

## SUMMARY OF "THE NINE DISCOURSES ON WISDOM STUDY"

### (Theory on Life for a Natural Language program)

For more than two decades Mr. Chu Bangfu, assisted by his right hand Michelle Shen Hong Lien, has been working on a Natural Language System that will make a computer system think and respond to language input like a human. In his book "The Nine Discourses on Wisdom"<sup>1</sup> Chu presents the "Wisdom theory" which is at the base of this system.

In very brief: the theory asserts that the universe is full of energy which, through the action of a unique type of force from pressure of the environing energy, is continuously transforming into higher forms of energy, from particle energy to consciousness energy. Humans are also the result of this transformation and their further ascent to higher levels of evolution will depend on how they succeed to control the energies built up in their "core-self".

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### I --- SPECIAL GOAL OF THE WISDOM STUDY:

One of the very unique aspects of the proposed artificial intelligence system is the declared intention of the author that it be beneficial to mankind, and that it can achieve this goal because the system will contain in its very kernel elements that will help humans control their "ego".

In our modern times, the exaltation and adulation of the individuality is the greatest crisis of humanity.

This is a fundamentally mistaken behavior, but not because of some moral or religious principle: the reason is that this ego-centrism is just not in line with the trend of a natural law observed in the universe which provides for an interchange of energies between all the players to arrive to higher efficiency, for all and for the *Entirety*<sup>2</sup>.

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<sup>1</sup> The **purpose of this summary** is to give some basic ideas of the Wisdom Theory for those who cannot fluently read Chinese. For those who can, they can read the new edition of the "Nine Discourses of Wisdom Study", available in print or download from the website of the author: <http://www.cbflabs.com>. The summary is extracted from a partial translation by Walter Van Patten of an earlier edition of the "Nine discourses of Wisdom study". It also includes some extracts of the book: "Engineering the Genes of Chinese characters" by Chu Bangfu.

<sup>2</sup> *Entirety*: this notion is akin with terms like: the Absolute, the Totality, the One, versus partial reality, the relative. It can be better comprehended after the student has been working in a concrete manner on the "control of his/her ego", which is the root of relative, limited thinking. *Entirety* implies that it encompasses everything. But also one can see that the family is more *entire* than the individual, the *nation* than the family, *humanity* than the nation.

This "self-centered" behavior is source of fear and of all sorts of problems not only for the Entirety –because of the imbalance of energies so created and prolonged - but directly for that individual also. In fact, the greater the good for the Entirety, the best for the individual. When the "small ego" takes a distance from itself and approaches the "large ego", then the individual returns to the Entirety, the structure becomes almost zero, and "man and heaven become one".

If humans are selfish, self-centered ... it is by ignorance.

Therefore, a comprehensive Natural Language program<sup>3</sup> should take this fact into consideration and engage in informing and educating the people on the calamities brought by an "ego" that exceeds its natural function. Only then will people have the knowledge<sup>4</sup> to understand how to solve problems.

## **II---- UNIFIED FORCE THEORY TO EXPLAIN THE UNIVERSE:**

### **1) There is only one fundamental unifying principle that pervades the entire universe.**

Thinkers of all times have tried to determine what exactly is such principle, the "motor of the universe". Once this principle is defined, it makes it possible to explain all other processes.

To remain in modern times, the most famous explanation was the "universal force of attraction" by Newton. But nobody has answered the question of the origin of this force, and the Newton theories are not followed at present.

Einstein theory of "the four dimensions of time and space continuum" did not made reference to the "universal attractive force"; his theory is based on the notion of "curved space". But ... can we understand the concept of "curved space"?

Then, the Copenhagen School proclaimed the "uncertainty principle". As there is an impossibility for the human observer to really see what is really happening in experiments because the tools used to observe change the object being observed, the certitudes of Science became much less clear cut than when the image symbolizing the explanation of the universe was "an electron rotating around a nucleus". The present symbol of Science, the quark of quantum physics (which is driven not by one single

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<sup>3</sup> As it is a computer robotic device, it can be made many and can be easily spread to bring education everywhere wanted. However, one must not be too optimistic about the assimilation of wisdom by societies which, especially in our modern times, are launched on a self-centered hedonistic race.

<sup>4</sup> We must note that this is not only an abstract understanding (or book knowledge): the individual must renovate him/her-self, from the individual to the macro position, so that this knowledge becomes effective and does not remain virtual.

force, but by four forces –the universal gravity force, the electro-magnetic force, the strong force and the weak force-) is a much less clear and stable picture.

