show All Topics](#)

Languages

All Languages	
English	80

Publication Date Clear Date Range

[Back to Knowledge Map](#) ☆

Virtual Reality for Artificial Intelligence: human-centered simulation for social science

2015 - IOS Press
1 minutes

However, while engineers' simulations can be performed in the physical world using robots, for social scientist this is impossible. For decades, researchers tried to improve simulations by endowing artificial agents with simple and complex rules that emulated human behavior also by using artificial intelligence (AI). To include human beings and their real intelligence within artificial societies is now the big challenge. We present an hybrid (human-artificial) platform where experiments can be performed by simulated artificial worlds in the following manner: 1) agents' behaviors are regulated by the behaviors shown in Virtual Reality involving real human beings exposed to specific situations to simulate, and 2) technology transfers these rules into the artificial world.

Document Information

Journal ANNUAL REVIEW OF CYBERTHERAPY AND TELEMEDICINE

Title Virtual Reality for Artificial Intelligence: human-centered simulation for social science

Authors Cipresso, Pietro / Riva, Giuseppe

ISSN 15548716

Reading Time 1 minutes

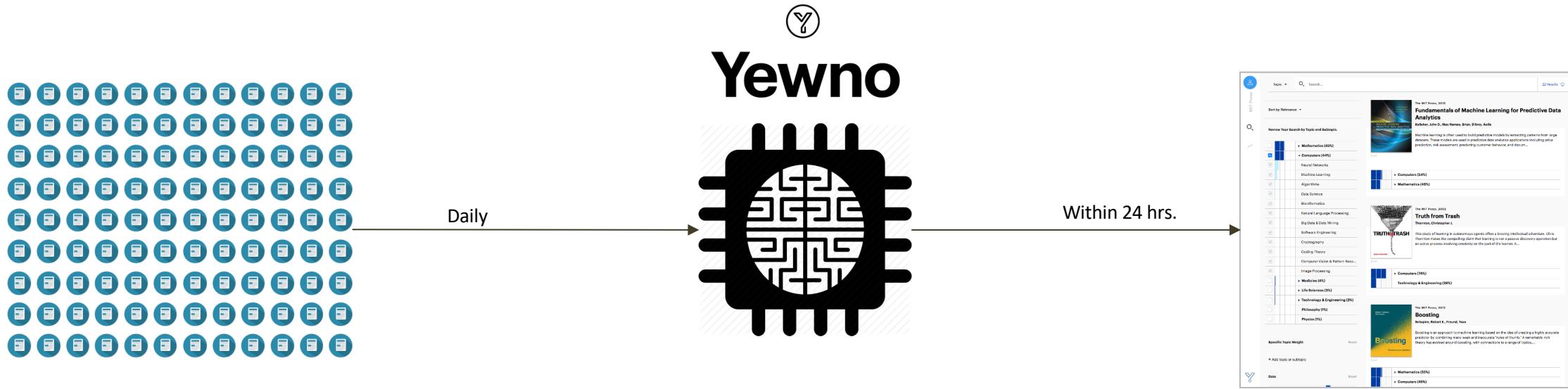
Find full text at your library  UNIVERSITÀ CATTOLICA del Sacro Cuore

FULL TEXT AVAILABLE cattolica



When users find a document of choice, they can get access to the document via the link resolver and there will also be a link to the library repository website

