

Yewno

**AI: Empowering Libraries and
Making it Real**

**Case Study from Yewno and
Cattolica University**





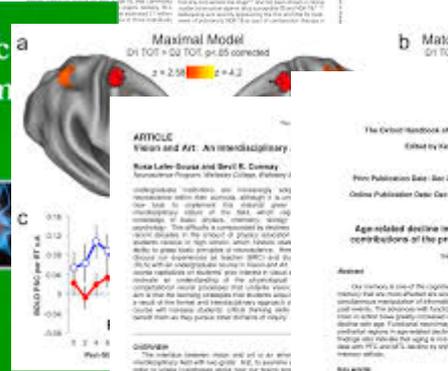
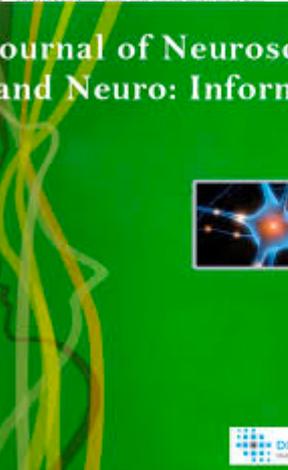
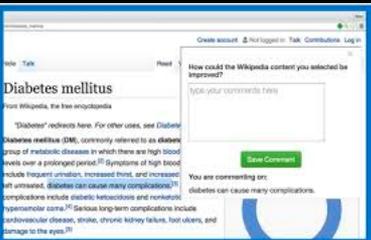
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“ROI figures range from 38% to over 600%, depending on whether the new information or content management system is an incremental improvement over an existing one or is an entirely new system replacing previously manual processes”.

”

Source: The High Cost of Not Finding Information An IDC White Paper

The Problem...



ward Health Pub
HARVARD MEDICAL SCH
Trusted advice for a healthier

Adverse reactions to metal on metal hip implants



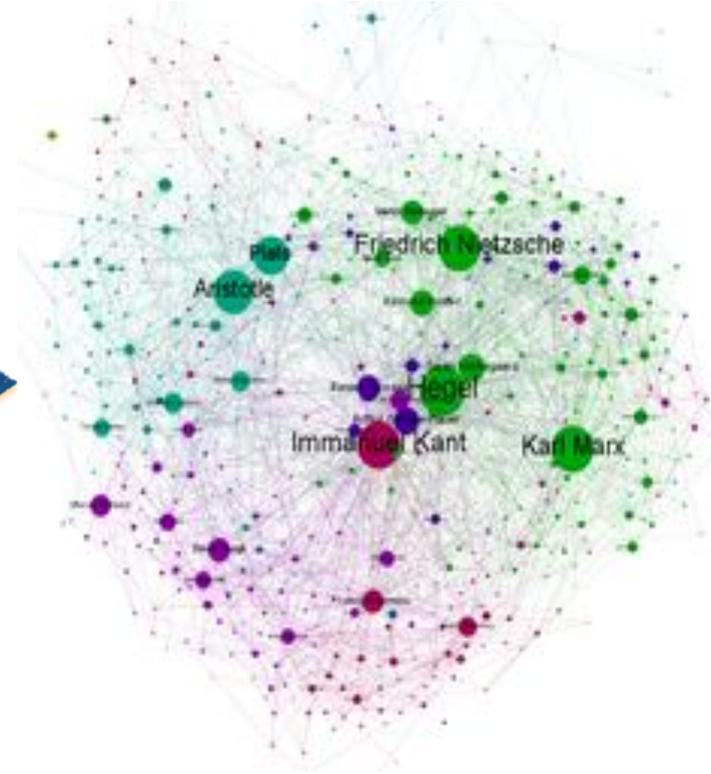
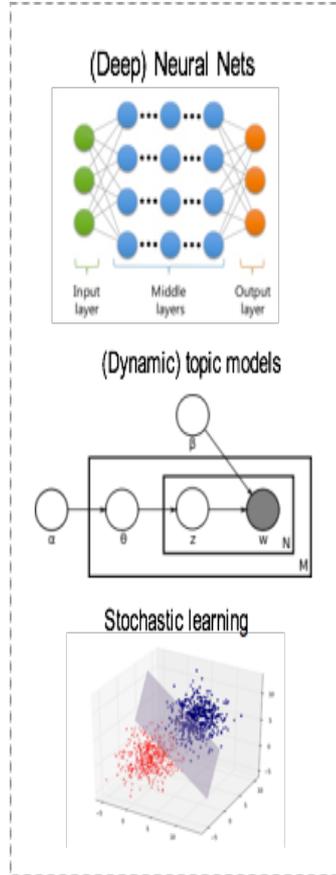
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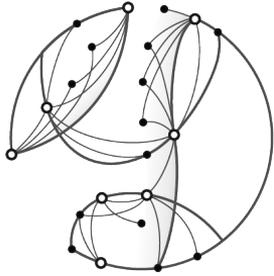
“It would take over 3 trillion years for a team of 10,000 analysts to read all of the unstructured information currently available today”

