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SCIENTISTS
SPEAKING
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TO
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Collective notes

bit.ly/oa-week



Science without **open**
=
Science without **warranty**



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University of Cambridge

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e

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1,716

Tom Phillips in Beijing

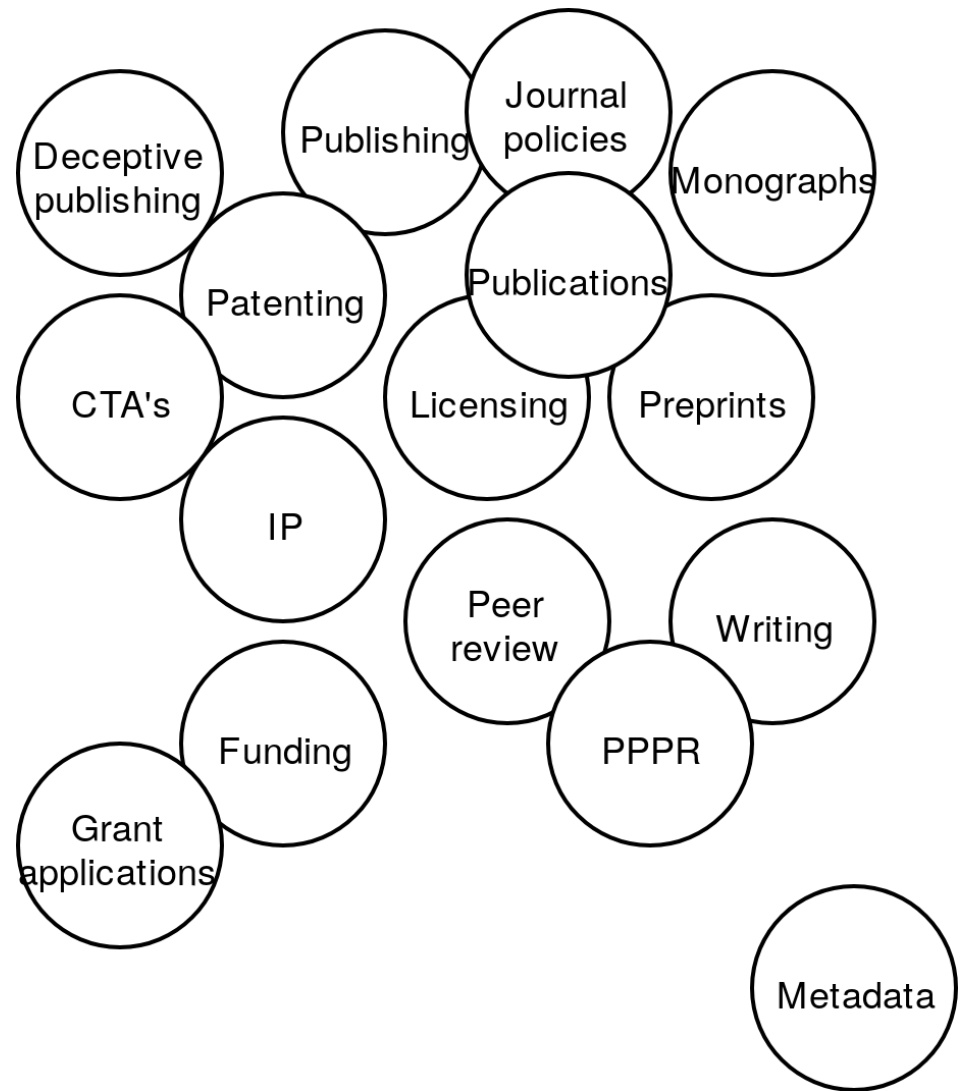
Cambridge University Press faces boycott over China censorship

Academics pressure publisher as Beijing mouthpiece says western institutions can leave if they don't like 'the Chinese way'