Keeping content updated

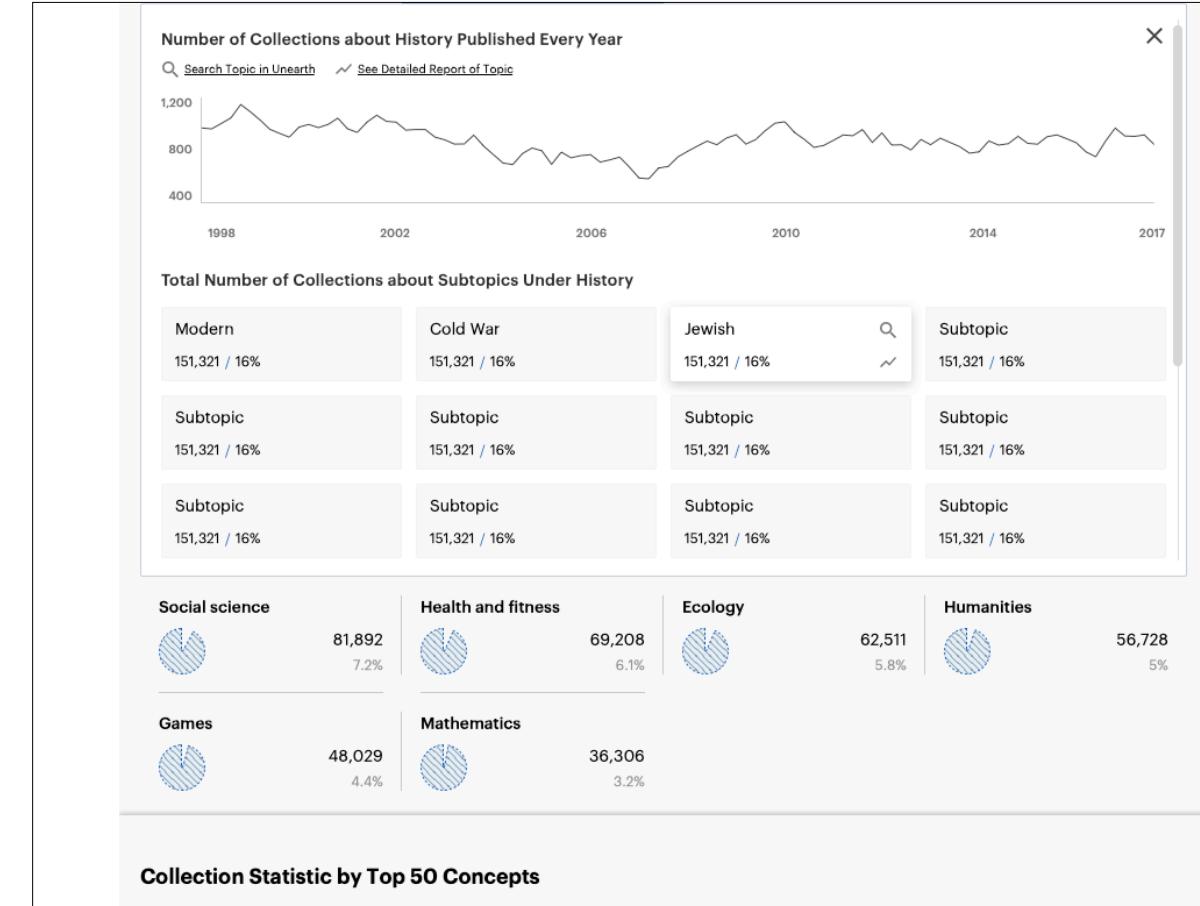