”



How can AI technology help?





**Knowledge
Graph**

POWERED BY

Yewno

Semantic Concepts Taking Discovery Beyond the Search



Concepts not keywords



Brexit



EN

Political Science / Democracy

United Kingdom withdrawal from the European Union

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

Nurofen



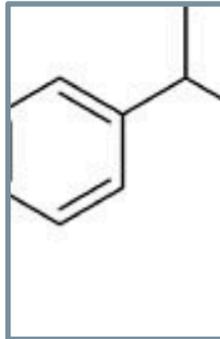
EN

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 Prototyping, 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 built 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.

- The term '3D printing' isn't mentioned in the text itself
- Algorithms understand meaning - what is being written about
- They can also understand context

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



This AI Knowledge Graph Technology led to the creation of:

Yewno | Discover

a next generation AI concept-based visualization search tool, powered by the full text ingestion over 500 million academic documents

Yewno | Unearth

using the power of the Yewno Knowledge graph to understand proprietary content such as a publisher's collection or institutional repository



Yewno | Discover



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Artificial Intelligence for
Precision Discovery and Curation



Back

Relationship Between Urban planning & Strava

Overview

Documents



Business User or Unit

Business User or Unit

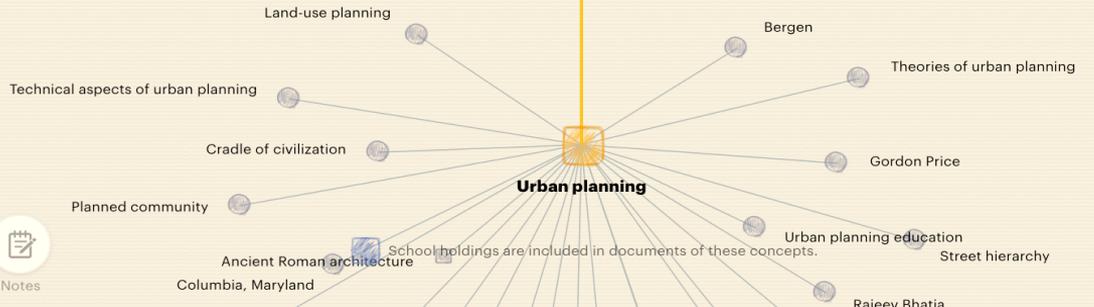
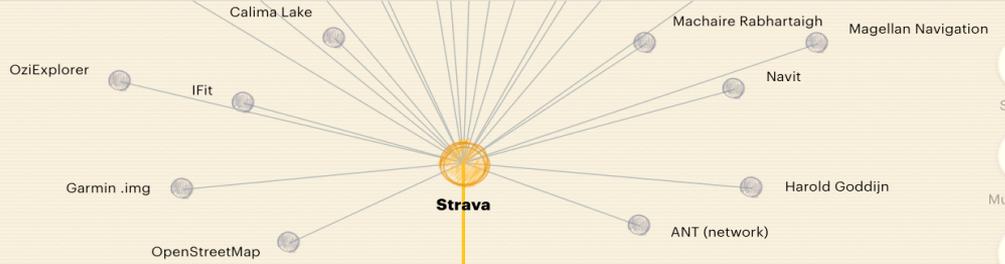
RELATED CONCEPTS

Concepts related to both Urban planning and Strava

Yewno's technology discovers inferences and documents between the two concepts. You can find the related documents by clicking "Documents" tab.



