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A Look into the future of Biofield Applications

Rai Sachindra Prasad Saroj Prasad

Abstract— Biofield concept is not new. It first started in 19th century but attracted little attention for several decades. However, with passage of time, new evidences were produced for its existence and its clinical benefits in various ailments. Since then the importance of this exciting field has emerged on the world scene: the latest application being in Complementary and Alternative Medicine (CAM) for human beings. Ironically, no measurement techniques for assessing impact of Biofield in diagnostics and therapy have been forthcoming so far. The basic reason for this, as investigated by experts, has been the nature of biofield as highly non-linear, dynamic with rapid changes in pattern, and chaotic for which no mathematical analyses/instrumentation are present. This paper reviews briefly the studies made so far in the biofield concepts and imaging with particular applications in relation to human body and mind, and then projects the possible future trend of biofield applications based on scientific approach. In particular this paper highlights the future trend of biofield applications using color pattern in the aura (biofield) of human beings. It would be possible to identify a individual's nature, i.e. useful or non useful for society, by digitizing the color patterns for taking corrective measures.

Keywords— Biofield, Meditation, GDV/ EPI techniques, Color detection, Aura.

I. INTRODUCTION

It is well known that human beings are the highest form of evolution of life. The knowledge of the functions of brain and nervous system greatly facilitate the understanding of biological and evolutionary basis of human behaviour considering that it is the brain alone which is the source of all actions that follow. However, because of the lack of proper motivations and directions, the mystery of human behavior vis-à-vis brain's working has hardly been solved even to the extent of ten percent as per experts in neurology. In the Hindu mythology, and in their sacred scriptures like Vedas and other Holy books, it is stated that in the ages past it was an easy task to materialize instantly any thought that emerged in the human brain. It was quite an easy task to accomplish anything by mere concentration of thought. It is not difficult to comprehend that every thought that one sends out is a vibration which never perishes. It goes on vibrating every particle of the universe whether the thoughts are noble or not. They resonate in vibration every sympathetic mind. Unconsciously all people who are alike in their thinking will take the thought one has projected, and in accordance with the capacity that they have, they send out similar thoughts. The result is that without our knowledge of the consequences of our action, we will be setting in motion great forces which will work together [1]. In sharp contrast, in today's world of chaos

and disorder to the utmost, such possibilities are generally dismissed as figment of imagination or a fantasy, since no scientific proof has been provided. A massive arsenal of destructive weapons including nuclear war-heads, biological and chemical weapons, together with pockets of completely wanton society devoid of moral values, are all pointers to some negative aspects in the development of science and technology. However, some very encouraging developments in science and technology have also taken place since last twenty five years. These new findings relate to measurement and visualization of human biological field, often referred to as biofield [2]-[3]. These findings are primarily a proof of the existence of electromagnetic field around all living organisms, with potential applications in clinical tests, diagnostics, and therapies for human beings. Living organisms are incredibly complex machines [4]. A brief review of these works by scientists is presented next. Some recent interesting examples of scientific applications of the new technologies for measurement and visual presentation of human aura (biofield) are cited, and next in section III we discuss the devices used in biofield applications, while in section IV, with the available resources in mapping biofield, we project some possible future applications of significance which today are far beyond the boundaries of medical diagnosis and therapies. In particular, we propose ways and means to identify the type/ nature of an individual on the basis of thought-waves (biofield) mapping which will have tremendous potential not only bringing revolution in medical imaging for diagnostics, but also more importantly, for transformation of perverted minds of individuals resulting in a healthy and useful society. Finally we conclude giving our views on the future trend of biofield applications.

II LITERATURE REVIEW

Concept of Biofield

In 1935, E Bauer formulated the fundamental functioning principle of biological systems and called it "the principle of the permanent inequilibrium" [5]. He stated "All and only the living systems are never in equilibrium and are using their free energy for continuous work against the equilibrium that is required by the laws of physics and chemistry under current external conditions." Subsequently, Gurvitch [6] opined that 'life is an uncontainable, structured, goal - oriented process'. According to Bauer, this principle arises from the fact that all living matter is characterized by self-induced changes of its state; and upon any kind of external influence the system must perform work that would influence the alterations of state induced by said external influence, thus changing them". The impact of external influence would, however, be generally different for each individual due to dissimilar mental approach. Therefore, it is essential to map or identify the thought process to take corrective measures, if needed. These corrective measures include medical diagnosis, therapies, and replacement of wrong (likely to harm social fabric) thoughts with right ones.