Much to learn, little education



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Licensing in Open Access

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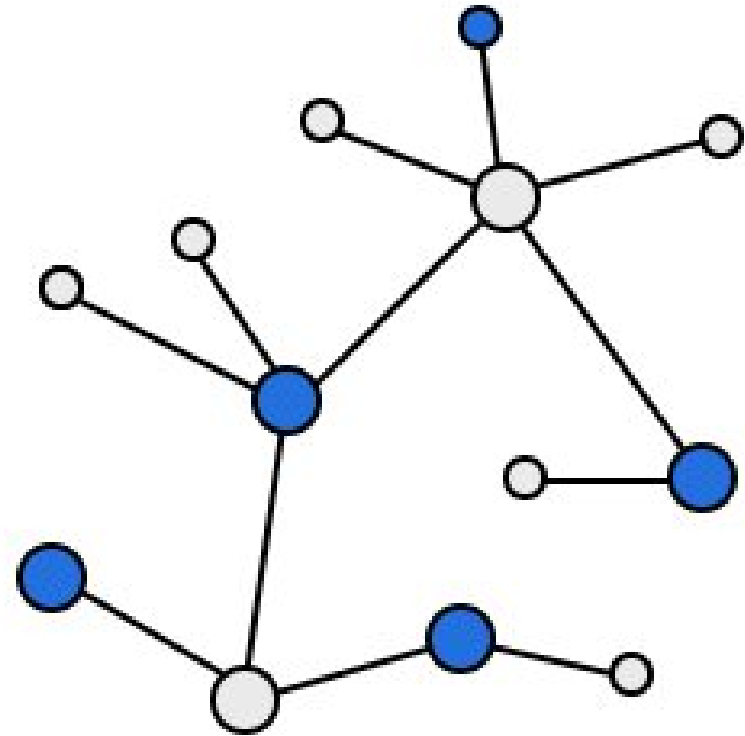
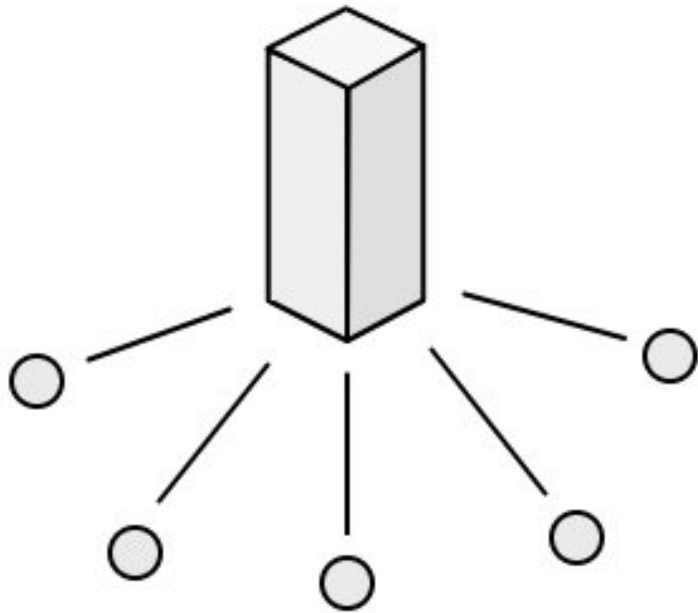
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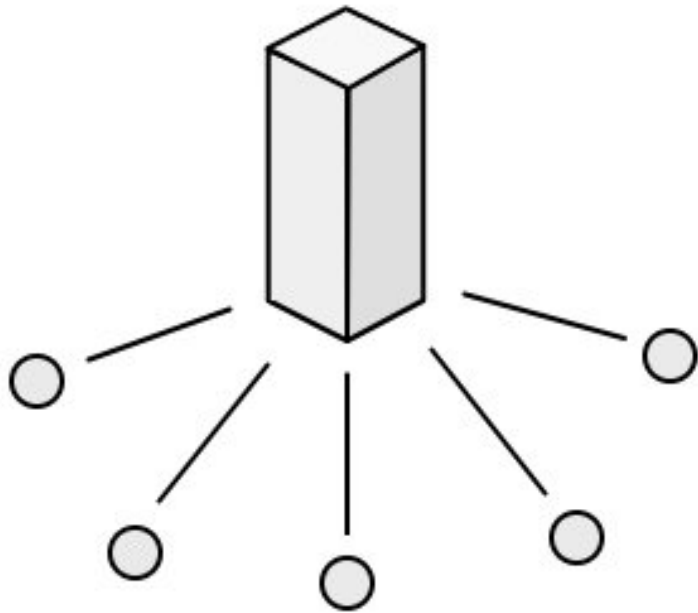
Science with **open**
=
Science with **warranty**