Notes



Snapshot



Multi-Select



Layer



SEARCH



JOURNEY



NOTEBOOK

Yewno | Uearth



SETTINGS



HELP CENTER





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Relationship Between Urban planning & Strava

Overview

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All Document Types

Article 5 Chapter 1

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All Topics

Technology & Engineer... 6 Transportation 4

Earth Sciences 3 Mathematics 3

Business & Economics 2 Architecture 1

Show All Topics

Languages

All Languages

English Deutsch/German

中文/Chinese

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Smart World Cities in the 21st Century

2018 - De Gruyter

ICT also increase the ease of use, for instance by offering a one-stop paying system (through an app) for all transport modes (Regio IT, n.d.). Furthermore, the combination of all public mobility modes in one app could, in the future, bridge the different providers to offer a nearly seamless public infrastructure. Such a service is offered in Helsinki in the development stage with the ambition to make car ownership obsolete (Peters, 2015). Citizens as sensors and open urban data will have an impact on urban planning decisions in the future. It might become possible to identify the main bike routes and meet the demand if additional bike rakes or lanes are needed. One example is the running and biking app Strava (Davies, 2014). Originally this app was built to monitor the personal tracking of the customer's workout distances and times. Therefore, a lot of data was collected about when and where the app users travel.

Related Snippets

1

Document Information

Title	Smart World Cities in the 21st Century
Author	Agnes Mainka
ISBN	9783110575323