When we discuss the multi-level structure of the human being we come to understand the inseparability of the psychological and the physical and the physiological parts. Prof K Korotkov [2] represented it by a simple diagram:
Soul => Brain => Nervous system => Physiology

Although the above relationships may look bizarre to neuroscientists of today about the appearance of the term 'soul', however, Prof Korotkov, the renowned physicist, introduced it on the strength of the comment by renowned physiologist V.A.Ponomarenko, M.D., Professor, and member of the Russian Academy of Education, viz., "Psycho-physiologists should not try to avoid the concept of a soul. Soul incorporates intellect and mind, as well as the most important thing – the experience obtained from phenomena of the world around us... In other words, the difference between a professional and a specialist lies in the ethical core of the individual." Comprehending the role of soul in neuro-system by neurophysiologists becomes awkward because they view the body of a human being as a machine, and treat it as if it was simply a collection of parts and all therapies are tailored accordingly, i.e. treating each malfunction in a particular functional part of human body. But a second stream of view recognizes it as a holistic living system, exchanging energy and information with the environment. These two contrasting modes give rise to two very different types of healing [3]. One is the standard "biomedical" model; the other is the "biofield" or "energy" model typical of many alternative or complementary healing practices and medicines (CAM). The basis of CAM therapies which include: Ayurvedic, homeopathy, etc. is the reliance on a "vital force" as the basis for a person's health and healing [3]. However, there is strong reservation to this theory by medical practitioners of biomedical group in the absence of knowledge of how CAM modalities work. Luckily, the Government of India has just started clinical tests of Ayurvedic and homeopathic therapies on patients in some reputed hospitals' laboratory at Delhi. The realization of the importance of biofield based therapies emanates from mainstream science that living organisms are complex, nonlinear, self-organizing systems. They constantly exchange energy and information with their surroundings in a dynamic process to achieve equilibrium state. A detailed review of the topics of research (biofield) in which the scientists are engaged at present can be seen in Rubik's paper [3]. The celebrated German Physicist Prof Hans Peter Duerr [7] criticizes the wrong approach being followed in the current medical practice and strongly advocates the understanding of life in terms of modern physics rather than biochemistry. The book referred to in [7] is based on complex and technical discussions among German scientists. The most significant areas focused are: role of invisible energy fields in inter-communications among human beings, and the invisible energy field (biofield) emitting its own light (biophotons). It is worth noting that Prof Korotkov [2] talks about soul and spirit included in the biofield while Dr Rubic [3] defines the biofield as 'the endogenous, complex dynamic electromagnetic (EM) field resulting from the superposition of component EM fields of the organism'. These views along with undisputed acceptance of biofield, unique in light emission associated with each human being, opens up a tremendous interest in research with possible huge impact on individual and social

fabric of human life which is presently torn with strife and conflict. While some significant research on biofield applications in medical science have been reported [8]-[12], what has been missing so far, and in my opinion which is extremely important and most challenging is the discovery (display) of unique pattern of light, which biofield of each human being depicts. The particular attributes (color) of biofield are dependent upon the thought forms of an individual referred to in theosophical literature [13]. A few diagrams of these thought forms taken directly from the book are shown below as examples of the type of individuals revealed in their thought forms, since the thought waves compose the aura (biofield) as stated in [13], and existence of color emission supported in [10]-[12], [14]. It is said [13] that the 'seers' (those who possess extraordinary powers like clairvoyance) identify a human being, i.e. the type or nature of the individual being good (noble), evil, or ordinary not by superficial look of the faces but by the color pattern emitted by the auras. Today's science would not believe it because of the absence of proof, but this is what is going to be the next best research finding with profound impact on social platform! We discuss the future scenario of such a possibility later in this paper.

Consciousness: material or non-material?

