

[Applying second-order thinking : "Deep Learning" techs]

"Coding/programming" involves creating a relation/function between an input and an output, implementing a pre-designed behavior in the machine that can be automated.

ANN/PDP used in an associationist way ("Deep Learning") does this "automatically". This is why one of the first applications of LLMs is to automate programming, leading to *exponential productivity* of the Computer Tech Bros.

We are therefore now confronted not only with automatic computing machines (based on a technology that almost no one really understands), but with pseudo second-order computing machines: an apparent calculation of calculation (quasi-calculation²).

"Pseudo" second-order, because unlike living beings, the mechanic second order does not have the associated *recursive dimension* inherent to the living process,

in the same way that pseudo second-order cognitivist thinking lacks the ambijective gesture (which is a reminder of this forgotten non-linear dimension of knowledge).

(cf.)

https://x.com/ki_cog/status/1747216814294097971

It is important to remember here that the work of (the forgotten) Church, in the *Church-Turing thesis*, was to define "calculation/computation" based on...

recursive functions! Which we quickly hastened to put under the carpet, a bit like creativity in science: it is only implicit and for "informed experts".

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