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SEARCH



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SETTINGS



HELP
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activity tracker

itecture and Urban Planning

Maryland

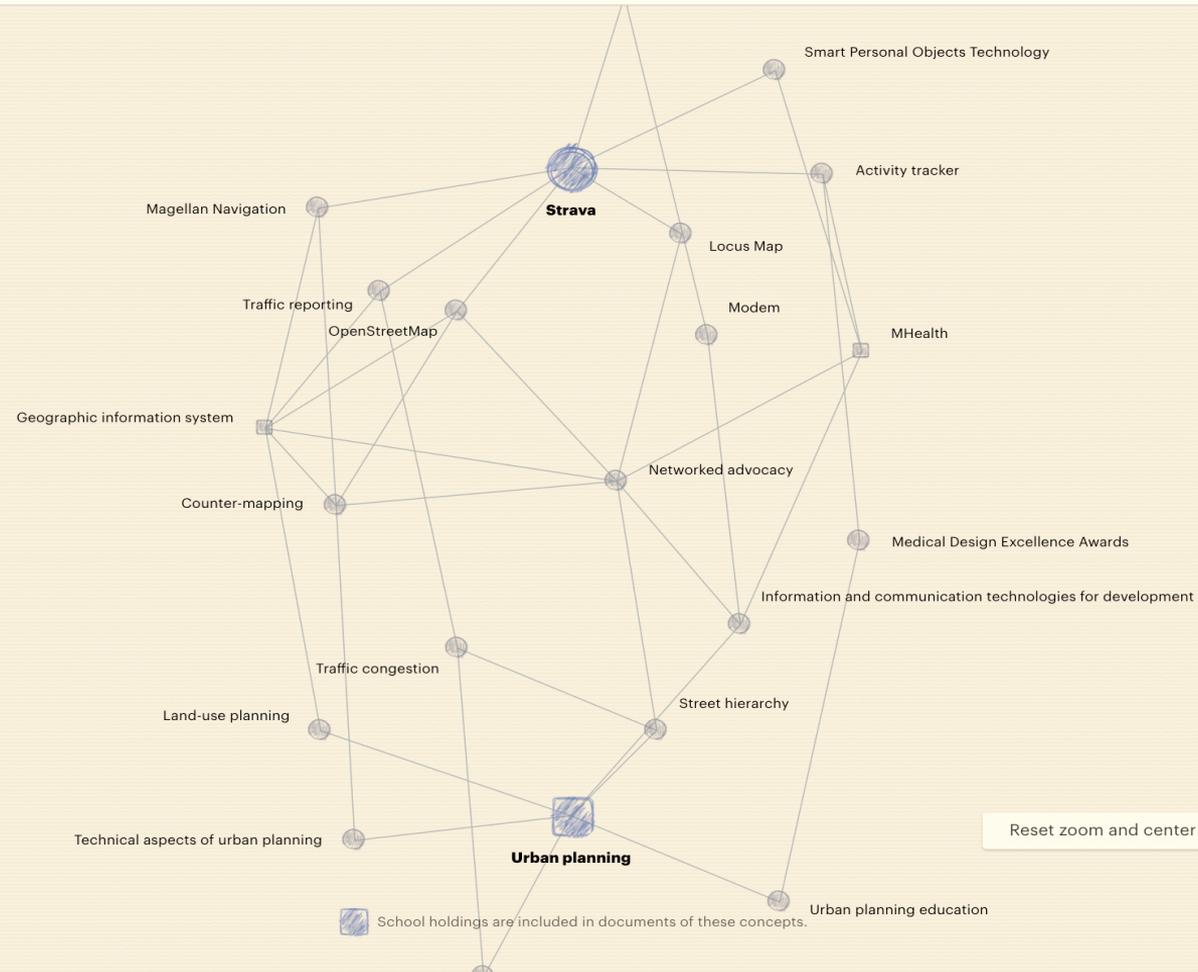
Grid plan

nning

Theories of urban planning



Yewno Uneath



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Yewno | Uneath



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An integrated Approach to the Ergonomic Analysis of VR in Psychotherapy: Panic Disorders, Agoraphobia and Eating Disorders
IOS Press, 2004
article

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The Role of Immersion and Narrative in Mediated Presence: The Virtual Hospital Experience
Mary Ann Liebert Inc, 2011
article

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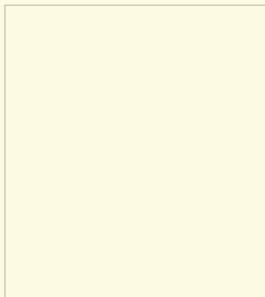
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Speed up discovery by exposing the exact sections of



Title Search...

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article

CONCEPTS

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

▼ Virtual reality



... 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...

2011

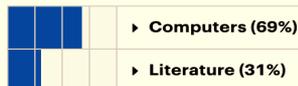
The Role of Immersion and Narrative in Mediated Presence: The Virtual Hospital Experience

Alessandra Gorini, Claret S. Capideville, Gianluca De Leo, Fabrizia Mantovani, Giuseppe Riva

ISSN 21522715

Link <http://dx.doi.org/10.1089/cyber.2010.0100>

TOPICS



The "mediated sense of presence" is a technology-induced illusion of being present in one (simulated) place when one is actually present in another (physical) place. Typically experienced in virtual worlds, mediated presence is generated by different technological, cognitive, and emotional factors. The aim of this study was to test how to optimise the virtual experience by manipulating some of these factors. 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, randomly divided into four groups, were asked to find a blood container inside a virtual hospital in an immersive or non-immersive condition and with or