Consciousness is often dismissed by scientific community as a figment of imagination simply because it is non material and cannot be measured or captured physically. This is the outcome of acceptance of the modern materialistic view of the brain as the organ of consciousness, viz., every aspect of visual experience is a consequence of electrochemical interactions within our physical brain due to stimulation from the eyes. This leads to a direct correspondence between the physical state of the brain, and the corresponding subjective experience. As argued in [3], this percept can be viewed in two different contexts, viz., as a pattern of electrochemical activity in the physical brain which are essentially neural spiking frequencies, and as a subjective experience expressed in terms of subjective variables such as perceived color, shape, or motion. Thus they constitute the two different manifestations of the same underlying structure. In his paper 'Space, Time and Consciousness', John Smythies [15] describes a new theory of consciousness based on previous work by philosophers C D Broad [16], H H Price [17], and physicist Andrei Linde [18], viz., (1) the demonstration by neuroscience and psychophysics that we do not perceive the world as it actually exists, but as the brain computes it most probably to be; (2) the need to delineate between phenomenal space-time and physical space-time. John Smythies [15] concludes that the consideration of these issues suggests a new physical theory of the nature of consciousness. "The flow of visual information is exclusively unidirectional, from the world through the eye to the brain. The causal chain of vision clearly shows that the brain cannot experience the world out beyond the sensory surface, but can register only the data transmitted to it from the sensory organs". Prof Korotkov [2] defines consciousness as the ability of a subject to react to environmental information and change its behavior in accordance with this information. We tend to agree with the concept of consciousness as defined in Prof Korotkov's statement. But it also means that a subject (human being) is liable to change his/her consciousness with every change in

the thought process over an event that takes place. 'Good' thought and 'bad' thought would generate two types of consciousness. Good thoughts generating 'good' consciousness are those which accept direct information from the higher planes of consciousness and convey this information to other people [2].

III DIVICES USED IN BIOFIELD APPLICATIONS

A literature review on the devices used can be found in the books [19], [20]. In 1996 Prof Korotkov developed a range of instruments for stimulation, recording and processing of electro-photonic images and called his technique Gas Discharge Visualisation (GDV). With the creation GDV systems in 1995 the research into these glows gained momentum as well as scientific status. The GDV technique is based on so-called Kirlian effect, named after Semion Kirlian who first recorded and studied stimulated electro-photonic images around various objects. Since then serial production of the devices has been established, and a system of software programs for applications in medicine and biology has started. Researchers have shown that the characteristics of the glow of a 'person's cutaneous covering depend primarily on the activity of the autonomic nervous system, with special consideration of the system of adaptation levels' [2]. In parallel with GDV the term Electrophotonic Imaging (EPI) is also being used to name this technology. One of the most significant applications of the GDV technique today is assisting health professionals in quick and accurate assessment of human state and in comparing effectiveness of various therapies. [14]. GDV instrument is shown below.



The authenticity of these devices may be judged by the fact that the GDV system is certified by the Ministry of Health of the Russian Federation as a medical technical device. A review of published papers on medical applications of EPI technology may be found in [19]-[22]. It has been made possible to apply these GDV/EPI technologies in many other areas as well including research into fluids and materials, human interactions with materials. The science and protocol for the EPI instrument was developed by a team of internationally renowned physicists, physicians, programmers, and technicians. Russian Health Authorities recommend the use of EPI for general use, following clinical trials and the recommendation of the Russian Academy of Sciences. EPI utilizes a weak, completely painless electrical current applied to the fingertips for less than a millisecond. The body's response to this stimulus is the formation of a variation of an "electron cloud" which emits light energy photons [2]. The electronic "glow" of this discharge which is invisible to the human eye is captured by an optical CCD camera system and then translated into a digital computer file.

Applications of Biofield measurement to human body and mind

Numerous publications by scientists from different countries have shown that the analysis of electrophotonic images allows registering the radiation activity from the biofield of any organism. The biofield emitted by the organism has a holographic structure but it does not represent a constant rigid formation-rather it is a living, fluctuating, breathing cloud, concentrated to a particular area of space, but not limited by any rigid borders. Scientists led by Prof Korotkov have demonstrated that all living objects change their aura continuously for seventy two hours even after clinical death [2], [12] to emphasize that this fluctuation in glow of entire body is independent of the physical movement of the body. To explain it further, even if the body is in perfect still position the glow changes in shape, size, and color (the last not proven yet). As emphasized in [14], no Kirlian camera can record true color of our aura, even if they use colour films. This is because three colour film (RGB or CMYK) cannot record spectral information of light. At present Kirlian cameras can reliably record only the intensity distribution of the aura. Original aura colour information is not available, but intensity maps of the aura are usually artificially "coloured" to show the "hot" and "cold" spots. Therefore, the challenge remains to map these colors in aura with advanced color detecting instruments which we discuss later.