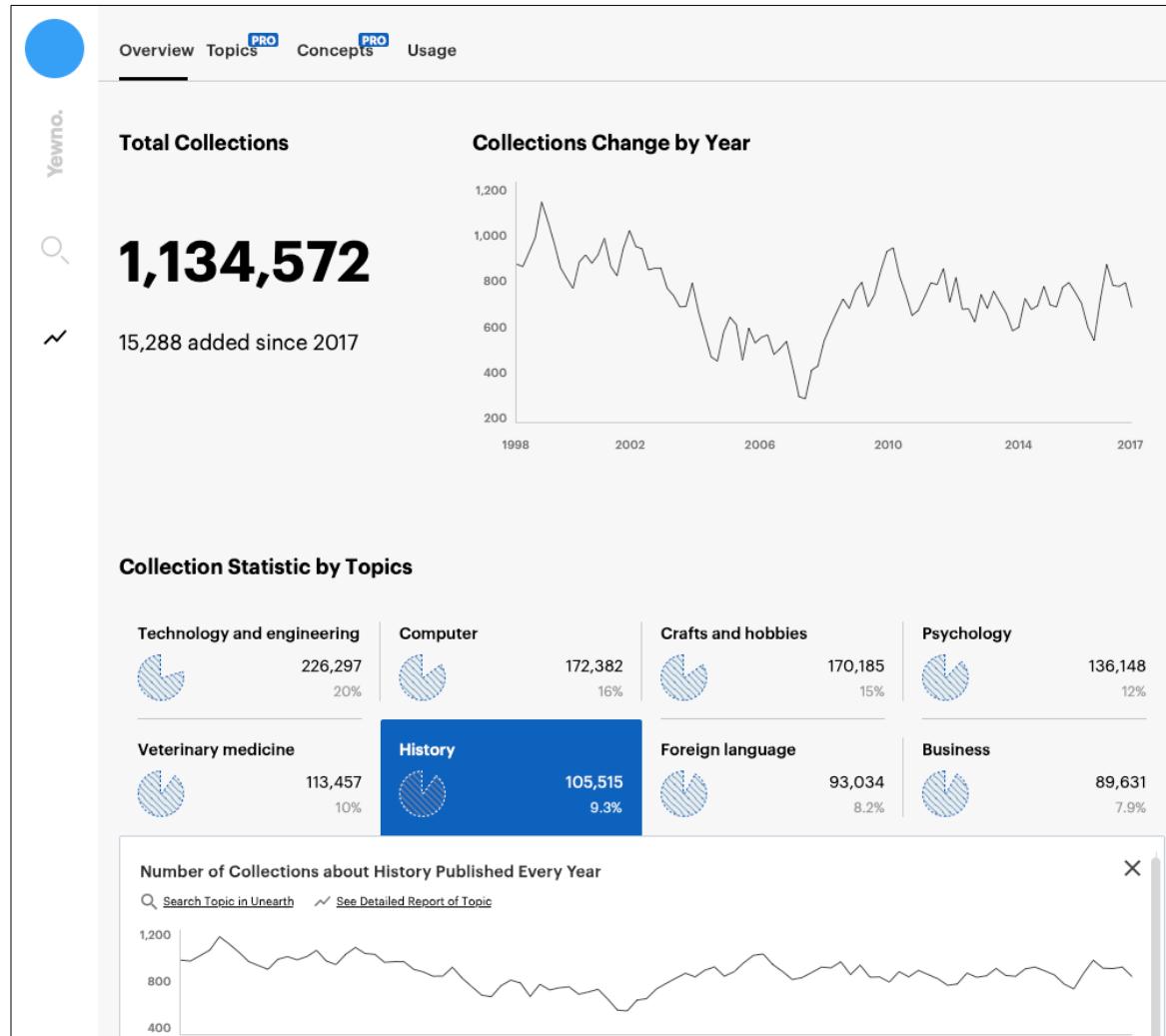