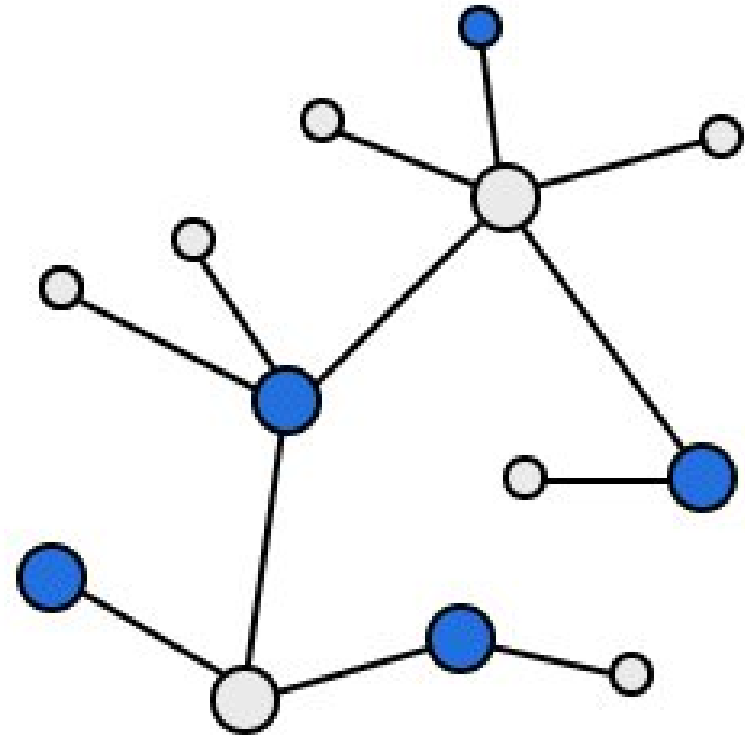




Centralized

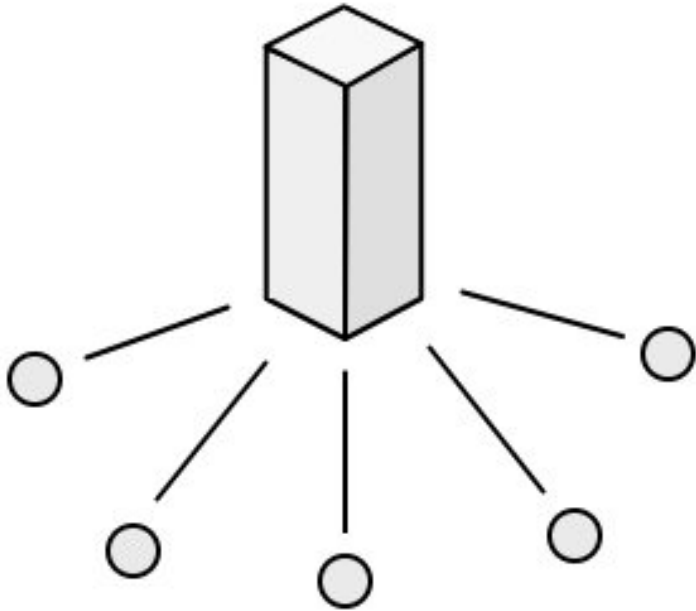


Decentralized



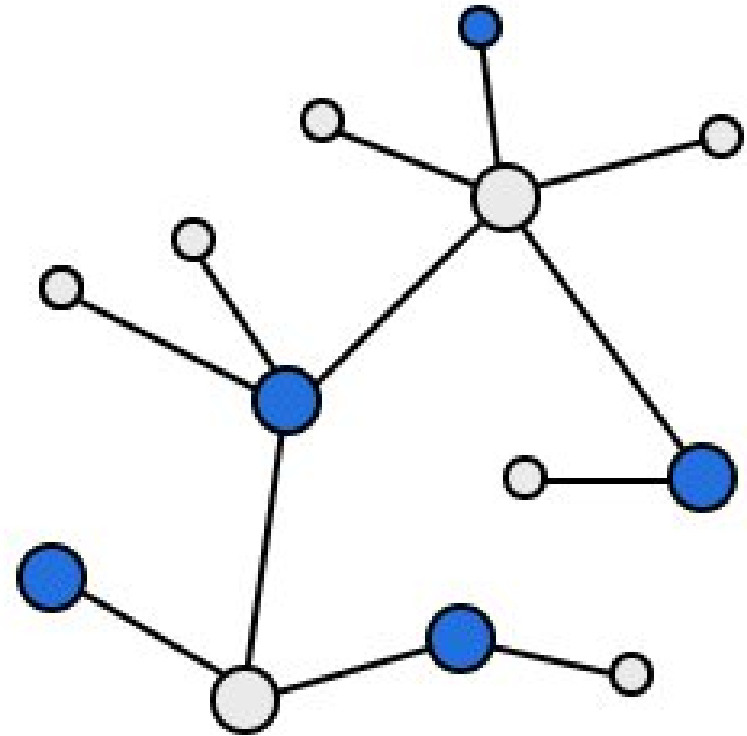
Centralized

easy to control



Decentralized

difficult to control



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end result



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Bewaar

Vergelijk

€ 3.750,00

2006 136.384 km Energielabel: C Verbruik: 16,67 km/l



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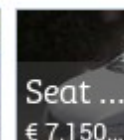


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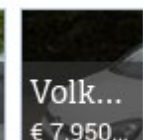
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Seat ...
€ 7.150...



Kia ...
€ 6.450...



Volk...
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👁 10 x gezien ⭐ 0 x bewaard ⌚ sinds 24 okt. '17, 09:30



Bewaar

Vergelijk

2006 136.384 km Energielabel: C Verbruik: 16,67 km/l



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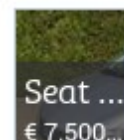


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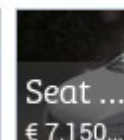


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nummer

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advertenties



Seat ...
€ 7.500...



