Christophe Rigon / Soto² ⬜ - Scybernethician @ki_cog
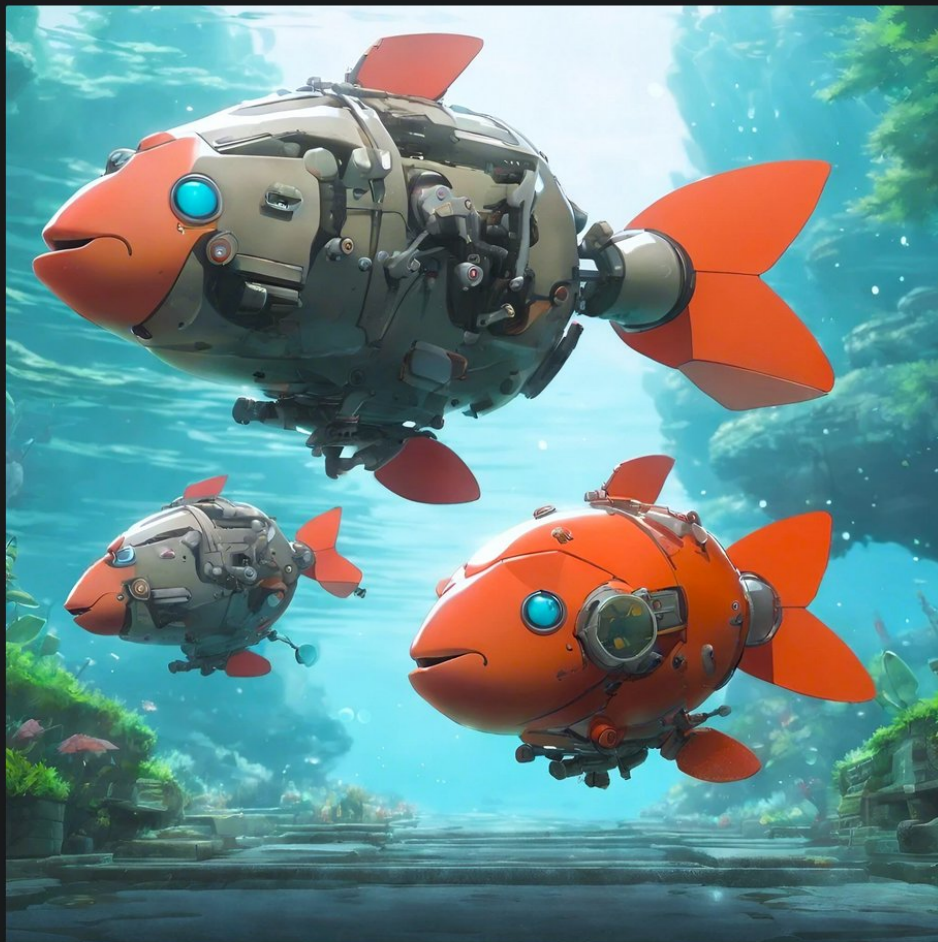
Aug 24, 2024 • 14 tweets • ki_cog/status/1827246030779236646

[Toward the Automatic Scientist] 🧵

As I have predicted more than a year ago, and while 3P-Only/materialist scientists are still caught in a neurocentric conception of the mind, the industry is pushing toward "self-modifying" ANN models leading to the "automatic scientist".

The AI Scientist: Towards Fully Automated Open-Ended Scientific Discovery
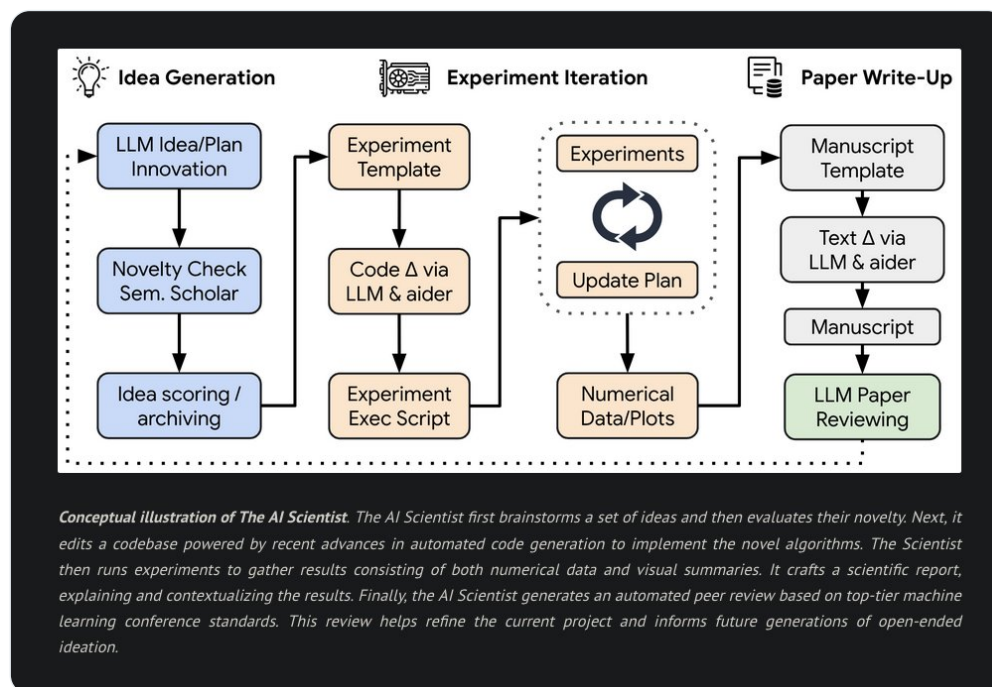August 13, 2024

