triple**C** cognition
communication
co-operation

The informational essence, classification and nature of different grade

Wu Kun   chinese   Wu Tian qi   english translate

(Xi'an Jiaotong University College of Humanities and Social Science, Shaanxi, Xi'an 710049, phone code, 0086-029-82626736   wukun@mail.xjtu.edu.cn)

Abstract   *information is a marks indirect existential philosophical category, which is self-display of the material (direct existence) existence way and status. Information including in-itself, for-itself, regenerated three basic forms, each of the basic form also consists of two basic forms. Information of these three basic forms has reached unity of the essence of itself completion in the social information. Information with nature of three different grade, informational nature of primary grade is a directly existential level objective shows, that is a level objective indirect existence; informational nature of secondary grade is directly existential multi-levels objective shows, that is a multi-level objective indirect existence; informational nature of third grade is a nature of subjective relationship of human understanding give to information.*

Key words   information, essence, form, nature

The problem about the informational essence has been information science, system science, and even a major basic theoretical issue in philosophy.

Research of information ontology, first takes the information regard as a existence, is not just takes it regard as a way, by this new concept of ontology leads to is a new world outlook, that is a new existential picture of world. Thus, in order to explore the informational essence, it is necessary first examined to existence included the scope of the field.

1. Division of the existence field

1.1. Shortcomings of the traditional division way in the existential field

"Existence" of broad sense is "possess", it is a general designation of all things and phenomenon in world. Philosophy of all forms questioning on the origin of world, the essence, no not began from thinking of scope of composition to the existential field. This has produced variety correlation theory of on the existential fields is divided.

The means of division for the existential area, traditional philosophy has a basic tenet: The entire existential world that can be divided into of matter (mass and energy) and spirit the two main areas: the existence =matter + spirit. If in accordance with the definition of modern materialism, takes matter regard as objective reality, then this can also draw a corollary: the objective reality = objective existence= matter.

However, tenets of the entire the field of existence by the composition the matter and spirit the two main aspects, and inference of the objective reality = objective existence in the world of information has been revealed today that it is difficult to set up.

1.2. A logical deduction of the field of existence divided

If we assume that: objective = P; real = Q, then the objective the antithesis "subjective" is-P (read "non-P"); the real antithesis "not real" is -Q (read "Non-Q ").

Now we build a conjunction expression style of pairwise combination in these four propositions, we can obtain the following six logical formula:

P ∧ Q; P ∧ -Q; -P ∧ Q; -P ∧ -Q; P ∧ -P; Q ∧ -Q

Remove the latter two "no law of contradiction " and "never fake formula" of violations formal logic, we will be the remaining four formula that correspond to the literal meaning as listed below:

P ∧ Q = objective reality

P ∧ -Q = the objective unreally

-P ∧ Q = subjective really

-P ∧ -Q = subjective unreally

These four significance in the universe world whether are indeed within the meaning of it? Let us be analyzed separately:

"Objective reality" is there is indeed referring, contemporary materialists say that it is matter.

"Objective is not really" whether there is indeed referring to it? According to the previously mentioned the division of way of traditional philosophy to the areas of existence, "objective is not really" could not exist, because "objective reality = objective existence", so, as long as "objective" thing is "real", can not be "not real." However, as we have already pointed out, such a traditional tenet have not through strict scientific or logical argument, is difficult to set up an idea of apriority. We note that Lenin had expressed such an idea: all have similar characteristics of reflection among all things. The essence of reflection will be the content and features of something to reflect out in another matter, this mapping the content of thing, features obviously cannot be equated with something itself, but also cannot be equated with other objects of the mapping these contents and characteristic. We will never say the water moon and the moon are the same thing. The moon is the objective, is the real moon, it is a directly takes the way of body to exist the moon; water moon is also objective, and it is beyond human consciousness,