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Bewaar

Vergelijk

2006 136.384 km Energielabel: C Verbruik: 16,67 km/l



Aanvragen



Bericht



Toon
nummer

Mijn overige
es



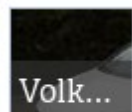
Seat ...

€ 7.500...



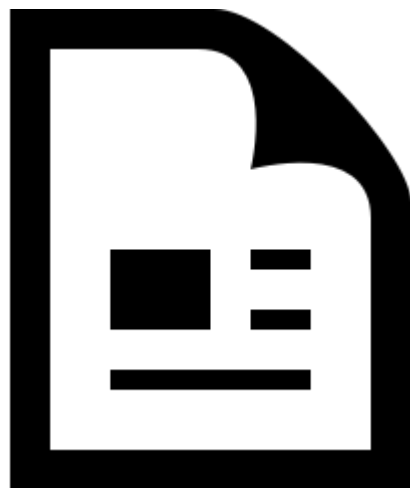
Kia ...

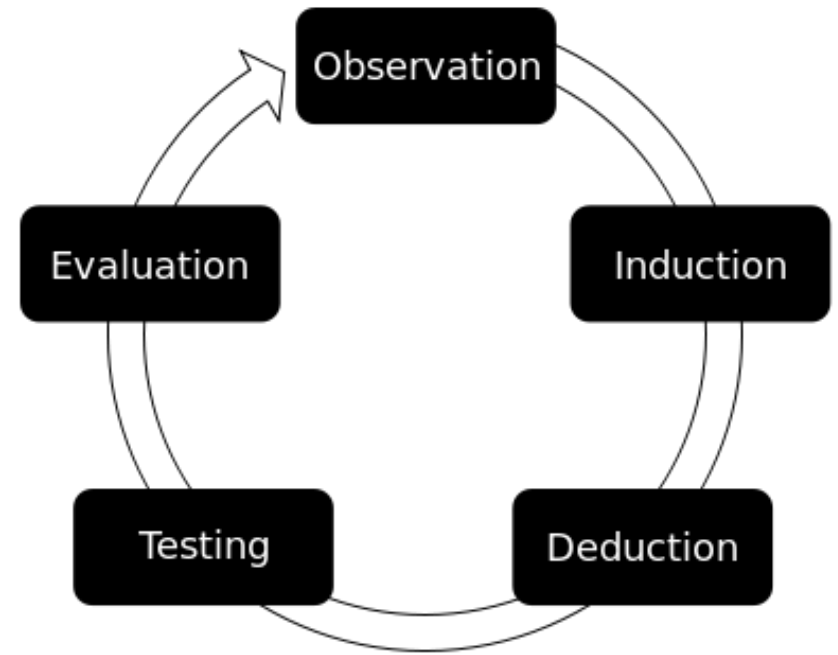
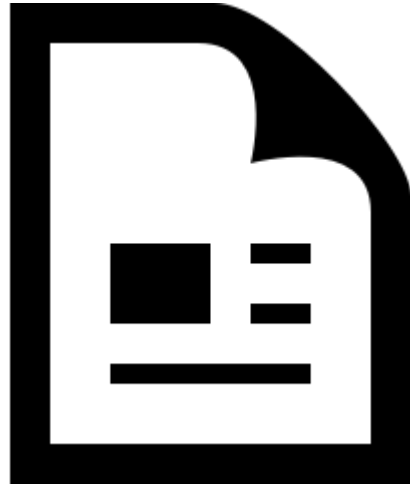
€ 6.450...