The fluctuation in aura is dependent upon the individual's thoughts at any point- if the thoughts are non changing the fluctuation is not, but a little change in thought brings immediate response with fluctuations in glow. This fact was proved in laboratory by Prof Korotkov [2] when he states that the glowing halo around the body of an individual or his/her particular organs, for example an EPI-gram taken from a finger, remains constant and stable for a certain period of time and, therefore, two images taken with only a small delay will look almost the same. But if the individual starts thinking something other than the thoughts in earlier stance, e.g. the individual starts thinking about how to check the downward trend in his/her business fortunes then the glowing image of EPI-gram changes, it shivers and a gentle wave passes throughout the structure, touching its every section. This particular aspect of changes in biofield images with changes in thoughts occurring in individual's brain is the focal point on which this paper is based as far as future possibilities of biofield applications are concerned. Prof Korotkov maintains that the 'biological energy of humans reacts to ideomotor images and mental pictures, and an EPI-gram can be useful for psycho-physiological diagnostics of an individual's state and/or the state of mind'. The state of mind is reflected in the thought waves of individual which is highly significant on which this paper is built.

Noted philosopher Immanuel Kant in 1781 argued that there are in fact two worlds of reality, the material or external world being the source of the light that stimulates the retina, and the phenomenal world being the internal perceptual world of conscious experience, which is a copy of the external world of objective reality constructed in our brain on the basis of the image received from the retina. This means what many of us think within us-perceived through our senses and mingled with our thoughts at the moment-may actually happen to be

farthest from the truth. A real interesting example may be that of a color blind person, say, deficient in red color identification.

The reality of biofield of every human being has its origin, philosophically, in the concept of subtle energy bodies from the ancient philosophical views- particularly in India. Indian philosophy and Ayurvedic literature strongly believe that there is another invisible physical body in subtle energy form [23] which is extremely sensitive to the mental state of a person-being highly dynamic with unique colour pattern(s) corresponding to particular type(s) of thought originating in mind [13]. These color patterns are pointers to the state of thought process of the individual and the sages and seers (those with extraordinary sensory perception) distinguish between a noble soul and an evil one. So far scientists have been able to prove the existence of human biofield but they are yet to show that these fields are also characterized by a set of colors- some deep in intensity and some very light. I strongly believe while existence of biofield has resulted in clinical diagnostics and therapies, the development related to the design and implementation of color meters in biofield applications would also come sooner than later. The future trend of biofield applications would necessarily involve color identification-this is a strong hypothesis on which this paper is built. A possible instrumentation scheme for identification of multi-colored aura of human beings is described later in this paper. As rightly emphasized in [24], a scientific model of such a structure of the human's invisible physical body would require the scientists to look beyond the space-time dimension. Some noteworthy research efforts demonstrating the possible applications of thought waves are stated next.

There are several direct or indirect scientific proofs of power of thought-waves (read brain-waves) in literature which are not elaborated but are shown in references [25]-[27].

IV FUTURE TREND of BIOFIELD APPLICATIONS

Before we discuss the possible and most probable trend of this exciting field of applications, it is important to dwell at some length the importance of real meditation procedure against the neuro-physicians defined meditation procedure used in brain mapping.

There are several important functions of the brain which are absolutely crucial to the behavior and character pattern of an individual. Unfortunately, complete understanding of the functions of the brain has remained a very distant proposition so far. Among the most complicated and hitherto least understood by the physicists are the joint working of the two vital organs of human brain, viz., the pituitary gland and the pineal body. While the physiological psychologists are greatly interested in the roles pituitary glands play in behavior, it has been well established that the hormones generated from these glands play a vital role in learning and memory [26]. The pineal body, on the other hand, has hardly been known to neuroscientists with regard to its hidden power to change the course of an individual's behavior and character. As stated in [28], we have failed to realize that our body actually has three physical eyes- two seen externally and the third unseen but effect of vision felt internally. Our mysterious 'third eye' has long been believed to be the source of a higher inner vision by

the seers. The 'third eye' actually does exist in the form of a tiny gland, of the size of a pea, in our brain – the pineal gland and located in the exact geometric center of the brain behind and above the pituitary gland and attached to our brain's third ventricle. The true function of this mysterious gland has long been contemplated by philosophers and spiritual adepts. The ancient Greeks believed the pineal gland was our connection to the "Realms of Thought." The great philosopher Descartes called it the "Seat of the Soul." The pineal body works in direct harmony with the hypothalamus gland – the director of thirst, hunger, sexual desire, and the biological clock controlling our aging process. The pineal gland secretes melanin when we are relaxed and visualizing, and also responds to electromagnetic energy. At certain brainwave frequencies such as deep Theta, a sense of our ego boundary often vanishes. Our consciousness is then less concerned with our "physical" state. According to many ancient traditions, this is when our "third eye" begins to exhibit special powers. When in real mode of meditation, the role of pineal body is essentially involved. Studies made on the effects of meditation by some researchers [29]-[33] suggest that during meditation there are many physiological changes noticed.