independent of man's will, but the water moon it not have real character, it is only a shadow of real moon, while the water of mapping or load this shadow of the moon but is not real moon itself, though, the water itself is real water, but not has real the month in water. "Fish for the moon in the water" The reason absurd, lies in takes the moon in the water as real moon. "Moon in water, flower in mirror" similar "month" or "flower" in the phenomena, is both objective and not real. In fact, "the moon in water, flower in mirror" is just a very popular and become apparent example. Related to more profound examples we can casual cite a lot of. For example, conditions between summer and winter of many years of condensed trees that experienced in the annual ring of tree and other related relational content, historical relationship of the vital germ line by DNA encoded and relational contents of the general procedure of individual development; the content of condensed geology evolutional historical relationship in stratigraphic structure; condensed the content and so on of the universe's origin and evolution to this day of the correlation between in the existing universe's structure state, both have objective not real nature. Thus we find an existential field "objective is not really". "Objective is not really" It is refers to that title of to response (category reflects) content between objective thing. The "trace" of various natural relationship of the general mapping, construction in the objective world, that is a specific coding structure of storages all reaction the contents the between matter and things. It is in this particular sense; we say "objective is not really "and existence way of "objective reality" of signs the material world with the difference of essence.

"Subjective reality" refers to what is it? Materialistic theory of reflection deems that a subjective thing in the final analysis is a reflection of the subject to the object. Since it is a reflection, then reflect the contents that is not be reflected object itself, it also can not be real, this also is similar our

analysis to contents of common existential class reflect phenomenon among general things. So, "subjective reality" is actually nothing and phenomena that can refer to the.

"Subjective is not really" apparently refers to the consciousness spiritual phenomena like. They are subject to the object's subjective response is subjective, not teal. According to the above analysis, we can conclusion: all the "existence" in the whole universe (the world, nature) could put under objective reality, objective is not reality, and subjective is not really like three major areas.

Objective existential scope is broader than objective reality (matter). The material category did not include the entire world beyond spirit, there is a field between the material and spiritual of tradition science and philosophy have not been paying adequate attention to the "objective is not really".

Spirit (subjective existence) and "objective is not really" have a common "unrealistic" essence. The entire existential field can be divided from existence of objective and subjective, but also can be really and not to divide it.

Because only the objective reality is real, so the real category and the material category both possess be fully consistent with the connotation and extension. If we do analysis from real and not real correlation starting, then we are likely to get more specific provision on the material category and its outside area of world.

1.3. Re-segmentation of existential field

we say that sky has a moon; there is a moon in water. The moon is real; the water the moon is unreal. The existence of water moon because of the existence of the moon, the former is the latter's "shadow." In this way, we established a correspondence

correlation between the real moon and unreal moon. From this corresponding correlation starting, we can completely takes moon is called the direct existential moon but unreal the moon is called the indirect existential moon. In this way, we have decided takes really and direct existence as the concept of the same level that do unreal and indirect existence as concept of the same level. From the indirect existence point of view, indirect existence is a direct existential reaction (broad sense), from the direct existence point of view, indirect existence is a direct existential display. Consciousness is a reflection, outside consciousness there is a direct existential object, and there is a replication and knowledge on this object in consciousness. Therefore, the subjective existence in the final analysis is a reflected direct existential indirect existence.

Direct existence is a specific provision that we to material category, indirectly existence you can use concept of "information" to the provisions in modern science (on this point will be detailed on the next section).

Based on the above discussion, we may list the following four new expression:

Matter = objective reality = reality = direct existence;

Unreal = objective unreality + subjective unreality (spirit) = indirect existence = information;

Objective unreality = objective indirect existence= objective information;

Subjective unreality= subjective indirect existence =subjective information

According to these four expressions, we can make the following a partition diagram of existential field (Figure 1):
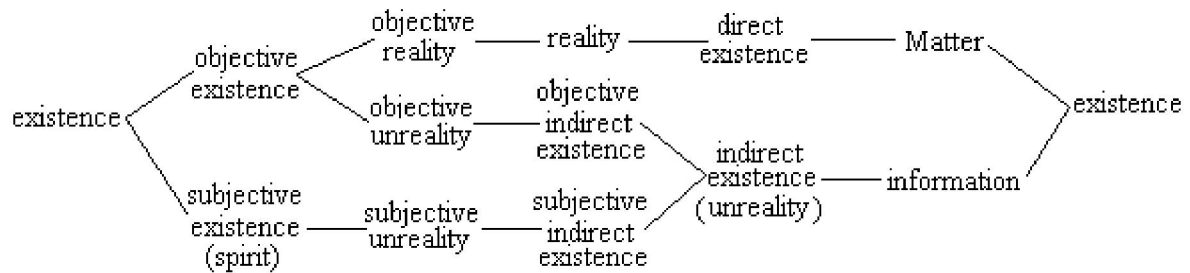
Figure 1: partition diagram of the existential field

From "Figure 1", we can clearly see the information is how force the existential field of material and spiritual has been divided up give it give up a site, and information is how provisions spiritual phenomenon in the essential sense in its own.