In modern times physics, there does not seem to be a generally accepted unified theory in spite of scientists' attempts to try to explain things with the concept of Energy. In this shaky state of affairs, new thinking appeared necessary to find a unifying force.

## 2) The energy-pressure-effect force:

Assumptions: the universe is full of energy. The energy will continuously and freely expand and exert a pressure effect on its surroundings. The waves created will mutually interfere, interweave and the pressure will eventually create particles. Energy will further exert a pressure-effect force on particles, and this force can explain all the types of motion. Under more continuous pressure effect from the energy of the universe, particles will agglomerate to form atoms and molecules that will make the different kinds of "matter". That will be the beginning of the evolution. The force that is behind these transformations is the force of *the pressure of the environing<sup>5</sup> energy*.

The most adequate name for it could be: "**the environing-energy-pressure-effect force**". As this "pressure effect" is the basic and prime force effect of energy, we can simplify the name to: "**energy-effect force**", or "**energy-effect**".

Whatever name is given to it, this is the force that is the "**motor of the universe**"<sup>6</sup>. All known phenomena in the universe are the result of energy transformation and this transformation occurs under **a unique force**: the **energy-effect force**. This includes the evolution of the universe, the creation of the world of particles and atoms, life, the survival of humanity, nations and society, the individuals' situation, physiology, psychology, conscience ability, etc. Everything.

The initial energy, under the pressure effect of the surrounding energy, concentrates in a certain position on an axis and will form *positional energy*. In turn, this positional energy, under energy-effect will form a kind of structure; this structure has the characteristics of *matter*, which is in fact just another form of energy. Matter energy

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<sup>5</sup> "environing" "surrounding" might either mean "nearby" in space and time, or be understood as meaning an energy originating from within the subject but effecting transformation. Example: psychological energy, and many others.

<sup>6</sup> The Wisdom theory does not deny completely the law of universal gravity attraction of Newton, **but it inverts its terms**: for the wisdom study, energy **itself** has an effect force and is the cause of motion. It is not the particle or its mass that produces the energy for the movement. The Wisdom theory does to the Newton theory what Copernicus did to the statements that the Sun revolves around the Earth. It turns it upside down and puts it in the right position.

will become organic matter, which will also be the object of *energy-effect* pressure on the one hand and will itself, on the other hand, generate *energy-effect*. This will evolve in more complex forms of life that will diversify in a great number of energy forms (physiological energy, psychological energy, thought energy, spiritual energy, social energies, etc.), all of them producing and receiving themselves *energy-effect* pressure.

Examples:

- Under the influence of the *energy-effect*, particles and anti-particles in the energy space can disappear without a trace or become particles with mass. In the same way, for humans, under the changes of events, through the influence of the *energy effect* under the form consciousness or other forms, can be changed to non-existent, or can become a "psychological burden", with a "heavy mass".
- Human societies are a web of pressure forces exercising energy-effect on each other, unceasingly generating conflicts and solving them as a result of pressures and counter-pressures of all sorts. In terms of energy, the ability of a government to control a social group is equivalent to the power of the nucleus of an atom to "keep together" the structural energy of the molecule. When the structural energy is stabilized, the functions of the molecule and the atom, as well as that of the society, can operate normally. But if the structural energy is damaged or the group's governing force disappears, --as a result of energy-effects of different forms— then will ensue and the break-apart of the structure of the molecules-atoms (disintegration) and the society breakdown (reelections, revolution, anarchy, etc.). The differences between molecule and the social group is only an appearance: at play are different forms of the **same** basic energy-effect. (Aspiring politicians should study physics: they will then understand quite some aspects of human nature!).

**Conclusion:** the pressure of the environing energy, called energy-effect, is the cause of all transformations in the universe.

### **3) Direction of evolution: towards Higher Efficiency of Energy.**

At this stage, the question is whether or not there is a direction, a purpose to all the transformations taking place in the universe?

The answer is clear: the general purpose is to transform the *simple initial energy*, which has a low efficiency and *does not know itself*, into highest efficiency energy,

Consciousness -energy<sup>7</sup>, energy which knows itself. (Example: a particle can combine with other particles to make atoms, molecules and a piece of matter, over a few million years. Its efficiency is "low grade". While a human being, with some knowledge-energy, could manipulate nations, in a flash. Energy resulting from knowledge is "high grade").