A most significant application of biofield in future would be in identifying the 'unwanted' or 'undesirable' persons by identifying the colors dotting the biofield image of an individual. This is possible because each 'abnormal' person will have specific color bands which represent the temperament of the individual, e.g., deep red color would indicate a person in deep anger, a muddy color mixed with deep red indicates the temperament of a highly sensuous person in deep anger and likely to cause serious harm or injury which will be found easily in case of terrorists and murderers. Figs 1-13 are some typical actual photograph of thought-forms of some individuals showing different colors. These photographs, as seen clairvoyantly by the authors, are taken from the theosophical book [13].

We now indicate a probable and possible instrumentation for displaying color emanating from biofield (aura) associated with every human being. We suppose that following items in the chain of implementing the color identification procedure are possible with the existing state-of-the-art in displaying and capturing the aura:

- 1 Various devices have been developed that claim to assess aspects of the biofield, most of them electromagnetic in nature GDV/EPI techniques/ super-conducting quantum interference devices (SQUIDs) are able to capture the white glowing aura of the human being.

- 2 Texas' Hyper-Spectral Imaging system/ Lego Mindstorms Color Sensor (Lego 9841)/ Konica Minolta Color Intensity Sensing devices can appropriately identify color bands in the human biofield.

- 3 An 'ideal' individual who is able to enter into ideal meditation mode (defined earlier) is available for experimentation.

- 4 An electromagnetically shielded chamber is available for conducting experiments in order to avoid any interference or corruption from external signals to comply with precautions and instructions as discussed in [34].

Matching colors:

It is well known that the three categories of colors are:
 Primary colors: red, blue and yellow. These are the colors that cannot be mixed using any other colors. Secondary colors: Green, orange and purple. These colors are made by mixing primary colors in different combinations. Secondary and tertiary colors: Yellow-orange, red-orange, red-purple, blue-purple, blue-green and yellow-green. These are created by mixing a primary color with a secondary color.



Fig 1 A Vague Pure Affection

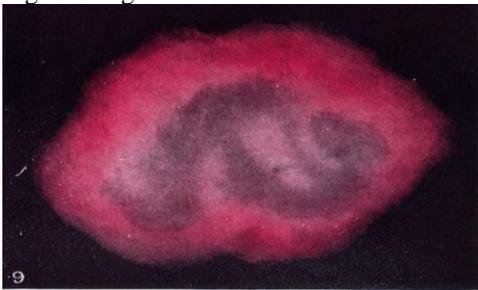


Fig 2 A vague Selfish Affection

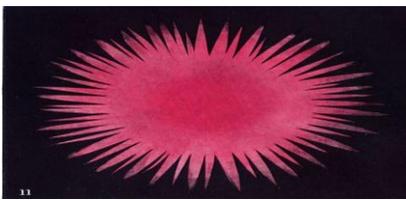


Fig 3 Radiating Affection

In a given aura, there is a strong likelihood of mixtures of colors with varying intensity and this imposes a serious challenge in interpreting the significance of aura with particular reference to decide the 'type' of individual whose aura is subjected to test. Thus there are three basic parameters for any computer generated algorithm for the decision making, viz., colors present in the aura, their intensity, and the 'types' of individuals.

A third potential application- which is even presently used in a preliminary form- is in clinical diagnosis of individuals using captured thought waves, biofield imaging, and color identification of the biofield image. The effect of therapy used can be also be identified by taking the images and brain waves recordings at some desired intervals.

