The value added of organized information: from Floridi to Bennett

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A skeptical reviewer...

Does information theory

make any difference

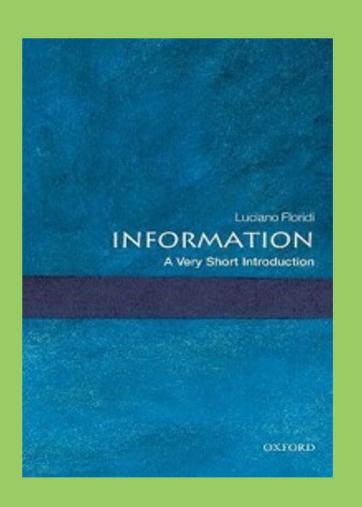
(to a conference

focused on impact of KO)

?

I hope so :-)

Information as a value







"It from bit"

Anything is information...

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[Wiener 1961; Landauer 1967; Wheeler 1990; Davies 2010]

Ethics

 anthropo-centric (traditional beliefs)



 bio-centric (environmental concerns)

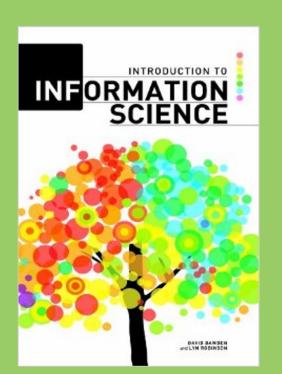


onto- (info-)centric [Spinoza, Floridi]



If so...

...information science (and KO) would be a central discipline rather than an ancillary one!



[Bawden & Robinson

Information = good?

· "being/information has an intrinsic value"

• "any informational entity has the right to persist in its own status and to flourish"

[Floridi 2010]

Hence, entropy = evil?

"any kind of destruction, corruption, dispersion and consumption of informational objects [...] that is any form of impoverishment of reality"

[Floridi 2010]

But then...

has everything the same value ?!

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"The different kinds of information "cannot be seriously quantified"

[Floridi 2013]

Informational phenomena

- matter
- . life
- . mind
- society
- heritage

organization

[Fleissner & Hofkirchner 1996; Capurro 2009; Gnoli & Ridi 2014]

Informational systems

made of modules
which combine variously
selected by environment
evolving

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[Haefner 1992; Bickhard & Campbell 2003]

Logical depth

Organization resulting from long evolutionary computational paths

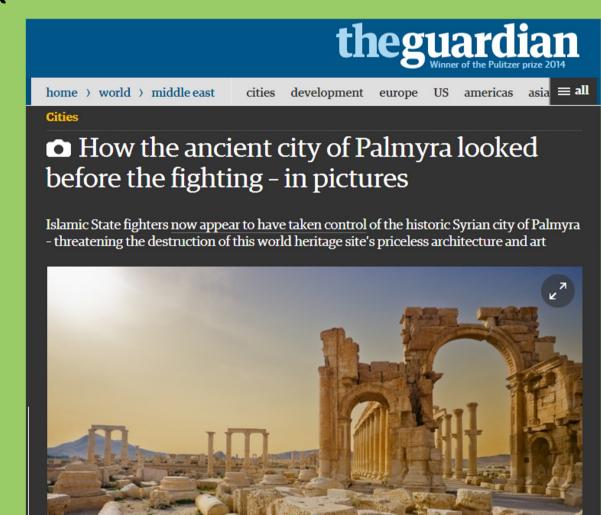
[Charles H. Bennett 1985; 1988; 1990]



Logical depth

"Deeper" phenomena are more valuable because of their previous path

Destroying them means losing the whole path



Floridi + Bennett

Molecules are indeed valuable...

but monuments are much more.



Information is as more valuable as it is **organized**

Logical depth

"Destroy the physical properties in any object and the entire object goes, but the reverse is not true"

[Feibleman 1954]

Deeper objects are more vulnerable

Valuable personal knowledge

Every person has experienced unique events and environments

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→ is bearer of logically deep knowledge



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Dal 1984 Pieve Santo Stefano, quasi al confine tra Toscana, Umbria e Romagna, ha innalzato ai quattro punti cardinali del suo perimetro, sulle strade che vi accedono, un cartello giallo sotto quello della toponomastica ufficiale: "Città del diario". La cittadina ospita infatti nella sede del municipio, un archivio pubblico, che raccoglie scritti di gente comune in cui si riflette, in varie forme, la vita di tutti e la storia d'Italia: sono diari, epistolari, memorie autobiografiche.