- Repository data can be sent to us and it will be available in the UI within 24 hours
- Cataloguers can find items by title or author
- Content is also updated daily; bulk download feature updated monthly, or as required

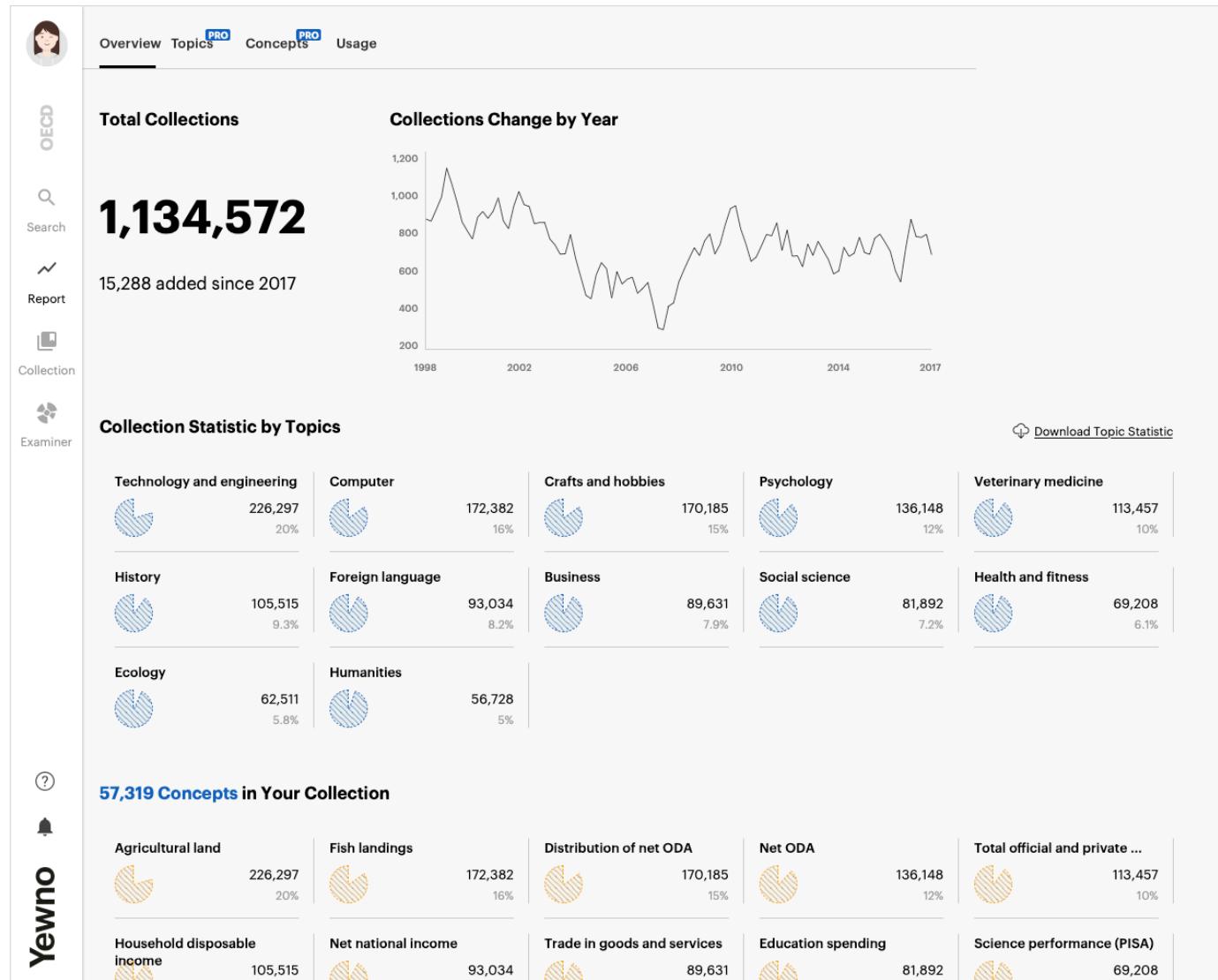
Yewno Unearths Components for Future Thoughts