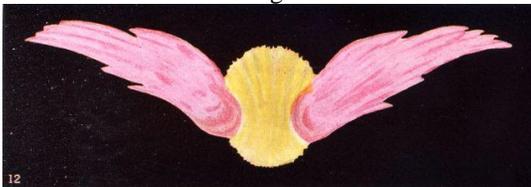


Fig 4 Peace and Protection



Fig 5 Animal Affection

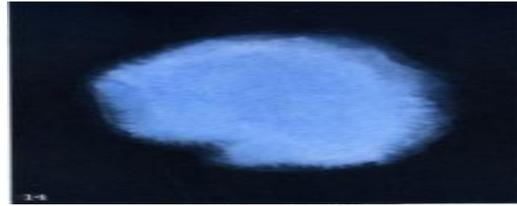


Fig 6 Vague Religious Feeling

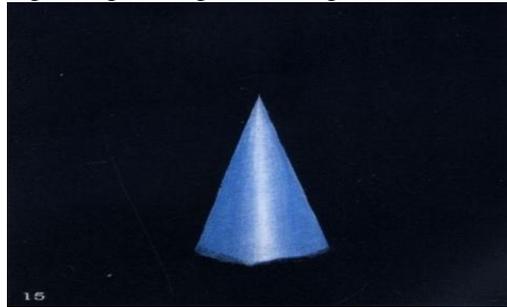


Fig 7 Devotion to God



Fig 8 Self Renunciation



Fig 9 Vague Intellectual Pleasure



Fig 10 Selfish Ambition

Recent Approaches in Human Biofield measurements

If it would be possible to measure all of the electromagnetic components of the human biofield, it would involve many teams of scientists from diverse disciplines- physicists, neuroscientists, biologists, instrumentation specialists, and computer scientists- to measure the emissions of color radiations from human beings at the various frequency

bandwidths using a plethora of detectors and high tech measurement devices. The real problem is color identification.



Fig 11 Explosive Anger

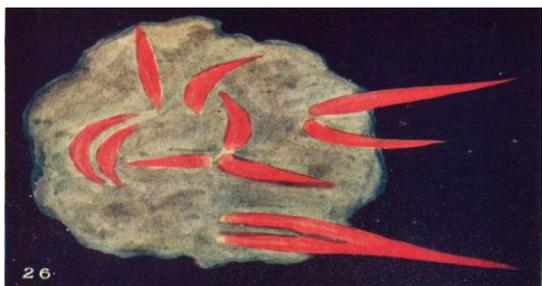


Fig 12 Angry Jealousy

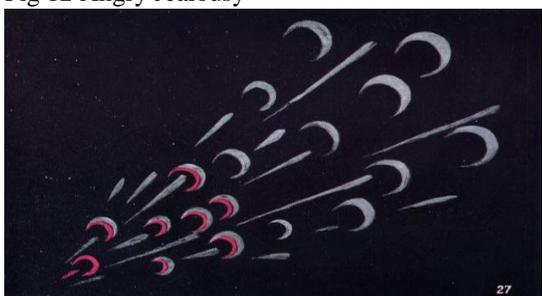


Fig 13 Sudden Fright

This spectral range is enormous. In some of these spectral regions, such as the infrared, as mentioned previously, the human body emits relatively high-intensity radiation, whereas in other regions, such as the visible spectrum, the body emits extremely low-intensity light radiation of the order of a few hundred photons per second per square centimeter surface area. Although the shape of the biofield image is also unique we disregard it here to keep it simple. This is based upon the logic that certain colors like light pink, light yellow, and light blue symbolize noble thoughts of individuals, particularly when found in single colors.

Algorithm for 'status' identification of biofield image

In this algorithm for status determination on the basis of color identification and matching, we use two main parameters of the type of color, i.e. red, yellow, blue etc. and the intensity (of color) and their combinations. Further, the intensity is itself divided into three categories of high (H), medium (M), and low (L). Though there are only three basic colors for color sensors, in a biofield image there can be all possible colors appearing to us due to different wavelengths in the color spectrum and due to different levels of intensity.

Now we state the steps in the algorithm:

Algorithm for Identification of Thought-form of Human beings

Problem Statement:

It is known that the thought forms of human beings can have many constituent colors. Each of these constituents may have different intensity levels. Further, with clairvoyant observations as well as from the limited scientific experiments of Prof Korotkov in medical applications it has been claimed that thought form of one individual differs from another in varying degrees. Since thought waves (aura) are inseparably connected with the thought process, i.e., brain's thinking, these represent the nature or type of individual(s) i.e., of noble (healthy) thoughts, and thoughts of anger, cruelty, and divine, etc. The task of the algorithm is to identify constituent colors, intensity level of each of the constituent, and then to infer the probable type of nature of an individual whose thought form has been recorded and exposed to the color and intensity sensors.

Assumptions:

Number of constituent colors = m (assumed maximum 7 colors), number of intensity levels = 3 (high, medium, and low), number of templates of thought forms = 13, instrumentation for capturing thought forms involves use of digital photo camera to record thought waves of individuals, and use of efficient color sensors, and intensity level sensors.