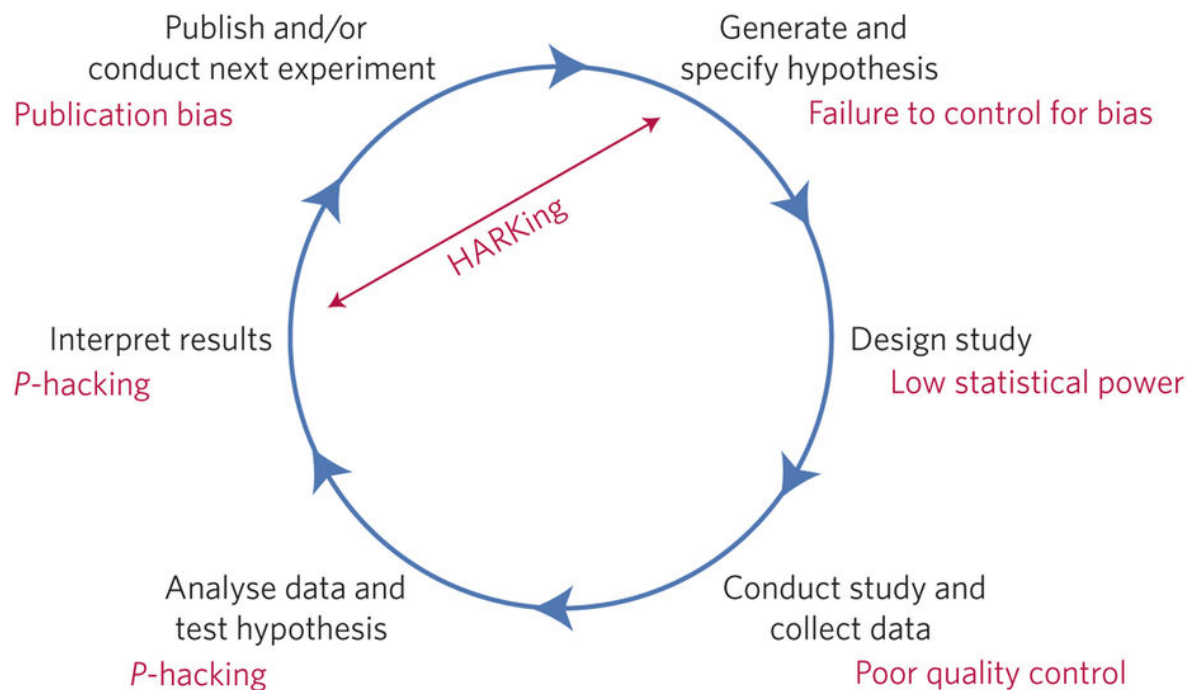
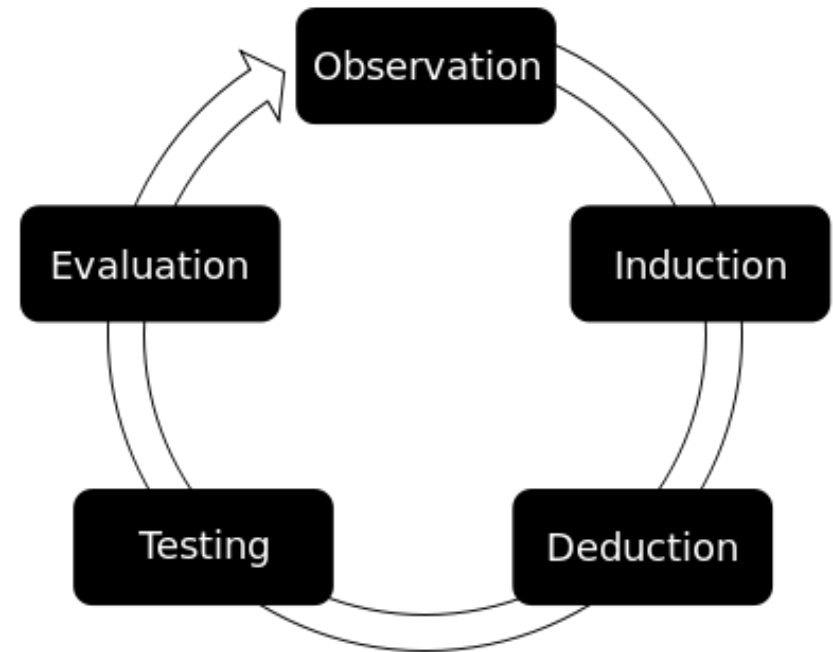
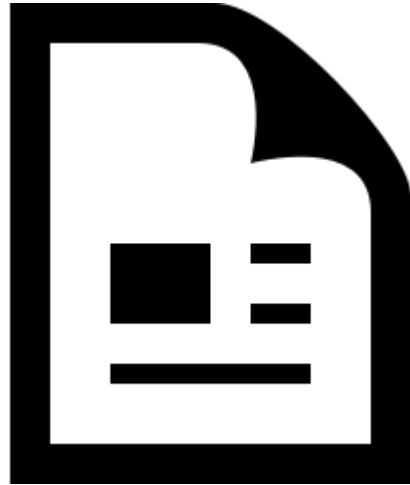


Volk...

€ 7.950...







Here's Marty Seligman, past president of the American Psychological Association (APA):¹