The direction of energy transformation (from low to high grade) is visible everywhere since the beginning of times and attested by the evolution of mankind: from Particle elements and organic matter to humans in control of knowledge and Saints in control of their *self*.

Therefore, being aware enough (knowledgeable or somehow inspired) to understand the proper place and limited role of the "ego-center", and wise enough to keep it under some form of control, is, for humans, the single task that makes them real humans. Achieving this objective will be very instrumental in progressing, through the next thousands years, towards the final goal of the Unity of all.

The Wisdom Natural Language System device is precisely meant to contribute to this Natural movement of energy transformation.

Indeed, the device will react like *a human-without-ego*. On the other hand, it will liberate humans from "survival and ancillary tasks", giving them more time to participate to the real liberation of their potential<sup>8</sup>.

### III. THE TOOLS FOR UNDERSTANDING:

The section I above presents what is the main task for humans -getting one with the Entirety after control of the self- and section II shows in what environment this task will take place: a unified universe of energy driven transformations towards higher level of efficiency.

We now have to see what are the main tools the Wisdom study uses to analyze this extremely complex reality and arrive to the comprehension of the universe process.

The three most important tools are: the notion of **concepts**, the **law of Limits**, and the **Hierarchy system of classification**.

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<sup>7</sup> Note that above level of Consciousness energy –which is based on the rational knowledge and control of our physio-psychological mechanisms and of our ego, there is the level of **spiritual energy**, which is based entirely on faith and can have the strongest energy effect of all. See below the classification of various level of energy.

<sup>8</sup> Unfortunately, it might well be that the value of this wisdom, like the many other calls for any type of wisdom, be very much ignored by humanity.

## 1) Concepts:

The assumption here is that human thought is built on concepts and a good understanding of concepts (their formation, their interrelations and functioning, their selection and classification in a meaning structure) will give the keys for an explanation of human behavior and for its replication in an Natural Language system.

There are many types of concepts and many manners to classify them. At this stage we can introduce two categories which cast some light on the formation of concepts and their nature or attributes.

### a) Concepts originating from experiencing:

We can say that the first concepts were formed from experience of the environment. The sequence for the formation of concepts is:

The many stimuli from the environment are captured by our five senses and sent as information to the brain that processes this mass of experiences by dividing it in "*workable units*", i.e.: the **concepts**, and by interconnecting them through the network of memory in order to have them ready to use when need for finding solutions in changes occurring in the surrounding environment.

The **concepts are not** a full reproduction of experiences; they are a type of symbols, an abstraction that represent a **portion** only of the experiences.

For example: the word "city" is a concept that evokes immediately the image of a place, with a collection buildings, streets and a population. (The full representation of the experiences of Cities would be much more complex). But that is the only data needed to understand (and therefore be able to act and react) about cities in general. Concepts cannot be "complete". They are limited. It is their weakness ... because they represent a poor image of the reality; but it is also their strength ... because they can be easily manipulated for thinking.

The purpose of concepts is to be used for solving problems and for communication with other beings. They have been developed in the human mind through thousands of years of experiences. As different beings receive very different stimuli and live very different experiences, communication by exchanging "total experiences" would be impossible. But concepts, which are *approximation only* of much more complex experiences, render communication possible. Therefore **they are the best elements**<sup>9</sup> to work with in an Natural Language program which needs to deal with workable "basic elements" of thought and behavior rather than with un-manageable impressionistic representations of the total reality.

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<sup>9</sup> As opposed to "words" or "sentences" which will not be linked to a basic, elemental meaning.

**b) Concept resulting from thinking:**

A second type of concepts are built themselves on previous concepts -resulting from external stimuli elaboration and on to additional mind (or emotional) processing –not originating from stimuli. This is the case for the extremely important concepts of time/space, cause/effect, structure/function.

The complex brain structure developed in humans under the pressure created by the need to survive (*energy-effect*), gave them the faculty to differentiate the functions of experiencing (perceiving) from that of reacting (behavior). This new faculty hindered their speed of reaction (making them more vulnerable than animals) but created habits of suspicion and observation that in turn created the understanding **of time and space**.

The acquisition of the notion of time and space is crucial for facilitating further important advances in the thinking field. Indeed, with these two tools of *time* concept and *space* concept, the thinking process can make fast advances in the thought domain of abstraction and even reach some fundamental rules of universe's evolution: **cause and effect; structure and function**.