UNDERSTANDING
RESEARCH OUT-PUT

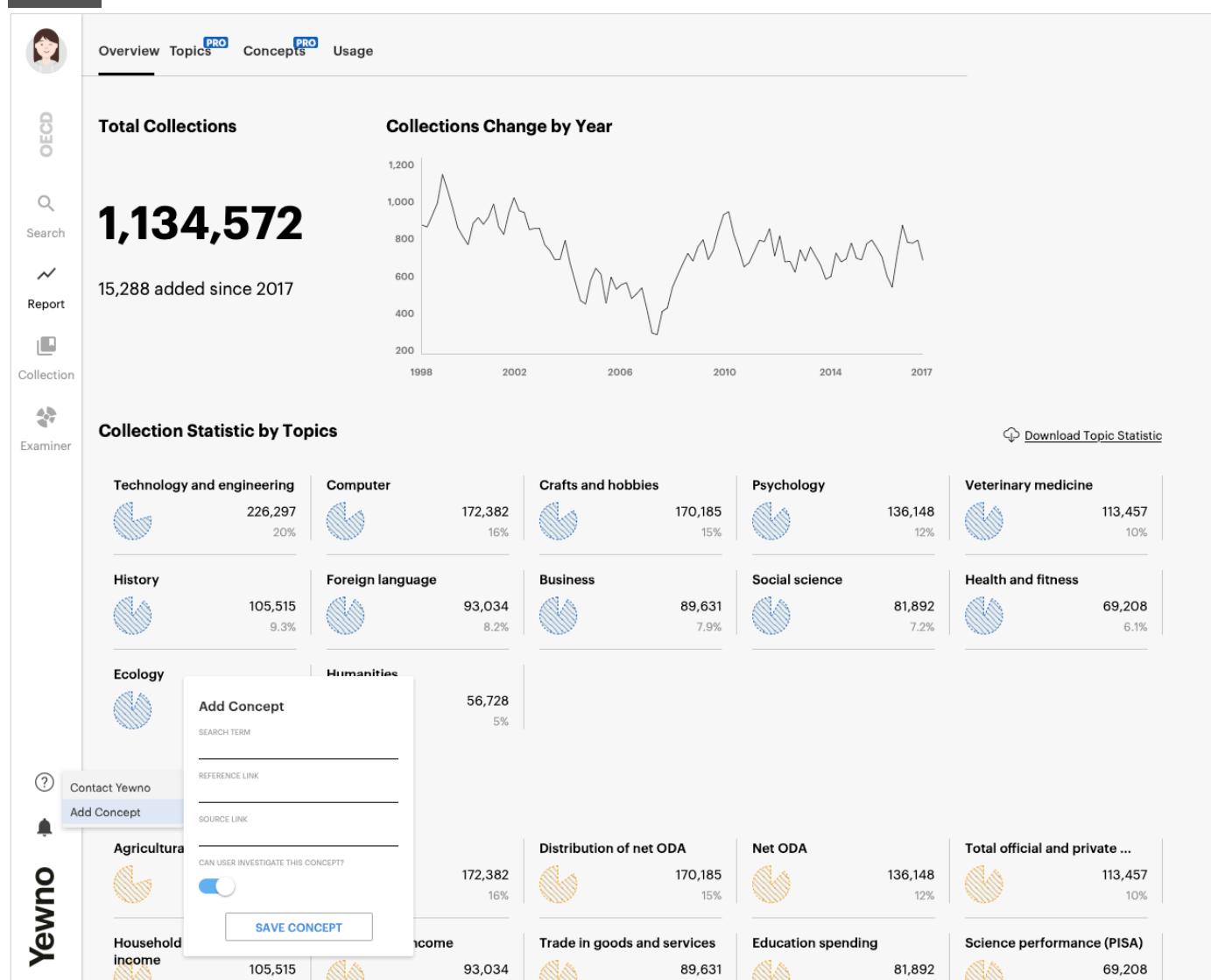
DASHBOARD – CREATED WHEN COMPLETE CONTENT SET UPLOADED



DASHBOARD – UNDERSTAND YOUR CONTENT AT TOPIC AND CONCEPT LEVEL



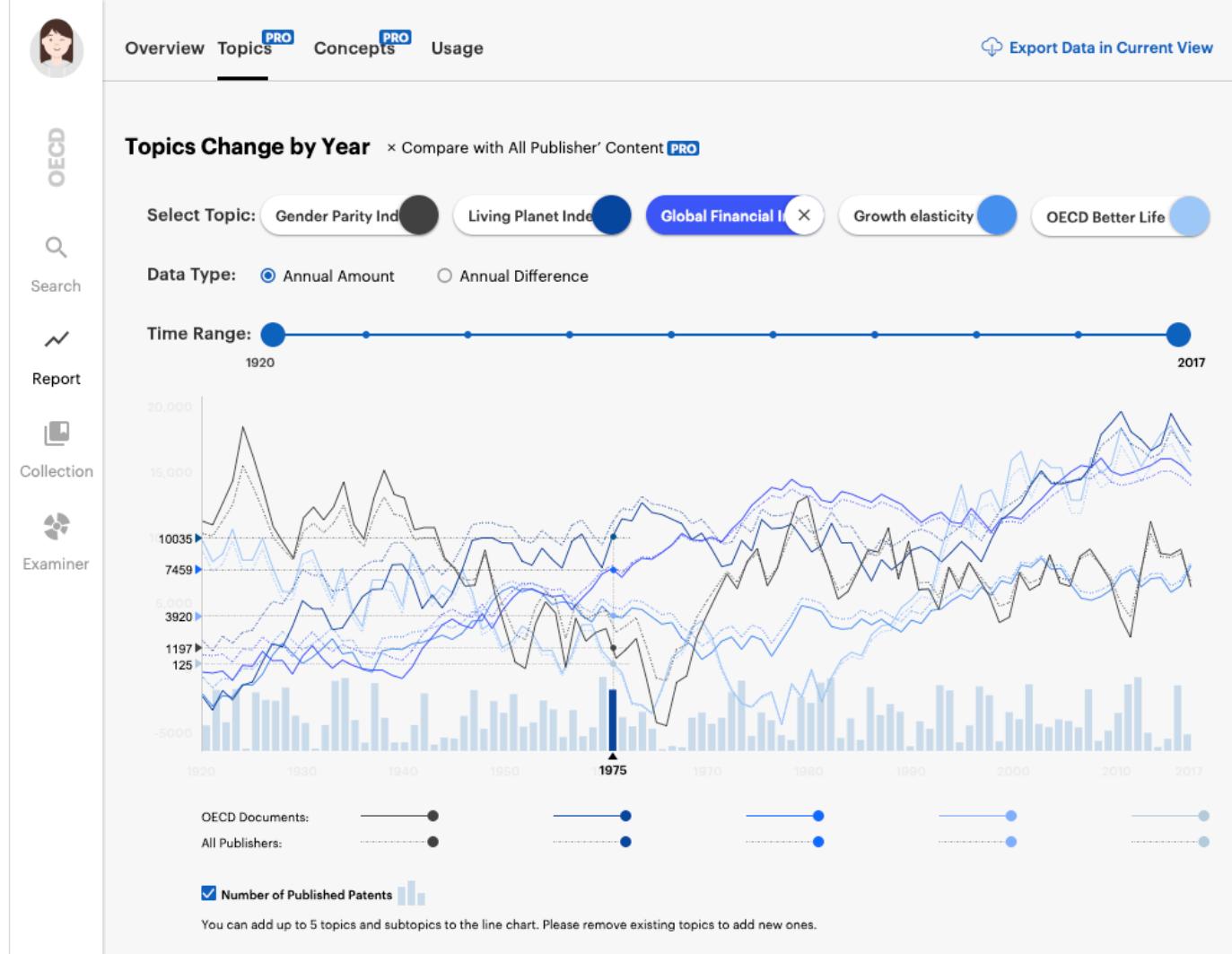
CUSTOMIZE CONCEPTS – NEW FEATURE



Yewno's technology is capable of uncovering potential topics and concepts hidden in the data, in an almost completely unsupervised manner

However if a user wants to add a concept they can follow a workflow in the UI – see example on left.

