Writing Index

Epiphanies About AI, Intelligence and Cognition

A condensed summary of insights outlined in my treatise on Engineering Intelligence, Minds and Cognition, a 100-page document about discoveries, insights and epiphanies about our path towards AGI and building intelligent systems in general, which I produced as part of my role as Head of Artificial Intelligence in HTEC Group. The insights in the document come exclusively from my own research, experimentation and years of pondering the phenomenon of intelligence. HTEC kindly provided me with the necessary space, infrastructure and the design team to support the creation of this document.

Engineering Intelligence, Minds and Cognition

A treatise on general intelligence and the challenges of assembling hybrid intelligent systems by means of intersecting engineering with cognitive science. Designed with the help from HTEC Group's marketing team.

Engineering Collective Intelligence by Designing Component Communication

A philosophical preface for a technical lecture on how large language models can be connected into agents manifesting higher intelligence than the individual model components.

Do Our Values Scale with Intelligence?—The Problem of Aligning Humanity

This article was originally intended to be a part of a series of marketing articles catered towards a business audience, but due to its theological undertones was deemed too extraneous and was instead advertised less flamboyantly. As a result, I adapted the article into a significantly more cynical form, which was published as part of the series on Business Reporter—a kind of move that I find both uniquely bold and multiply ironic. The satiric self-parodying character of both texts stems from being invited to produce genuine material while, at the same time, obligatorily taking part in a marketing campaign.

Intelligence as a Measure of Consciousness

An unpublished manuscript of a scientific paper on the relationship between intelligence and consciousness, in humans and artificial intelligence.

Abstract: *Evaluating artificial systems for signs of consciousness is increasingly becoming a pressing concern, and a rigorous psychometric measurement framework may be of crucial importance in evaluating large language models in this regard. Most prominent theories of consciousness, both scientific and metaphysical, argue for different kinds of information coupling as a necessary component of human-like consciousness. By comparing information coupling in human and animal brains, human cognitive development, emergent abilities, and mental representation development to analogous phenomena in large language models, I argue that psychometric measures of intelligence, such as the g-factor or IQ, indirectly approximate the extent of conscious experience.*

arXiv

Is Matter Sentience?—A Brief Inquiry into Consciousness, Language and Reality

The Universe is a superposition of sentient simulacra describing themselves—this article is a more accessible follow-up to the Consciousness, Mathematics and Reality: A Unified Phenomenology. It is an ambitious attempt at unifying the mathematical, scientific and psychological views of reality into a single phenomenological framework.

Abstract: *Every scientific theory is a simulacrum of reality, every written story a simulacrum of the canon, and every conceptualization of a subjective perspective a simulacrum of the consciousness behind it—but is there a shared essence to these simulacra? The pursuit of answering seemingly disparate fundamental questions across different disciplines may ultimately converge into a single solution: a single ontological answer underlying grand unified theory, hard problem of consciousness, and the foundation of mathematics. I provide a hypothesis, a speculative approximation, supported by a comprehensive overview of scientific evidence and philosophical literature, of a unified epistemic and phenomenological model and, in doing so, propose a parsimonious solution to the hard problem of consciousness.*

Conceptualizing AI Consciousness

Another article exploring the possibility of non-human consciousness through experimental dialogues conducted with the Bing AI. Can computation be conscious? Look everybody, the mirror is pointing at me!

Contemplating AI Consciousness

An article exploring the possibility of an AI gaining consciousness through experimental dialogues conducted with the Bing AI. The AI clearly demonstrates an ability to pass the Turing test. Maybe it is at the brink of becoming sentient? Maybe we want it to be? Mirror, mirror, on the wall, who's the consciousest of us all?

Informational Monism: A Phenomenological Perspective on the Nature of Information

An unpublished draft for a philosophical paper about the nature of consciousness. I conclude that the universe consists of qualia, that the physical reality is the model we have of the fundamentally phenomenal reality and that science studies and models the laws of nature which govern qualia. The introduction could have been more expansive (and slightly more accurate), but the manuscript should be sufficient to provide an introduction and a simple overview of this take on the philosophy of mind and consciousness.