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No AI Revolution On The Horizon

By *Engleheart Changworthy* on *Sunday, 8 September, 2024*

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Image by Digital Baker

Recently, Rob Mason, wrote an article here called "Revolution", which contained what I think is a rather optimistic perspective on artificial intelligence (AI) and what it is on the verge of doing for us - or some might say to us.

I am hugely enthusiastic about AI. I must be, it's in my job title. The breakthroughs that have arrived over the last couple of years as novel services like ChatGPT have been released to the public have been impressive, as are the advances made in computational AI power and capacity. Nothing "NAIVE Networks and Synapses" in the Semantic Web Stack to see here.

Nevertheless, I must tell you, that in my view, the gap between the hype and the reality is a yawning chasm of unfortunate depths. My industry perspective is that very little of what Rob expects to see in the next few years is likely to materialise on a 10-year timescale, let alone the 5-year timescale he's focused on the corner.

For example, the promise of autonomous vehicles (AVs). Today, autonomous trains, trams and trains are doable. Autonomous cars are not. Why is this? A few reasons, such as trains being on rails limiting the number of variables the system has to account for, whereas trains in motion can pretty much be completely isolated from uncontrolled environments. Trains are also heavy, so have momentum. Without an unfathomable global step change, cars will never be true road users.

Then, all trains of this nature have and almost all of them have been scrapped or shelved, either by their sponsors or by the government. Some high-profile and recent legal cases have been taken relating to AVs over the last few years. There are too many catastrophic failure modes for AVs to be currently have and no good answers. Solutions are going to take years. Legal liability is a massive unresolved issue. If the AV kills someone, who is to blame? Who gets sued? Who goes to jail? Who decides how much to pay the family and requires the sizing problem? Without significant legal and ethical changes - none of which should be made lightly or by ill-informed lawyers and politicians - there is no satisfactory way to address these questions.

The agency problem is also true with any kind of robotics in any situation where they mix with humans, either directly or in terms of the products and by-products of their work. Some person somewhere must accept responsibility for the AI. Good luck finding that guy.

Current AI technologies can certainly assist with a variety of jobs and even reduce the number of people needed to do some of those jobs, but they cannot replace them entirely. Not even close. Generative AI is a prime example. It's very good at what it does, but it's not very good at what it does. It's not very good at what it does because it's not general intelligence. Corporations have kept pronounced, but only on an unsustainable economic and environmental power that are in use is astounding machine-like brain of a human being. Generative AI is not. It's a very sophisticated pattern recognition and reproduction machine. Behind that legal personhood is a brand and a CEO who are all - despite improvements to the various - and legal personhood. What do you even do with a robot that has killed someone? Robert Jeff Court AI is one of the same software, what does that do? Can it even have motive?

True innovations such as artificial general intelligence (AGI) where an AI is capable of replacing a rounded, competent human being, is probably not going to happen in our lifetimes. Not even close. Not even in the lifetimes of our children. Not even close. Not even in the lifetimes of our children's children. Not even close. Nobody knows (LLMs) that employs how ChatGPT are unanimous and on a crude and incomplete understanding of what language. Even in current thinking in cognitive science is that language is not necessary for thought. Models of the world are built in abstract models trained on a corpus of text. It is an experience and a process of interaction between the environment, and that physicians, emotions and irrational urges, and all of these things are in the game, be that, logical, irrational or inspirational.

"The idea is that cognition doesn't end at the brain and the person doesn't end at the skin. Rather, cognition is extended. Personhood is messy, ambiguous, intertwined with the existence of others, as we've said before, speaking to The Register.

Something like Alpha Fold is a good example of where AI can work - using machine computing power and statistical techniques like stochastic gradient descent to essentially throw a trillion guesses at the wall and see what sticks. That isn't going to work for developing anything that is currently done by humans, because we don't know how we do it. We don't know how we do it because we don't know how our brains work. The modern generative AI models are black boxes.

Transcription - or another who writes a column for The Spectator - recently demonstrated how unimpressed that ChatGPT is going to take his job. I'm pretty sure that if this happens, it will be because - essentially as he - isn't a very good or original writer. What do you even do with a robot that has killed someone? Robert Jeff Court AI is one of the same software, what does that do? Can it even have motive?

Even with all of this, I'm not worried. I'm not worried because I'm not worried. I'm not worried because I'm not worried. I'm not worried because