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Info-computación

Bibliografía a utilizar

Pagallo, H. Aliquid Est Sine Ratione: On Some Philosophical Consequences of Chaitin's Quest for Ω (2007)

Dodig-Crnkovic, G. Where Do New Ideas Come From? How Do They Emerge? Epistemology as Computation (2007)

Info-computación filosófica

“Debemos prepararnos para una transformación radical, y quizás sorprendente, de la estructura disciplinar de la ciencia (incluida la tecnología) según va impregnándose del concepto de proceso de información. En particular, según vamos siendo conscientes de los procesos de información en los que nos vemos envueltos cuando hacemos ciencia, las ciencias van a situarse en una metaposición en la cual hacer ciencia (observar, experimentar, teorizar, probar, archivar) va a requerir comprender tal procesamiento de información y construir sistemas que constituyan su parte objetiva. Los límites entre la ciencia como un todo que consiste en la adquisición y organización de conocimiento sobre el mundo y el entendimiento de cómo adquirimos y organizamos el conocimiento serán cada vez más difusos.

— Allen Newell, Artif. Intell. 25 (1985) 3.

¿is "the hard problem of life" informational?

Chalmer's famously identified pinpointing an explanation for our subjective experience as the “hard problem of consciousness”. He argued that subjective experience constitutes a “hard problem” in the sense that its explanation will ultimately require new physical laws or principles. Here, we propose a corresponding “hard problem of life” as the problem of how ‘information’ can affect the world. In this essay we motivate both why the problem of information as a causal agent is central to explaining life, and why it is hard - that is, why we suspect that a full resolution of the hard problem of life will, similar to as has been proposed for the hard problem of consciousness, ultimately not be reducible to known physical principles.

— The “Hard Problem” of Life (PDF Download Available). Available from:

https://www.researchgate.net/publication/304350728_The_Hard_Problem_of_Life [accessed Jul 6, 2017].

Causation and Computation,

- incluye [Information, Causation and Computation](#), John Collier [PDF](#)

[Computation, Information, Cognition: The Nexus and the Liminal](#), editado por Susan Stuart, Gordana Dodig Crnkovic

- muestra [prólogo](#)

- chapter 5, Causation, a Synthesis of Three Approaches, Lars-Göran Johansson

[Computing Nature](#), Dodig-Crnkovic Ed.

- incluye [What Makes a Computation Unconventional? or, there is no such thing as Non-Turing Computation](#), S. Barry Cooper

[Morphological Computing and Physical Levels of Computation](#), Dodig-Crnkovic, Mark Burgin

- on the nature of causality

[Mechanisms and Causality - A research project](#), Contributors: [Jon Williamson](#), [Phyllis Illari](#)

- [Mechanisms in Medicine](#), Workshop, july 2017, “there is a growing body of literature that highlights the many benefits of considering evidence of mechanisms alongside evidence from clinical trials. For instance, evidence of mechanisms is crucial for interpreting clinical trials, establishing a causal claim, and extrapolating from the trial population to the treatment population.”
- [Causality : philosophical theory meets scientific practice](#), Illari, Phyllis McKay (en Biblioteca UNED)

[Why Theories of Causality Need Production: an Information Transmission Account](#), Phyllis Illari

[Searching for Productive Causes in Big Data: The Information-Transmission Account](#), Wheeler, Billy (2015) Searching for Productive Causes in Big Data: The Information-Transmission Account. [Preprint]

[PROCEEDINGS OF THE SYMPOSIUM ON NATURAL/UNCONVENTIONAL COMPUTING AND IT'S PHILOSOPHICAL SIGNIFICANCE](#)

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