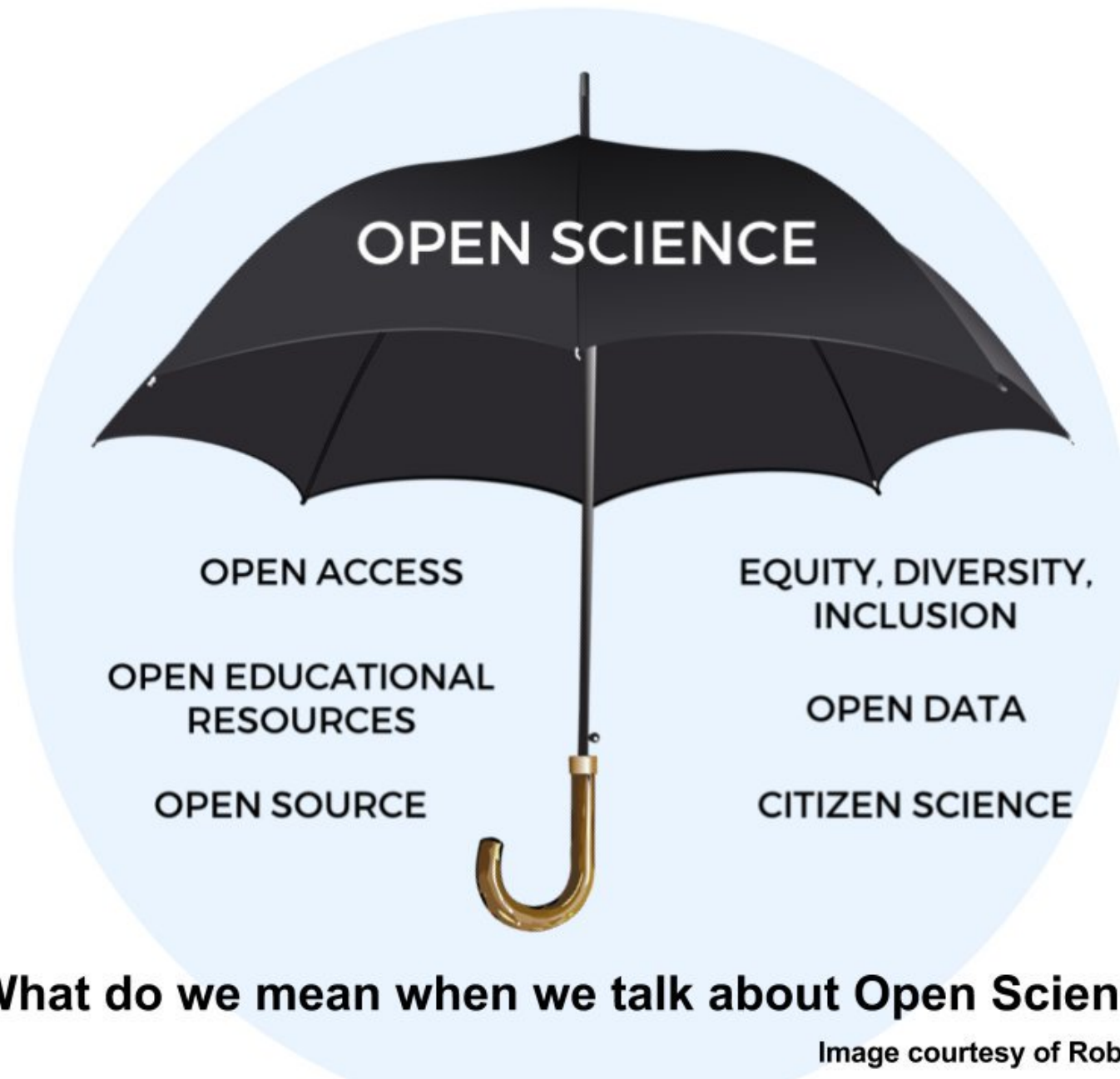
APA presidents are supposed to have an initiative and I thought mine could be “evidence-based treatment and prevention.” So I went to my friend, Steve Hyman, the director of [National Institute of Mental Health]. He was thrilled and told me he would chip in \$40 million dollars if I could get APA working on evidence-based treatment.

So I told CAPP [which owns the APA] about my plan and about NIMH's willingness. I felt the room get chillier and chillier. I rattled on. Finally, the chair of CAPP memorably said, “What if the evidence doesn't come out in our favor?”



Science without
is just
open anecdote





What do we mean when we talk about Open Science?

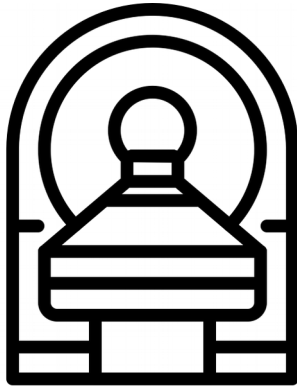
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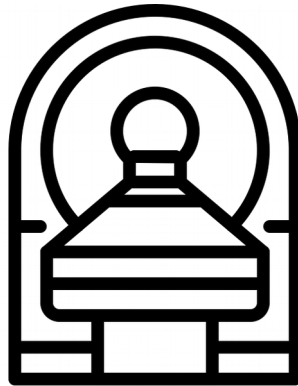
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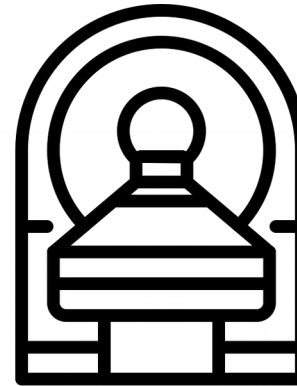
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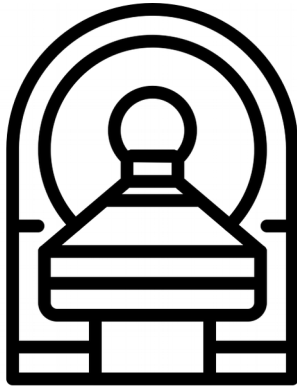
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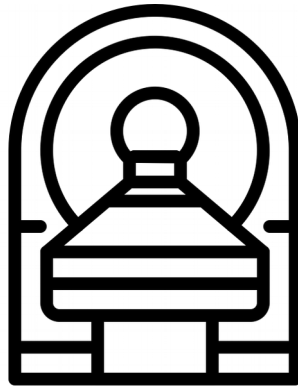