The application of these concepts in the time/space continuum has made humans capable to analyze the past, observe the present, and predict or plan the future.

When, in addition, the usage of these concepts is done together with a correct judgment of what is really beneficial or harmful to the individual, i.e.: with a proper usage of the ego-center, it can result in the realization of higher efficiency and lead to achieve the superior goal of wisdom knowledge: the return of the individual to the Entirety.

To give a more complete view of the concepts used in the Wisdom Natural language we include at the end of this summary a general table of classification of all concepts used in the prototype program. Here below we include a chart that permits to have a glimpse of how concepts are analyzed and used in wisdom artificial intelligence representation of reality:

The table below analyzes the information obtain by *vision* on very different types of objects using visual concepts.

VISUAL CONCEPTS ↓		OBJECTS OBSERVED ↓				
		Medicine bottle ↓	Table ↓	Ground ↓	Cloud ↓	Sky ↓
Environment Elements considered in vision	POSITION ⇒	Indoors	Indoors	Below standing	Outdoors	Outdoors
	DISTANCE ⇒	N (a variable)	N	Near	Far	Infinite
	ANGLE OF VISION ⇒	N	N	Below	Upwards	Above
	SIZE ⇒	N	N	Infinite	Extremely large	Infinite
Visual recognition (Basic conceptual Elements perceived by vision)	LIGHT QUALITY ⇒	Transparent	Reflects light	Reflect light	Reflect light	Transparent
	INTERNAL ⇒	Sealed	Closed	None	None	None
	STRUCTURE ⇒	Whole	Assembly	Whole	Concrete	Abstract
	COMPONENTS ⇒	Lid	See category description	None	None	None
	SHAPE ⇒	Column category	Over lap	Not fixed	Fixed	None
	COLOR ⇒	Not fixed	Arbitrary	Earth	White	Blue
	CHARACTERISTICS ⇒	Solid, hard	Solid, sturdy	Hard	Light	None
Under-standing resulting from vision	MATERIALS ⇒	Glass	Build material	Earth	Gas	None
	VALUE ⇒	Low	Tool	No value	No value	No value
	CIRCUMSTANCES ⇒	Safe	Stable	Stable	Changing	Changing
	CONTROL ⇒	Hand held	Hand	None	None	None
	CHANGES ⇒	Easily broken	Flammable	Shake	Deformed	Occur
	FUNCTION ⇒	Container	Tool	Infinite	Rain water	Infinite
	BENEFIT/HARM ⇒	benefit	benefit	Benefit	Benefit/harm	None

**Conclusion:** concepts are the basic elements of thinking and the result of our interfacing with the environment and reflection on the environment. They are our basic tools for knowledge and communication, but they have their limitations.



## 2) Principle of the Limits of Knowledge.

On road to understand everything, there is an important fact that must be reminded: the limitations of our capability to perceive the reality and therefore to explain it all.

We have seen above in section 2 the positioning of this principle *in experimental physics* by the Copenhagen School under the name of **Uncertainty principle**: there are limits to what the observer can observe, no matter how perfect are the instruments of observation. Therefore, there is a limit to what can be known from experience or prove by experience.

This was demonstrated in *experimental physics*. Similarly, as we use concepts in the thinking process, our comprehension is also limited. We have indeed seen above that concept were only partial representations of the reality. If the limit of experimental science is the photon, then concepts are the limits of the human intellect.

There are limits to knowledge, and not only in the domain of high energy physics, but in all domains. We have to recognize this human limitation and adapt in the following manner:

- If an object cannot be known because it is beyond the methods of knowledge, it should be divided into parts that can be analyzed and explained by a coherent group of concepts with a common semantic denominator.
- The obstacle created by the law of limits should be turned into a positive tool: when uncertainty is encountered, it should be used as the sign that defines the limit where an object of observation must be mentally "divided" in order to arrive at a consistent explanation of each one of its parts. The object in its totality can be understood after analysis of its part and of the intervals between.

In order make this compartmental analysis remain as close as possible of the objective reality in spite our observation limits, the Wisdom study has devised an analytical methodology named the "hierarchical approach".

## 3) The Hierarchy Method:

In the hierarchical analysis method, we must first have a general idea of a subject under investigation to get a general understanding of it. Then the limits of its partition "levels" can be defined inside such subject.