Repository content clearly indicated



Virtual reality

Computers / Virtual Reality ⓘ

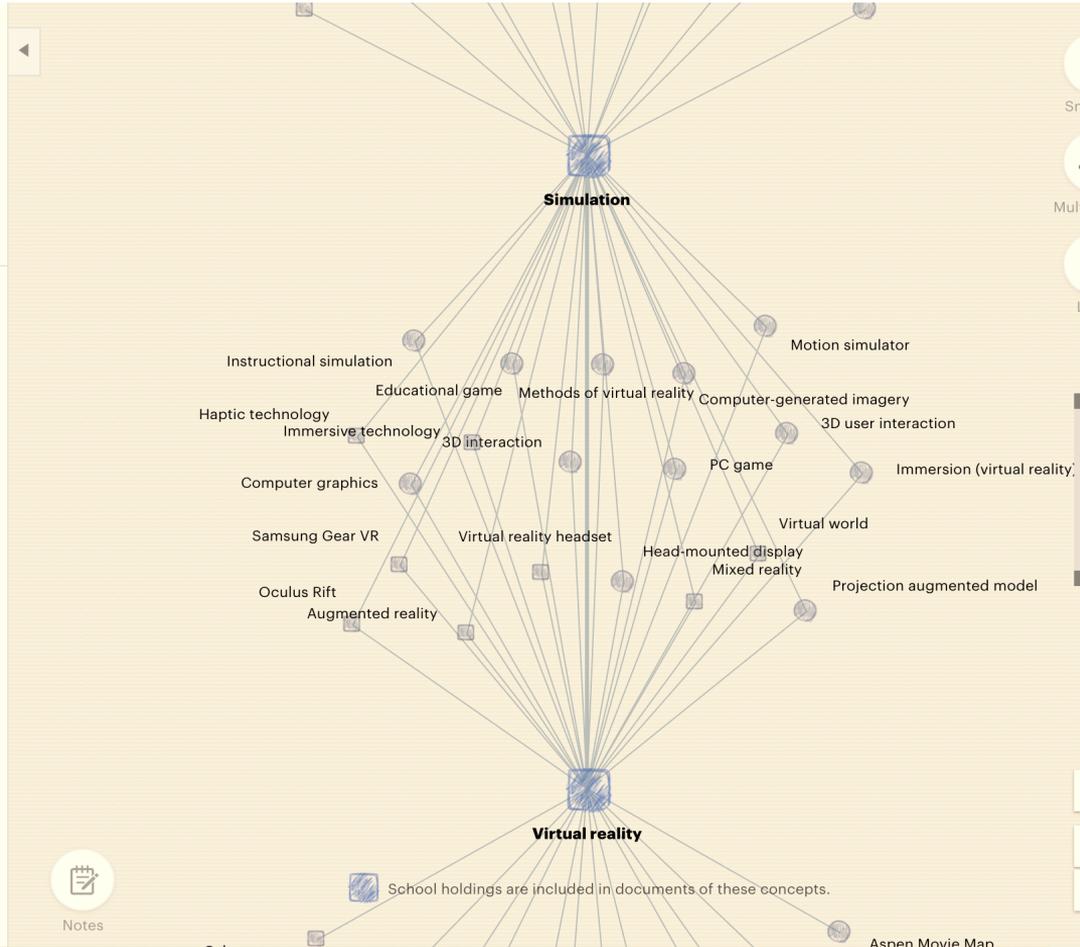
Overview Concepts Documents



DEFINITIONS

Virtual reality (VR) is a computer technology that uses **Virtual reality** headsets, sometimes in combination with physical spaces or multi-projected environments, to generate realistic images, sounds and other sensations that simulate a user's physical presence in a

Source



Notes



Find the content in your repository

...contextualized...

Virtual reality ☆
Computers / Virtual Reality ⓘ

Overview Concepts **Documents**

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Back to the Holodeck ☆

An obvious question is why? Head mounted displays are commercially available, and some do not cost much more than a sophisticated laptop computer [2] [3]. Yet the history of VR is littered with failed attempts ([4] p 200), [5] to bring head mounted...

2007 - ACM

A real-time performance system for virtual theater ☆

The need for real-time is critical for this application. With motion capture system, high-speed internet, and two PCs each equipped with two high-end graphics cards (NVIDIA GeForce 5800), our system runs in real time at a speed of 100FPS. By...

2010 - ACM Press

Surfing the Net for Software Engineering Notes ☆

The lab is dedicated to research involving the integration of wearable computing devices and cybernetics. EyeTap is also the name of a wearable device that consists of a camera and projection system. The camera captures the real world in real time...

2016 - Association for Computing Machinery

◀ More ▶



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Virtual reality

Computers / Virtual Reality ⓘ

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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

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Italiano

Scheda breve | **Scheda completa**

Autori: Cipresso, Pietro 
Riva, Giuseppe 

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

Digital Object Identifier (DOI): 10.3233/978-1-61499-595-1-177

Data di pubblicazione: 2015

Abstract: There is a long last tradition in Artificial Intelligence as use of Robots endowing human peculiarities, from a cognitive and emotional point of view, and not only in shape. Today Artificial Intelligence is more oriented to several form of collective intelligence, also building robot simulators (hardware or software) to deeply understand collective behaviors in human beings and society as a whole. Modeling has also been crucial in the social sciences, to understand how complex systems can arise from simple rules. 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

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5 Tips

Improve Discovery in your library with AI



- 1) Is it a dynamic environment?
- 2) Can the technology disambiguate, and does it provide definitions?
- 3) Can it understand context?
- 4) Does it learn, or does it need to be fed keywords/concepts?
- 5) Can it make connections and inferences ?



Thank You!

manisha@yewno.com

...next up – Ben McLeish!