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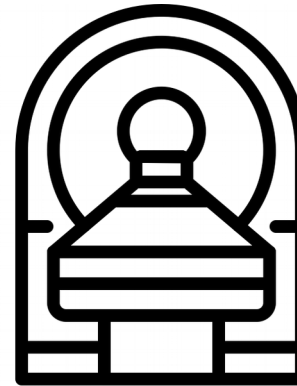
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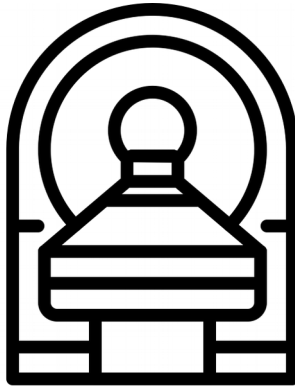
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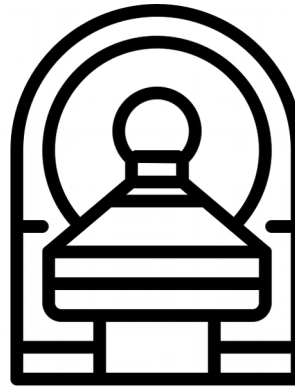
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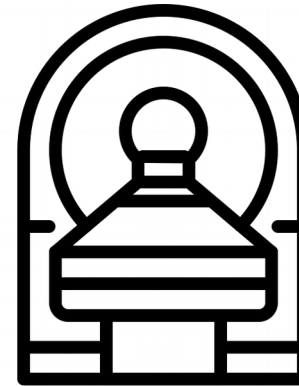
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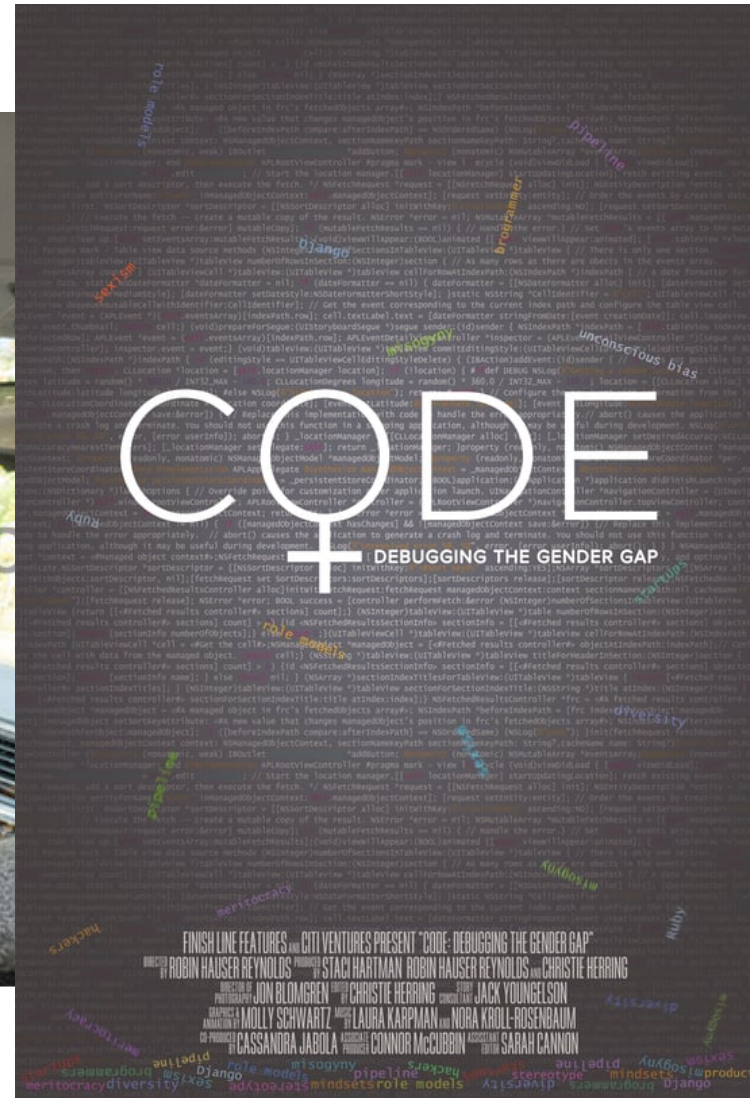
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**Open = inviting other
people in**



To the Right Honourable
WILLIAM Lord VISCOUNT Brouncker,
CHANCELLOR to Her Majesty,
AND
PRESIDENT to the ROYAL SOCIETY, &c.