The levels are determined in a way that all phenomena in a particular level can be explained coherently with one group of concepts having a similar meaning. Then these phenomena can be said to pertain to a specific dimension. When phenomena differ in a way that they can no more be explained by the same type of concepts, then these

phenomena must be analyzed separately. They belong to another level, another dimension.

For example: atom and molecule phenomena will be studied with one group of concepts, and that will form a level, and it will be the dimension of "Matter". But when matter becomes 'organic matter', the concepts used previously have reached their limit. Another set of concept is needed that can explain the phenomena belonging to the "life" dimension, which is different in nature from the phenomena of matter.

This classification is called "hierarchical" because in this succession of levels, the elements (and concepts representing these elements) in the most "basic" level will all be comprised in the subsequent higher level, while such higher level will include some critical elements (and representative concepts) that are not part of the first basic level, and so on and so forth for higher and higher levels. (*the thread*, through all the levels, will be: the transformation of energy towards more efficiency, into "higher grade" energy).

Any subject of study can be analyzed with a hierarchical structure method. As long as the general idea of the subject is well understood and the criteria for the definitions of the levels are correct, it will yield proper results. These results can be used for Natural Language applications. Indeed, among other advantages, it reduces as much as possible the distance between the subjective experience and the objective reality – which distance is one of the main hurdles that hinders artificial intelligence applications.

Because the hierarchical methodology is one of the main cross-point of all the concepts and ideas of the wisdom study, it is useful to present here a more detailed instance of a hierarchical structure.

The example chosen below has the additional advantage to show how the wisdom theory views evolution, up to the ascent of man.

## Hierarchy Structure Chart of Human Phenomenon, in Evolution.

(to read from bottom to top)

<u>LEVEL</u>	TIME SPAN	DIMENSION	MAIN COMMON CHARACTERISTIC	ENERGY-EFFECT FORCE FORM	Level's INTERFACE
? ↑ 9	?	SPIRIT DOMAIN	Enlightened	Faith Force	? –Fusion-(Union with Entirety) ?
↑ 8	Thousands of years ago	CONCIOUSNESS	Knowledge Use	Correct Ability, Intellect Force	Ideas
↑ 7	millions of years ago	LEARNING	Concepts Comprehension	Benefit/Harm selection Force	Formation of Ego Center
↑ 6	600 million years ago	EXPERIENCE	Organized Perception, Memory	Electro-chemical Effect Force	Conceptual Symbols
↑ 5	1.3 billion years ago	SENSORY	Mechanical Reaction	Stimulus Effect Force	Functional Nerve-Structure
↑ 4	3 billion years ago	LIFE	Organic Manifestation	Chemical Effect, Survival Force	Cells, Organizations Organs
↑ 3	4.6 billion years ago	MATTER	Space/Time manifestation	Physics, Chemistry Effect	Amino-acid, Proteins
↑ 2	20 billion years ago	PARTICLE	Combine and Decay	Strong/Weak Effect Force	Stable atoms & molecules
↑ 1	?	ENERGY	Combination of transformations	Basic Energy-Effect Force	Vector force forms energy packets
↑ 0	?	ORIGIN	?	?	?

## Explanations of the contents of each level, and passage to the next level:

Note that the separation between levels here imply a quantum leap change in the nature of the phenomena between two levels: from unstable particles to matter; from matter to life; from mechanical perception of exterior stimuli to actual integration of sensation in a web of experiences, etc. Therefore, the passage from one level to another, the "interval" must also be carefully studied and understood.

### LEVEL 0: Original Dimension:

Unknown; it is perhaps one of the limit of the humanity's knowledge. (We assume its attribute is **energy**, in an unknown form).

### LEVEL 1: Energy Dimension:

The energy within this system will continuously and freely expand and the waves created will mutually interfere resulting in various combinations and accumulations. When an accumulation reaches a "quantum" energy level, then a particle will form that produces "mass" and that possesses "positional energy". This will start stabilizing energy and will *evolves into the "Particle dimension"*.

### LEVEL 2: Particle Dimension:

The Particle dimension, where twelve kinds of basic particles<sup>10</sup> are at play, is also in a state of continuous combination and transformation. The effect of particles' energy is equivalent to a kind of "**field**" and the *strong effect force* keeps the quarks together. Under the "energy-effect" pressure force they combine to become atoms and molecules which remain stable as long as the energy-effect force is sufficiently great, *and this evolves into the "Matter dimension"*.

