

Fundamental Difference between Natural and Artificial intelligence

The presentation centered around a comprehensive exploration of the dynamic interplay between artificial intelligence (AI) and natural intelligence (NI), encapsulating a series of key questions that underscored the complexity of this relationship. The initial focus lay on the diverse nature of AI and NI, emphasizing the challenge in defining intelligence while highlighting its recognizable manifestations. The discourse also addressed the intricate nature of the brain's functionality, underscoring that functional circuits transcend mere anatomical configurations, and intriguingly, the argument that the brain itself and even neurons might not be imperative for realizing NI, wherein cognition is posited as an intrinsic quality inherent to macromolecular and cellular structures. A pivotal segment delved into the ethical dimensions and emotional limitations of AI, contending that the achievement of complete Artificial General Intelligence (AGI) is not only unfeasible but also unnecessary, advocating for AI's contribution in enhancing our comprehension of NI and vice versa in broader scientific paradigms. In this context, the concept of hybrid systems emerged as a tantalizing avenue for both augmenting human capabilities and remedying inherent limitations.

The presentation concluded with an examination of the Evolution-Development (Evo-Devo) implications, investigating the plausibility of computational models within biological frameworks and exploring the intriguing Penrose Three Worlds concept (Physical->Mental->Mathematical->) within this evolving narrative and its in silico unification. In sum, the discourse provided an illuminating insight into the multifaceted connections and debates between AI and NI, delving into their distinctions, ethical contours, and more importantly evolutionary connotations.