MY LORD,

After I had dedicated the First Volume of these Philosophical Occurrences to the R. Society, to whose service I have dedicated my self, I thought it my next duty to present the Second to your Lordship, who have for so many years with so high and universal an Applause presided in that Illustrious Assembly, and there given full proof both of the vast extent of your knowledge, and the incomparable solidity of your judgement in all the various Arguments and Matters there produced, observed, experimented and discoursed of. This, my Lord, though it deserves a far better Pen to be proclaim'd to the world, than mine; yet did I think, I might be suffer'd in this crowd to cast in my voice, and to deliver the truth and my persuasion thereof in these plain expressions. To which I shall add no more but my humble acknowledgments for your Lordships particular favour and goodness, in condescending on all occasions, to encourage these (though rude and undigested) Communications, and thereby to fortify (against the obloquies of some singular men) the endeavours of the Author for the improving and enlarging his Philosophical Commerce; which, being done, may perhaps be a means to render these Papers less inconsiderable for the future. I am,

My Lord,

Your Lordships

LONDON,
March 2. 1667
8

Very humble, and very much
obliged Servant,

Henry Oldenburg.

Soc. Reg. Secr.



Regular paper

WLAN indoor localization method using angle estimation

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ABSTRACT

In WLAN indoor localization systems, an improved position fingerprinting algorithm is proposed to obtain higher accuracy. The algorithm constructs the nonlinear relationship between received signal strength indication (RSSI) values and the angles formed by horizontal line and the line from transmitters to receivers, instead of traditionally training the relationship between RSSI values and physical coordinates. The localization area is divided into a number of small rectangular areas, and the test points are sorted out by K-Nearest-Neighbor (KNN) algorithm. In a small rectangular area, RSSI values and the angles are trained by support vector machine (SVM), so as to estimate the angles formed by horizontal line and the line from test points to each access point (AP). Finally, coordinates of the test points are estimated using the geometric relationship. Two experimental sections have been conducted under different conditions: one is in the laboratory, and the other in a typical office space. The proposed algorithm is compared with v-SVM algorithm, KNN algorithm and ML algorithm. Experimental results prove that our proposed algorithm outperforms other methods in term of localization accuracy under various situations.

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1. Introduction

In recent years, the development of wireless communication technology and the increasing demand for location-based services promote the localization technology. Global positioning system (GPS) [1,2] can provide accurate localization information outdoors, but it is based on additional infrastructure like use of repeaters in indoor environment which consist of a directional antenna for receiving a non-overlapping set of GPS satellites, a LNA (Low Noise Amplifier), a power amplifier for compensating the antenna and cable losses, and a transmitting antenna for re-radiating the amplified GPS signals [3]. All of this additional infrastructure enhances the cost and complexity. But the demands of the accurate indoor localization is also exponentially increasing like in medicine industry, public safety, transportation system etc. Similarly, a precise indoor localization is required in shopping malls, airports, museums, hospitals, parking lots, prisons, and warehouses. Therefore, the research of indoor localization is of great significance. Today's increasingly popular wireless networking technology is considered as a key to solve this problem [4,5].

Based on whether direct ranging measurement is required, there are basically two types of methods: range-based [6–8] and

range-free localization. The former is based on Time of Arrival (TOA) [9,10], Time of Different of Arrival (TDOA) [11,12], Angle of Arrival (AOA) [13,14], Phase of Arrival (POA) [15] and RSSI. TOA, TDOA, and AOA estimate the coordinates of the target point by geometric measurements method-triangulation, trilateration, hyperbolic with the obtained information of angle, distance, and range difference etc. In the Range-based methods, RSSI method builds a path loss model to obtain distance from transmitter to receiver. Paper [7] presented an environmental-adaptive path loss model. The blind node utilizes the absolute value of RSSI to generate the phase of the corresponding receiver's location so as to determine the correction coefficient of indoor multipath fading. The estimation accuracy and adaptability of the path loss model proposed in [7] are significantly higher than that of the traditional path loss model but it is not suitable for the NLOS (Non Line of Sight) environment with several rooms, generating reflection, scattering, diffraction and acute decay of walls. Paper [16] proposed a hybrid algorithm that combines the reference data collection procedure with the path-loss prediction model. It requires only a few samples to be measured, thus significantly reduces the sampling time and the test of the signal strength database is estimated by using path-loss prediction model. This algorithm reduces the sampling time without affecting the location accuracy of the locating system, but it needs accurate environment parameters when constructing the propagation model.

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What do we do?

One-directional communication



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them with the option?



If **you want to discuss**
work, do **you have the**
option?





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