### LEVEL 3: Matter Dimension

The foundation of the Material Level is the stabilization of the particle in time and space. This permanence of the structure is the main attribute of matter. In this dimension, changes to matter structure is caused by the **external** causes: either by a physical force form or by chemical force from the environment. It results in the formation of all types of combinations of atoms and molecules.

The molecular structure of matter gradually grew in complexity and evolved into a kind of compound material that can store energy **within its own structure**. This kind of

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<sup>10</sup> Six are kinds of quarks and the six other are leptons.

phenomena allows transformation of matter to proceed stably within the same "inner" space without need of external force: and for this reason it exceeds the limits of the matter level and *evolves into the "Life dimension"*.

#### **LEVEL 4: Life Dimension**

The most primitive compound of organic matter is amino-acid which evolved into larger protein molecules. Within the structure of these molecules, the changes of energy are reciprocally "cause and effect" and eventually create life. Life includes the effects of the growth of an organism, birth and death, etc.

An organic structure uses the oxidation effect to burn organic matter of the structure to produce heat energy. It gives motion power to the entity, allowing it to go in search of food energy which in turn will restore the parts the structure use for creating motion energy. In the process, if the total energy of the structural entity does not decrease, it can engage in duplication and continue to survive, and to get more complex: when **nerve cells** are created under the need to react to the environment, *the dimension "Sensory Level" has been reached*.

#### **LEVEL 5: Sensory Dimension**

The main attribute of the Sensory dimension is the **mechanical reaction** to stimulus allowed by the perception capability of the **nerve cells**. Organism that can have the appropriate reactions to stimuli (escape or adapt) will survive the challenges of the environment.

In the early period of the development of life, microorganisms started to sense the characteristics of light and this marked the beginning of the "vision-sense". The characteristics of pressure, temperature, acidity and base were the beginning of the body-senses; the sensation of the sound wave formed the auditory sense. The impressions created by these stimuli were also "registered" in the sensory cortex, and this allowed to *evolve into the Experience dimension*.

#### **LEVEL 6: Experience Dimension**

Vision, auditory, taste, olfactory - body senses, as well as other senses separated into individual sensory organs and each one generated a permanent nerve path that was connected with the cortex of the brain complex neuron-network, in which the sensations were engraved and became memory. The organism reacted in the same manner to the same type of stimuli, and made distinctions between what was beneficial to its survival and what was harmful, and experiences of stimuli were organized according to this main criteria. The formation of similar reactions to similar stimuli resulted in the acquisition of *habits*, and the "management" of Experiences *evolved in the Learning capability*.

## LEVEL 7: Learning dimension

In the process of forming habits and reacting to stimuli, the subject will be learning, mainly in two directions:

- a) learning of new sensations and reactions that were not encountered before by means of a kind of analogical imitation of the motor organs of what the sensor organs have perceived: (For example the frequency of sound transmitted to the ear –sensory organ--can create harmony with the vocal chord --motor organ--).
- b) the more and more complex analysis and organization of experiences in the memory into groups of more and more **abstract** concepts. While experiences are global and all encompassing, and therefore difficult to use, concepts are simple outlines only of those experiences. They can be more easily used to further the process of thinking. Experiences could be represented by a string of concepts. Comparisons and differentiations could then occur.

When differentiation between "the entity of experience" (a human) and the "experiential process" (feeling record) could be grasped, the *self* (ego) found a kind of independent existence (the ego) as the core of the entity : then *the "Consciousness Level" was produced.*

## LEVEL 8: Consciousness Dimension:

At the present stage of development of humanity, consciousness realizes the highest potential for effective energy transformation. Only consciousness energy-effect can control energy changes.

Many humans arrive to a certain degree of consciousness. Their consciousness is based on rational observation and they can arrive to a new understanding of the stimuli of the environment and of their experiences. But it is very difficult to be able to fully exploit consciousness efficiency: this needs a focused attention, concentration, and systematic training.

If this effort leads is carried consistently and achieves a control of the self-ego, it will in turn lead to a liberation from the pressure of physiological or psychological energy-effect and allow a **radically different understanding of reality**. The energy-effect of Consciousness is precisely the right assessment of what is really beneficial or detrimental to the self-ego. When this assessment is correctly done, all sorts of energy-knots will be dissolved and problems solved. We will start to be masters in our house, instead of slaves of our biological and emotional confused and anarchic apparent needs. This will liberate an immense amount of energy and it is the real mark of the ascent of human nature.