ADD TREND CAPABILITY TO ANALYSE CONTENT AT TOPIC AND OR CONCEPT LEVEL ACROSS YOUR OWN AND OTHER CONTENT SETS



Users can select up to 5 topics or concepts at any time and compare trends over time.

You can compare within your own content only or across other OA content sets

OA content sets to be selected

Example – comparison of Library Repository Content with PubMed

Published Articles about Yewno's technology

Unveil stock correlation via a new tensor-based decomposition method. arXiv.org

2019. Grammatica, R., Di Matteo T.

arXiv:1911.06126

The collage consists of five separate screenshots of academic publications:

- Top Left:** arXiv.org page for "Unveil stock correlation via a new tensor-based decomposition method" by Giuseppe Brandi, Ruggero Gramatica, and Tiziana Di Matteo. It shows the abstract, author information, and download options (PDF, Other formats).
- Top Right:** Taylor & Francis Online page for the same article, showing metrics (108 views, 3 citations), submission history, and a link to the journal Philosophical Magazine.
- Middle Left:** ScienceDirect page for "Random and frozen states in complex triangulations" from Physica A: Statistical Mechanics and its Applications, Volume 391, Issue 11, 2012. It shows the abstract, citation details, and a link to the journal.
- Middle Right:** PLOS ONE page for "Exploring complex networks via topological embedding on surfaces" by Tommaso Aste, Ruggero Gramatica, and others. It shows the abstract, citation metrics (8,185 views, 5 shares), and a link to the journal.
- Bottom Center:** A screenshot of a COVID-19 campus closure notice overlay on a ScienceDirect page, indicating remote access options.

Random and frozen states in complex triangulations. Philosophical Magazine, 92(1-3)

2012. Aste, T., Gramatica, R. & Di Matteo, T.

<http://dx.doi.org/10.1080/14786435.2011.613861>

Dynamical generalized Hurst exponent as a tool to monitor unstable periods in financial time series. Physica A: Statistical Mechanics and its Applications, 391(11)

2012. Morales, R., di Matteo, T., Grammatica, R., & Aste T.

<http://dx.doi.org/10.1016/j.physa.2012.01.004>

Exploring complex networks via topological embedding on surfaces. Physical Review E, 86(3)

2012. Aste, T., Gramatica, R. & Di Matteo, T.

<http://dx.doi.org/10.1103/physreve.86.036109>

Graph Theory Enables Drug Repurposing – How a Mathematical Model Can Drive the Discovery of Hidden Mechanisms of Action R. Lambiotte, ed. PLoS ONE, 9(1)

2014. Gramatica, R. et al.

<http://dx.doi.org/10.1371/journal.pone.0084912>

Other Reading

Here is an article I wrote for the library magazine – “*Research Information*” which provides information about Yewno’s technology in an accessible way:

[The Importance of Concepts: Harnessing Content Management is the Next Generation of Technology for Publishing](#)

Here is another good article about the use of Yewno Discover in Bioinformatics:

International Journal of Information Science and Management Vol. 18, No. 2, 2020,
229-243

Co-Concept Analysis in Bioinformatics Field by Yewno Based on Experts' Viewpoints

Masoume Kiani, Asefeh Asemi, Mozaffar CheshmehSohrabi, Ahmad Shabani

<https://ijism.ricest.ac.ir/index.php/ijism/article/view/1808>

Yewno: Transforming Data into Information, Transforming Information into Knowledge

Philip Schreur Technical Services, Stanford University, Stanford, USA. E-mail address:
pschreur@stanford.edu

<http://library.ifla.org/2538/1/114-schreur-en.pdf> (IFLA)