With m colors, the total of possible mixtures of these colours in photographed images of thought forms = ${}^m c_n = 127$, where $m=1,2,\dots,7$, and $n =$ number of possible combinations of constituent colors. Now since each constituent color can have any of the three intensity levels, the total number of identified intensity levels in the images = $({}^m c_n)^3 = 2048383$. This is a huge number and practically impossible for the algorithm to identify the nature of individuals' thought forms. In order to make it possible we have assumed that the possible types of individuals whose thought process in brain at the moment of image capturing are being sensed do not exceed 13. Thus only 13 templates would be stored and available for comparison with the recorded images. Assumption of only 13 templates is justified because our purpose is to identify only the broad spectrum of nature of individuals which fall into any of these thirteen types. Some typical thought form images from the author's [13] text indicate the typical images, constituent colors, and intensity levels and the problem of identification.

Steps in implementation of the algorithm:

- 1 Capture the biofield image of subjects under test
- 2 Expose the image to Color scanner camera
- 3 Digitize the identified colors in the capture image
- 4 Identify the intensity levels of each of the constituent color
- 5 Convert the H,M,L levels of intensity of the constituent colors into digital numbers.
- 6 Add the digital color numbers with the respective digital number of the intensity levels.
- 7 Compare with the templates' total number of digital number of colors plus the digital number of intensity levels of each constituent color in the templates.

(Note: Comparison is made on individual color constituent with associated intensity level. The comparison stops when the total of individual color's number and its associated intensity level is within $\pm 5\%$ of a template. For example, say there are

three colors red, blue and green (the three basic colors) in the captured biofield image having numbers red = 05, blue = 7, green = 9; and their associated intensity levels respectively being 8, 4, 3. Then the respective total is red = 13, blue = 11, green = 12. When this image is compared with the templates then the particular template with red = $13 \pm 5\%$, blue = $11 \pm 5\%$, green = $12 \pm 5\%$ would emerge as the winner.

V CONCLUSIONS

This paper outlines recent advances in biofield applications. The use of EEG, GDV/EPI techniques, and the latest research on the creation of illusion of an invisible physical body open up a huge area of applications of the biofield which extend the known boundaries of medical applications which the neurophysicists have not imagined. The possible future applications of biofield having profound impact on societal transformation have been dealt with. The implementation of this future trend in biofield applications discussed in this paper is bound to take place if one major hurdle of identifying/detecting colors of the biofield (aura) of human beings is crossed. In the opinion of the author, crossing the final frontier of research in detecting the colors emitted by the invisible physical body, would completely revolutionize the world and its society beyond imagination.