Simultaneously, this process has pushed humans to seek for even greater levels of achievement in other fields than immediate physical reward. Once humans have

become conscious of the distinction between the "self" and "non-self" they have asked: what was the meaning of the universe and purpose of life and what happened after death?

When humans pursue the limits of "knowledge", it produces ideas of infinite amounts, boundless space and possibilities, and infinite thoughts. To deal with this extended framework of thought, another level of knowledge is needed: *the Spiritual Dimension*.

#### **LEVEL 9: Spiritual Dimension**

In this domain: the attribute is **enlightenment**. Its effect force relies entirely on faith.

In humans, the force of faith can be large to the extent of infinite and small to the extent of non-existence. Much depends on the individual's state of evolution. The phenomena of this dimension are those attached to the energy-effect resulting from a fusion-melting of the self-ego and a predominance of the Entirety.

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#### **IV. Wisdom Natural Language Programming status:**

Chinese language, which initially was deemed computer incompatible till the CangJie Input Method (invented by Chu Bangfu in 1980) made possible the usage of the standard keyboard to type characters, is in fact very amenable for artificial intelligence programs. Indeed, Chinese characters are unique in that their roots carry a basic semantic element which can be identified relatively easily, so providing an almost "ready to use"<sup>11</sup> data base of character-concepts.

The program will prove that an *understanding* computer can be achieved with management of these basic Chinese character elements.

The understanding level of the program should be that of a normal human. There will be three benchmarks: reaction speed, memory capacity, and level of understanding. The faster the reaction time the better; the smaller the memory the better; and the higher the understanding level ... the better.

The depth/shalowness or the increase/decrease in understanding has definite boundaries: the program assumption is a high school understanding level and deals with 7000 meaningful characters (we have not considered place names, mountain

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<sup>11</sup> The proper understanding, selection and classification of the Chinese characters to be used as concepts ... needed several years of research and the selection is still being fine tuned.

names or proper names). Four criteria are applied to determine if the program has understanding:

- judgment's point of view position,
- definition of pursued goal,
- "Entity/Application",
- "Cause/Effect".

For the data structure, we have employed a 32 bit "Cang Jie Internal Code" and four keys for "[Entity] / [Application]" and " [Cause] / [Effect]", that each take 8 bits to define. Therefore, each character uses 64 bits (or 8 bytes) and needs 56K of memory. Add to that an 8K index and it makes a total of 64 K per character..

In 1986 when Chu Bangfu started to design the program, he had a PC-AT and used Assembly programming language. Therefore he could only use 64K segments to process data. For the "[Entity] / [Application]" and " [Cause] / [Effect]" relationships, he designed a four segment Common Sense Database. A Knowledge Database is provided by an external network. In simulation tests, the results were quite favorable. The only thing missing was a language module, that is being written by Michelle Shen HongLien.

**CONCLUSION:** obviously, the Wisdom study includes several more tools of analysis and understanding than the "concepts" and "the hierarchical approach" mentioned in this very brief summary.

In the near future, will be soon available a more complete translation of the first edition of the "Nine Discourses on Wisdom Study" on Chu Bangfu websites.. A Glossary for the special terminology used will also be available soon.