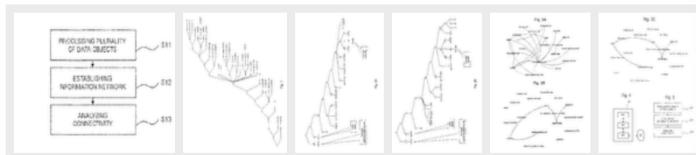
Yewno's patents

Information network with linked information nodes

Abstract

A machine-implemented method of relaying information nodes in an information network, comprising the steps of: processing a plurality of data objects according to a predefined dictionary containing a plurality of information units and a plurality of correlation-indicating elements to detect in the plurality of data objects the presence of a correlation between respective information units; establishing an information network with a plurality of information nodes and links between the information nodes, said information nodes being related to said information units and said links being related to said detected correlations; and analyzing a link connectivity state of said information network to find a path across information nodes that represent an inference or a set of inferences being input by a query searched by a user.

Images (13)



Classifications

■ **G06F16/9535** Search customisation based on user profiles and personalisation

[View 19 more classifications](#)

US10025862B2

United States

[Download PDF](#) [Find Prior Art](#) [Similar](#)

Inventor: Ruggero Gramatica

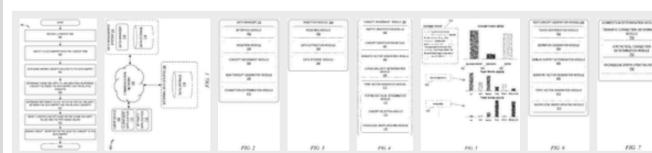
Current Assignee: Yewno Inc

Structuring data in a knowledge graph

Abstract

Disclosed are systems, methods, and non-transitory computer-readable media for structuring data in a knowledge graph. A data management system determines known concepts that are related to a data snippet. The data management system determines cosine similarity values indicating an intrinsic similarity between the data snippet and the known concepts, as well as pertinence values indicating a measure of topical similarity between the data snippet and the known concepts. The data management system determines, based on the cosine similarity values and the pertinence values, that the data snippet is related to a first known concept, and in response, assigns a concept identifier for the first known concept to the data snippet. Scores indicating a strength of connection between the concepts added to the knowledge graph are determined and used to derive insights between the concepts.

Images (12)



Classifications

■ **G06N5/02** Knowledge representation

[View 3 more classifications](#)

US10528871B1

United States

[Download PDF](#) [Find Prior Art](#) [Similar](#)

Inventor: Ruggero Gramatica, Haris Dindo

Current Assignee: Yewno Inc

Worldwide applications

2019 • US

Application US16/354,910 events

2018-09-24 • Priority to US201816139885A

2019-03-15 • Application filed by Yewno Inc

2019-03-15 • Priority to US16/354,910

2019-03-15 • Assigned to YEWNNO, INC. ®

2020-01-07 • Application granted

2020-01-07 • Publication of US10528871B1

2020-01-30 • Application status is Active

2038-09-24 • Anticipated expiration

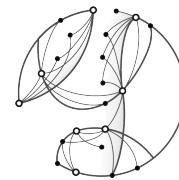
Awards and Nominations

2020			FROST & SULLIVAN GLOBAL PREDICTIVE ANALYTICS FOR FINANCIAL SERVICES TECHNOLOGY INNOVATION AWARD 2020 Best Practice Award
2020			THE TECH ADVOCATE Best Artificial Intelligence/Machine Learning App or Tool (Finalist)
2019			BENZINGA GLOBAL FINTECH AWARDS Best AI Platform (Shortlisted)
2019			OUTSELL'S Ten to Watch, 2019
2018			THE TECH ADVOCATE Nomination of Best EdTech Startup
2018			SILICON REVIEW 50 Most Valuable Brands of The Year, 2018
2018			THE EDTECH AWARDS COOL TOOL Finalist 2018
2017			SILICON REVIEW 50 Smartest Companies of The Year, 2017
2017			OUTSELL'S 2017 Emerging Company of the Year

Thank you!

Manisha Bolina, VP of
Business Development

Manisha@yewno.com



**Knowledge
Graph**

POWERED BY
Yewno