The proposed quantum computational basis of deep ecology: its implications for agriculture

Monendra Grover
Amity Institute of Biotechnology, Amity University, NOIDA, UP, India
Present Address:National Bureau of Plant Genetic Resources, Pusa, India
email: monendra_grover@yahoo.com

Abstract

Quantum computation has been proposed to generate consciousness. The terms atman field and consciousness vector have also been used to describe the properties of consciousness. It has also been proposed that the human activities should lead to increase in the magnitude of the consciousness vector of the universe. The universe is increasingly being seen as one system and the earth is a constituent of the universe. Thus the agricultural practices should increase the magnitude of the consciousness vector of the earth which will lead to increase in the magnitude of the consciousness vector of the universe. I examine this proposal in detail in this paper.

Introduction

The term consciousness vector has been proposed earlier, (Grover, M. 2011). According to quantum electrodynamics, particles are excitations in a field. Hence, all particles have fields associated with them and all fields have particles associated with them. Fields associated with conscious particles would exhibit consciousness. Fields, like electromagnetic fields, would also be associated with a consciousness. The conscious zero point field has been called the "atman field" (Alfred, J., 2007 http://www.dapla.org/conscious_particles.htm). Each individualized atman or "atman particle" can be considered a fundamental unit of consciousness and an excitation in the atman field. The atman field can be represented by the consciousness vector.

The consciousness vector can be visualized as representing the atman field. I have also postulated that human activity including agriculture, medicine and technology should increase the consciousness vector of the universe. In this paper I further explore this hypothesis for agriculture. Though it may seem far fetched that agricultural activities should increase the consciousness vector of the universe, the pan universal nature of human activities should be apparent in future, since the universe has been considered as a single system and the parts are intricately woven into one single whole. Ludwig von Bertalanffy used the word systems in 1967 in introduction to his book General System Theory. (von Bertalanffy , 1969) According to Bertalanffy obsolete science "tried to explain observable phenomenon by reducing them to an interplay of elementary units investigatable independently of each other". Modern science on the other hand recognized the relevance of "wholeness" defined as "problems of organization, phenomena not resolvable into local events, dynamic interactions manifest in the difference of behavior of parts when isolated or in higher configuration etc; in short 'systems' of various orders not understandable by investigation of their respective parts in isolation". With this perspective the universe is increasingly regarded as a single functioning system. From the point of view of agriculture however it is imperative to consider my viewpoint from the earth's perspective. It is notable that increase in the consciousness vector of the earth would increase in the consciousness vector of the universe since earth is a part of the universe.

The deep ecology hypothesis, quantum computing consciousness and agriculture :

It has been proposed that in the human brain there is a superposed state of 10^9 quantum registers which is also the number of superposed tubulins- qubits in our brain. These qubits in our brain undergo the orchestrated objective reduction (as proposed by Penrose-Hameroff) leading to a conscious event. (Zizzi, P., 2006) It has been postulated that elementary particles also possess the consciousness. However this consciousness is lost in inanimate matter due to non alignment of the consciousness vector in the elementary

particles constituting the inanimate matter. According to the proponents of the deep ecology (Naess, 1973) there is a need for re-enchantment of the world that honours and embraces every animate and inanimate element on the earth. This can be explained from quantum computational point of view. I postulate that the judicious use of natural resources will increase their consciousness vector, resulting in the increase in the consciousness vector of the earth and ultimately the universe. This is relevant for the animate matter as well as the inanimate matter on earth. The consciousness vector of the inanimate matter will increase which will become conscious under ideal conditions (i.e. the judicial use of natural resources). Similarly consciousness vector of the living organism will increase resulting in higher states of consciousness of the living organisms.

The Gaia hypothesis, quantum computing consciousness and the agriculture:

The views presented in the above section are consistent with the Gaia hypothesis. The earth has been postulated to be a living organism (Lovelock, 1965) which itself implies that earth is conscious. As elaborated earlier the agriculture should be practiced in such a way that the magnitude of the consciousness vector of the inanimate and animate matter on earth is increased. As mentioned earlier this would mean that already conscious living beings would achieve higher states of consciousness

Biotic stress in crops and consciousness

One of the prominent factors affecting crop productivity is the infection of crops by various pathogens. Many agricultural practices are focused on removing these pathogens from crop plants. These include production of disease resistant plants by breeding methods and using transgenic technology. The transgenic technology should aim to increase the consciousness vector of the plants. More specifically if a protein is involved in positive response of plants to pathogen it should be engineered so as to increase the consciousness vector of the protein so that the consciousness vector of the proteins involved in plant defense is greater than that of the pathogen proteins. From a broader perspective the consciousness vector of the naturally occurring molecules involved in the defense response of the plants to pathogens may have greater consciousness vector than the molecules (proteins, metabolites) involved in disease susceptibility. At a global level the infection by pathogens decrease the consciousness vector of the plants

Abiotic stress in crops and consciousness

Abiotic stress is one of the major factors leading to yield loss in crop plants. The proteins involved in abiotic stress resistance possibly increase the consciousness vector of the cells, tissues , organelles and plants in which they are present

Plant yield, nutritional quality and other agronomic characters of plants and consciousness

The factors which increase plant yield nutritional quality and other agronomic traits of the plants increase the consciousness vector of the metabolites and proteins involved in such processes. This results in increase in the consciousness vector of the cells, tissues and organelles in which they are present and ultimately the plant.

Environment-friendly agriculture and consciousness

Environment-friendly agriculture stresses on the freshness and safety of agricultural products, preserving the soil and surrounding environment at the same time. The household income of farmers is also enhanced. It preserves the agricultural environment by practicing Integrated Pest Management (IPM), Integrated Nutrient Management (INM), utilization of natural enemies as pesticides (instead of chemicals), flora damage prevention technology through judicious use of herbicides, and crop rotation to ultimately achieve a comprehensive and reasonably planned sustainable ecological system.Integrated Pest Management (IPM) is a method to suppress excessive use of chemical pesticides The practice leads to a more sustainable and ultimately safer, healthier and more productive ecosystemIntegrated Nutrient Management (INM) is a method to maintain agricultural production and minimize environmental damage by using environment-friendly fertilizers in precise amounts only after a thorough examination. The practice reduces fertilizer costs and environmental damage simultaneously improving the quality of the produce**.** The practice of environmental friendly agriculture would possibly lead to increase in the consciousness vector of the plant and probably the whole ecosystem.

References

[1] Grover, M. (2011) The Quantum Computing Conscious Universe and The Extended Deep Ecology Hypothesis: Implications for Medicine, Agriculture and Technology. Communicated
[2] Von Bertalanffy, L. (1969) General system Theory, Foundations, Development, Applications (George Braziller, New York)
[3] Zizzi, P. (2006) Consciousness and Logic in a Quantum-Computing Universe. In The Emerging Physics of Consciousness, Tuszynski, J.A. (Ed.) ,Springer
[4] Næss, Arne (1973) 'The Shallow and the Deep, Long-Range Ecology Movement.' Inquiry 16: 95-100
[5] Lovelock, J.E. (1965). "A physical basis for life detection experiments". Nature **207** (7): 568–570.