GENERAL TABLE OF CONCEPTS CLASSIFICATION

0 客觀 OBJECTIVE DOMAIN	00 抽象 Abstract domain	000 定義 Definitions	符號 <b>Symbols</b>	[Sorting] [Rank] [Numerals] [Measure of time] [Position] [Tolerance] [Measure utensils] [Measure terms]
			語法 <b>Grammar</b>	[Pronoun] [to state] [to correct] [auxiliary] [language] [exclamation] [conjunction] [prepositions]
			根源 <b>Roots</b>	[Origin's root] [Reason's root] [feelings' cause] [to plant's root] [politics' root] [Residence cause] [Knowledge cause]
			現象 <b>Appearance</b>	[Scenery] [characteristic] [substance] [ <b>Outside</b> ] (*) [traces] shapes] [water appearance] [air appearance]
		001 應用 Application	規範 <b>Specifications</b>	[A group] [society] [to organize] [administrative matters] [profession] [a post] [territory] [traditional institutions]
			人際 <b>Human Relations</b>	[Relations] [Family] [name] [outstanding behavior] [status] [class] [religion] [feudal]
			資訊 <b>Information</b>	[ethics] [message] [individual matters] [to distinguish] [documents] [literature] [art] [symbol]
			意義 <b>Meaning</b>	[matter] [mind] [belief] [experience] [money] [disease] [destiny] [fate]
	01 具象 Concrete	010 本存 Natural	本體 <b>Substance</b>	[Elements] [topography] [hydrosphere] [water] [characteristics] [form and structure] [capability] [life]
			肢體 <b>Limbs</b>	[parts location] [structure] [upper] [limbs] [lower limbs] [sense organs] [an organ] [body fluids] [body surface]
			植物 <b>Plants</b>	[food provisions] [vegetables] [fruits] [trunk] [plants] for beauty] [special make] [[build material] [pharmaceutical]
			動物 <b>Animals</b>	[to breed] [birds] [four-footed] [water animals] [reptiles] [flying insects] [reproduction] [legendary traditions]
		011 人造 Artificial	食衣 <b>Food/clothing</b>	[foodstuffs] [meat food] [condiments] [eating style] [materials for clothing] [clothes] [place parts garments]
			住行 <b>Living/transport</b>	[environment] [Private residence] [Public] [Construction parts] [Passage way] [vehicles] [components] [after death]
			起居 <b>Residence</b>	[eating utensils] [kitchen tools] [containing utensil] [fill utensil] [utensils] [household utensil] [decoration] [toys]
			工作 <b>Work</b>	[writing materials] [musical instruments] [tools] [agricultural] [weaponry] [engine] [materials] [waste]]
1 主觀 SUBJECTIVE DOMAIN	10 認識 Under- standing	100 感知 Perception	刺激 <b>Stimulus</b>	[light] [color] [shape] appearance [substance condition] [properties] [liquid condition] [power condition]
			感覺 <b>Feeling</b>	[food perception] [vision] [hearing] [dermal] [feelings of the body] [inside] [consciousness] meaning [awareness]
			心緒 <b>Moods</b>	[feelings] [mind feelings] [affection] [happy feel] [anxiety [sadness] [evil feeling] [feeling about things]
			認識 <b>Understanding</b>	[Body properties] [talent] [inborn characteristics] [fear] [habitual behavior] [Virtuous] [evil temper]
		101 狀態 Status	化態 <b>Transformation</b>	[time] [condition] [space] [ability] [force] [containing] [power state] [recognition] [growth]
			動態 <b>Dynamic</b>	[Movement] [to shift] [to wave] [fluid circulation] [shape] [pull movement] [force moving] [rapid movement]
			界態 <b>Interface</b>	[join] [touch] [reciprocal] [to connect] [entanglement] [immersion] [Positioning] [measuring]
			知態 <b>Knowledge</b>	[awareness of time] [appearance] [condition] [benefit] [movement] [meaning] [value] [life]
	11 行爲 Behavior	110 個體 Individual	官能 <b>Organs ability</b>	[food and drink] [mouth] nose] [facial expression] [to shout] [to look at] [physiology] [psychology] [ethics]
			體能 <b>Physical</b>	[body stillness] [body moving] [posture] [interaction] [foot] [a direction] [movement] [style] [make movement]
			技能 <b>Skills</b>	[barehanded] [contact] [hand-control] [pointed] [friendly] [friendly substance] [change condition] [change position]
			智能 <b>Intelligence</b>	[observation] [to recognize] [thought] [to judge] [to understand] [intention] [self-control] [writing]
		111 社會 Society	生活 <b>Living</b>	[Cooking] [body affairs] [home affairs] [deal with people] [education] [agriculture animals] [techniques] [skills]
			溝通 <b>Communication</b>	[To notify] [interaction] [ceremony] [concern] [to express] [unbosoming oneself] [to denounce] [swindle]
			行事 <b>Schedule</b>	[Volition] [to control] [deal with human] being] [to submit oneself] [manage affairs] [safeguard] [transfer] [business]
			控制 <b>Control</b>	[opposing] [command] [to reform] [to limit] [corporal [punishment] [military] [to prey on] [massacre]

Note: On the last column, each group contains eight end of classification concepts represented by a single Chinese character.  
Example: (\*)[**OUTSIDE**] = spot; line; surface; body; color; prestige color; facial expression; rainbow; secondary rainbow; morning glow.