

Future Forms of Consciousness and the Accelerated Artificial Intelligence Revolution

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Abstract:

Kurzweil raises the interesting question of future of our consciousness or conscious experience - when the accelerated Artificial Intelligence (AI) achieves the point he calls the "Singularity". However, from point of view of physics there exist pertinent questions on the debate - when one associates consciousness as arising from a non-material substrate. Some of these are - relationship of consciousness with, e.g. - (1) time or temporal dimension/s (which includes the arrow of time and existence of the "present moment"), (2) three spatial dimensions and extra dimensions (such as those arising in string theories and supersymmetry (SUSY) and supergravity (SUGRA)) (3) perception and its absence (in coma, under anesthesia and deep dreamless sleep), (4) universe and its origin, (5) brain (along dualistic lines of Eccle). The "3 dimensions" which we attribute to physical space are arguably a perceptual construct. The fourth dimension of time - though there exists reliable measurement device (clocks) - is an even more abstract mental concept. Tolle all together, replaces time from a line (going from past to future via the "present") to specifically the "point of the present moment". The concept of matter consisting of particles such as "electrons" is as argued by Bohm et. al., mere mathematical frame work. While one is able to make devices based upon such concepts, such as Artificial Intelligence (AI) on computer chips, still there are serious fundamental, unresolved, issues of physics such as - questions in quantum mechanics about causality, EPR paradox, Quantum Gravity, issue of extra dimensions... and more..., and than those issues about which we are not even yet aware of - which may have an important role in future evolution of consciousness. The questions we ask and address are - (1) What would be our perceptual experience if we had one more sense organ? What is it we would see?, (2) What if we could see and enter into another extra dimension or dimensions? Would the accelerating AI revolution, as visualized by Kurzveil - the evolving man-machine interface, - the singularity - help us see these two?. Such devices may be termed as perceptual enhancers. Then it is a win-win situation, for AI as well as the non-material consciousness. Producing machines better at chess, driving, shooting, number crunching, petabyte processing, expert systems ... is one line of progress - of enhancing human capabilities. Given the accelerated AI, one can visualize a time in near future, when the Nanobots in brain - would be making more friendly people, and acting as God spot activators, Spiritual experience creators. The usual consciousness is not there when we have the flat EEG or slow delta waves EEG. This suggests, there is a definite interaction between the non-material substrate of consciousness (Soul) and the "Electromagnetic fields" in brain - which produces consciousness. One can speculate that the solution may lie in a theory of Super quantum gravity (SQG) - of which the loop SQG is promising.

Keywords: Supersymmetry, Super quantum gravity, Accelerating AI revolution