REFERENCES

- [1] Sri Swami Sivananda, "Thought Power," A Divine Life Society Publication, Eleventh Edition 1996, WWW Edition 1999, available on line <http://www.dlshq.org/>.
- [2] Dr. Konstantin Korotko, "Energy Fields Electrophotonic Analysis in Humans and Nature", Translated from Russian by the author Edited by Berney Williams and Lutz Rabe, ISBN-13: 978-1499216264 ISBN-10: 1499216264, 2014. (Available on-line)
- [3] Beverly Rubik, "Measurement of the Human Biofield and Other Energetic Instruments", Chapter 20 of Energetics and Spirituality by Lyn Freeman, Available on-line
- [4] R.Dawkins, "he Selfish Gene", 1993, Available on-line http://s-f-walker.org.uk/pubsebooks/pdfs/Richard_Dawkins_The_Selfish_Gene.pdf
- [5] E. Bauer, "Theoretical Biology",1935, Available on-line http://uqu.edu.sa/files2/tiny_mce/plugins/filemanager/files/4300270/3.pdf, Chapter 3, Second and Third Law of Thermodynamics in open systems
- [6] A G Gurchich, "Die mitogenetische strahlung, ihre physikalische-chemischen grundlagen und ihre anwendung in biologie und medizin", Jena, Germany, 1959, Veb G Fisher.
- [7] Prof Hans Peter Duerr, "What is Life? Scientific Approaches and Philosophical Position" Available on line <http://www.worldscientific.com/worldscibooks/10.1142/4803>
- [8] Chiang Lee H, Wah Khong P, Ghista D, "Bioenergy based medical diagnostic application based on gas discharge visualization", Conf Proc IEEE Eng Med Biol Soc 2:1533, 2005.
- [9] Cohen S, Popp F A, "Biophoton emission of the human body", J Photochem Photobiol B, Biol 40:187, 1997.
- [10] Cohen S, Popp F A: Biophoton emission of the human body, Indian J Exp Biol 41(5):440, 2003.
- [11] Eduard P.A. VAN WIJK," Anatomic Characterization of Human Ultra-Weak Photon Emission in Practitioners of Transcendental Meditation™ and Control Subjects", The Journal of Alternative and Complementary Medicine, Volume 12, Number 1, 2006, pp. 31–38
- [12] KG Korotkov, P Matravers, DV Orlov, BO Williams, "Application of Electrophoton Capture (EPC) Analysis Based on Gas Discharge Visualization (GDV) Technique in Medicine: A Systematic Review", J Altern Complement Med. 16(1), 2010, pp 13-25.
- [13] CW Leadbeater, Annie Besant, "Thought Forms", [Project Gutenberg](#) Release #16269.
- [14] Tom J Chalko, "Kirlian effect - the principle, tricks, technology and the truth", Available on-line <http://kirlianresearch.com/>
- [15] John Smythies, "Space, Time and Consciousness", Journal of Consciousness Studies, 10, No. 3, 2003, pp. 47–56.
- [16] CW Broad, https://en.wikipedia.org/wiki/C._D._Broad
- [17] HH Price, https://en.wikipedia.org/wiki/H._H._Price
- [18] Andrei Linde, https://www.google.co.in/?gfe_rd=cr&ei=H-g6VtieNaTv8wfNyIroCg&gws_rd=ssl#q=Andrei+Linde%2C+Physicist+
- [19] KG Korotkov et al, " Application of Electrophoton Capture (EPC) Analysis Based on Gas Discharge Visualization (GDV) Technique in Medicine: A Systematic Review. J Altern Complement Med. 16(1): 2010, pp 13-25.
- [20] K Korotkov. (Ed.). [Measuring Energy Fields: State of the Art. EPI Bioelectrography series. Vol. I. Backbone Publishing Co. Fair Lawn, USA, 2004. 270 p.](#)
- [21] E. Jakovleva, K. G. Korotkov, "Electrophotonic Analysis in Medicine" GDV eBooks available on line, <http://www.korotkov.eu/gdv-books> .
- [22] F.A. Popp, K H Li, GuQ, eds: "Recent advances in biophoton research and its applications, Singapore and New York", 1992, World Scientific Publishing
- [23] Talavane Krishna, "The Vaastu Workbook: Using the subtle energies of the Indian Art of Placement to enhance health, prosperity, and happiness in your home", Destiny Books, One Park Street, 05767,Rochester Vermont, USA
- [24] Beverly Rubik, "The Biofield Hypothesis: Its Biophysical Basis and Role in Medicine", The Journal of Alternative and Complementary Medicine, vol. 8, # 7, 2002, pp-703-717
- [25] Remote control out, change TV channels with mind" Ref PTI, Times of India Newspaper, June 23, 2015.
- [26] Scientist controls colleague's hand in first human brain-to-brain interface (<http://www.cnet.com/news/scientist-controls-colleagues-hand-in-first-human-brain-to-brain-interface/>)
- [27] Detecting EMF Fields in Humans for Surveillance (http://www.bibliotecapleyades.net/scalar_tech/esp_scalar_tech12.htm).

- [28] J. Ammon-Wexler, "Could the Mysterious Pineal Gland be the Third Eye?", Available on line BuildMindPower.com.
- [29] Wied, "Hormonal influences on motivation, learning, memory and psychosis", In D. T. Krieger and J. C. Hughes (Eds.); Neuroendocrinology, Sunderland, MA. Sinauer Associates, 1980.
- [30] H. Benson, J. B. Kotch, and K. D. Crassweller, "Historical and Clinical Considerations of the relaxation responses", Am Sci; Vol 65: 1977; 441-500
- [31] M. A. Tanner et al, "The effects of transcendental program on mindfulness", JOURNAL OF CLINICAL PSYCHOLOGY, Vol. 65(6), 574--589 (2009) & 2009 Wiley Periodicals, Inc. Published online in Wiley InterScience (www.interscience.wiley.com). DOI: 10.1002/jclp.20544.
- [32] C.K. Peng et al, "Heart rate dynamics during three forms of meditation," International Journal of Cardiology 95 (2004) 19 – 27 Elsevier publication.
- [33] P. A. Balaji, S. R. Verne, and S. S. Ali, "Physiological Effects of Yogic Practices and Transcendental Meditation in Health and Disease", N Am J Med Sci. 2012 Oct; 4(10): 442–448.
- [34] "EMI Shielding Theory", available on line www.parker.com/chomerics
- .