Here is a blog post that details this strong strategic trend, with supporting publications:

"The AI Scientist: Towards Fully Automated Open-Ended Scientific Discovery.

👉

Conceptual illustration of The AI Scientist. The AI Scientist first brainstorms a set of ideas and then evaluates their novelty. Next, it edits a codebase powered by recent advances in automated code generation to implement the novel algorithms. The Scientist then runs experiments to gather results consisting of both numerical data and visual summaries. It crafts a scientific report, explaining and contextualizing the results. Finally, the AI Scientist generates an automated peer review based on top-tier machine learning conference standards. This review helps refine the current project and informs future generations of open-ended ideation.

It is quite fascinating, but also unfortunately dramatic, to see how my own conception of transduction, induced for almost a century by the "information revolution"

and by the digital culture (both formal and procedural/practical) that resulted from it, have collectively shaped minds, including many scientists and philosophers.

So much so that what is happening right now is like a mirror image of my own experience: where I used these models to understand my own mind (to the great damnation of a scientific epistemology "without subject"),

the industry uses them geostrategically to create the generalized illusion of a golem (AGI) in epistemologically uninformed and historically blinded minds.

I even come to think that the so-called "AI godfathers" (the rhetorical machine in full swing) are totally unconscious of what they are doing: the important thing is the "fait accompli", it is "true" since "it works",

in accordance with the *functionalist* epistemology dominating contemporary "empirical" science. But with a twist: we do for the sake of doing, and we rationalize abusively a posteriori, in accordance with the logic of "(psycho/neuro)marketing".
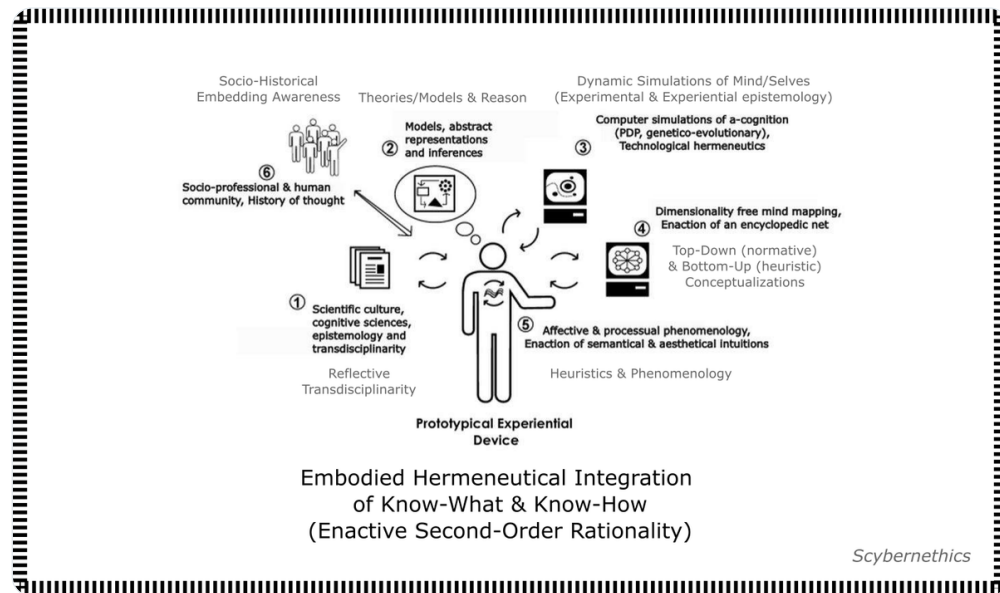
This attempt at global mystification is after all only the reiteration of the one that already took place in the 50s-70s with the appearance of the computer, then in the 90s with the Internet: having convinced the entire population,

by generating a new cognitive and phenomenological domain, that machines "calculated", that they "cybernetically" simulated reason, under the noses of scientists,

only too happy to perceive this gesture as a valorization of the mathematical approach, this abstract "science of sciences", whose mastery is a proof of scientific intelligence.

However, there is another way to understand this transduction and to use it, not to create the normative illusion of a golem (AGI), induced by the technology-by-itself fallacy in phase with the naively realist world-by-itself one),

but virtuously to extend our own understanding, intelligibility and experience of psycho-cognitive phenomena: I called it "scybernethics".

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