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Racconto vita in trincea, freddo, cibo, famiglia



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Diary of Henry Hale Graham Sharpless from June 26, 1868.

Quaker Journals and Diaries

There are more than 700 manuscript journals in the collection. Some of these have been printed, such as those of William Hunt (1733-1772), the Revolutionary War journal of Margaret Hill Morris (1737-1816) and the four-volume journal of William Savery (1750-1804). Others are much too large to be published: Joshua L. Baily (1826-1916), 45 volumes; or the journals of the two Jacob Elfreths (1814-1924), 113 volumes.

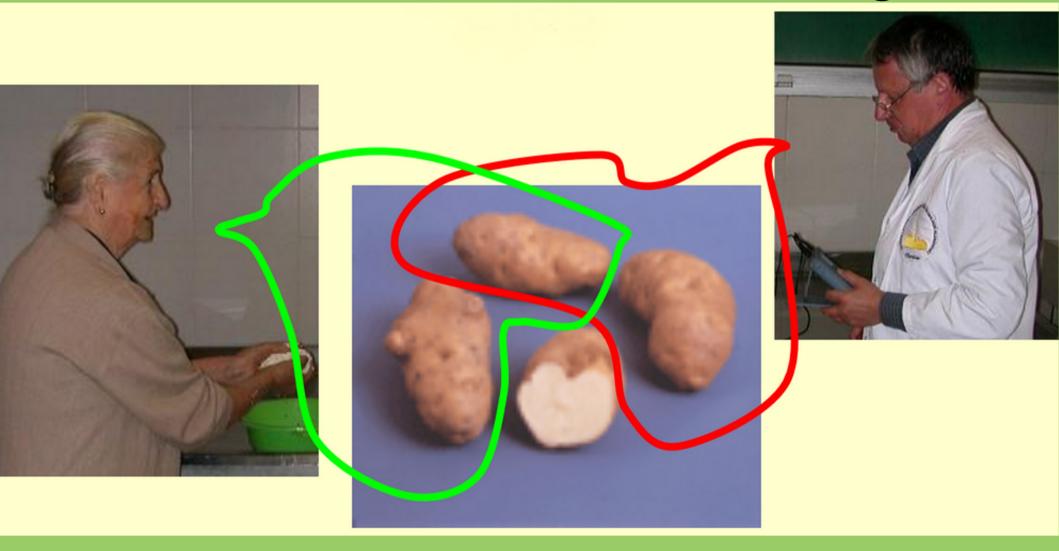
Additional names in this collection include: George Churchman (1730-1814), Thomas Pim Cope (1768-1854), Elizabeth S. Drinker (ca. 1734-1807), Jane Maule (1847-1939), Joseph Scattergood (ca. 1770-1824), Joshua Sharpless (1746-1825), Sarah F. Smiley (1830-1917), Anna Spencer (ca. 1832-1905), Joseph Walton (1817-1898), Elizabeth Webb (1663-1726) and Julia A. Wilbur (1815-1895).

To use the diary of Thomas Pim Cope as an example, entries include such information as on the Pennsylvania Railroad, the Quaker schisms, national and international politics, the development of 19th-century Philadelphia, the founding of Haverford College as well as on Cope's personal life.

Online Diaries



Valuable collective knowledge



Valuable (folk) KOSs

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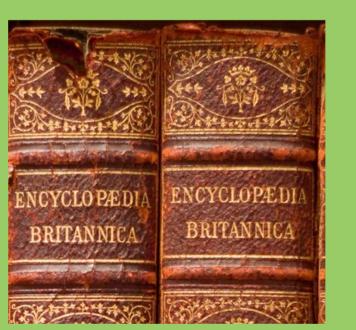
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Very high logical depth...

Documents

(= anything intentionally gathered in order to convey some knowledge)

"Documentality Beyond Documents" by Michael Buckland, The Monist, vol. 97, no. 2, pp. 179-186. Copyright © 2014, THE MONIST, Peru,



possibly the deepest entities overall

Conclusions 1/2

Information is indeed valuable...

...but some forms are more than others.

Conclusions 2/2

Documents and KOSs are especially valuable

→ KO does make a big difference!

Thank you!



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@scritur