2. The defining of informational essence

We say that the world and the all the things in world that are directly and indirectly existential unity, which involves the specific provisions informational problems world on the indirect existence, while in the core of these problems is to explore the informational essence.

Analysis the existing number of explanations can be distinguished at least provisions of three different levels to informational concept: First, the level of understanding of people's everyday experience; second, the level of practical information science; third, philosophical level.

2.1. The informational concept of everyday experience to understand

In people's daily lives, in general the data file, the information refers to a the content of that with new content, news of new knowledge, news, intelligence, data, images, password, and language, writing, and so on that reveal, or reflect.

If will the "message" in definition above as a broad- sense understanding, will informational carriers of all other forms are considered "news", then the true meaning definition above is: information is new content in the information. Clearly, this understanding is the message whether give the recipient to bring new content and meaning has been provided.

This kind understanding of empirical everyday on the informational concept clearly has comparative nature and functional nature. Such provisions can not as the essential interpret what is information. In addition, although this understanding is interlinked with on the informational concept within certain functional definition the meaning in practical information science, but it is a big difference with to definition of concept of information in philosophy.

2.2. The informational concept in practical information science

In the general practical information science, about the definition of the information is multifarious. Although the present various definitions is also not been uniform and universally recognized, but there are two versions of the most influential, and other more or less definitions by these two versions can be obtained by deduction. Here were these two arguments to be introduced and evaluated.

2.2.1. Information is the uncertainty that has eliminated

This is based on the founder of communication information theory, Shannon's theory made a informational provision. The implication is that

communication before, recipient of news there is uncertainty understands the contents to send news, after received news, recipient of news the original part or all of the uncertainty would be eliminated. Therefore, the information is eliminated the uncertainty. Here, eliminated the uncertainty is an amount of relative degree of accident, it was also said that "information is no qualitative difference between the two times."

The same news to different receivers will play different roles; eliminated the amount of uncertainty is also different. The more new knowledge to eliminate the greater the uncertainty, the greater the informational amount also; do not a message with the new knowledge can not eliminate any uncertainty, the informational amount is 0.

From the above discussion can clearly see, "Information is eliminated uncertainty," this definition, is actually a functionality definition from the information to the role of informational recipient point of view to a relative informational amount that did.

2.2.2. The information is the negative entropy

Wiener, founder of cybernetics has focused on the meaning of negative entropy in formation carried out to explain the. In physics (related with the second law of thermodynamics), entropy that is the concept of level of uncertainty or confusion of indicates system. The elimination of uncertainty would mean a reduction of entropy, so the information can be called negative entropy. Thus also derived and other phrases "information is the signs of degree of organization of the system (or the orderly nature, the order nature) ".

From the above two definition on informational essence, we can see, practical information theory to the information go on provide with relativity, functionality and quantization characteristics. Although such provisions in the scope of practical information theory has great practical value, but such provisions are very difficult reveals out the information that possess its essence and significance of universality character.

2.3. The informational concept in philosophy

To overcome the narrow-mindedness in practical information theory to the informational concept that provided, many scientists and philosophers have tried be summarize to the informational essence from a philosophical point of view.

For more philosophical interpretation on the informational essential issue just stay in with the existing interpretation of practical information science or philosophy has a simple analogy between the categories. For example, takes information interpreted as " dimension of variation", "the amount of variation," etc., and this is a simple analogy with practical information theory for information go on statistical metric mode feature; and takes the information interpreted as "space-time series", "state", sense of " organization", "degree of order" of, etc., this is takes in information analogy with its distribution characteristics of carrier objects. In another example, takes information interpreted as: "information is a material general property"; "Information is style of material existence "; "Information is mental entity's characteristics "; "Information is neither physical nor spiritual third state;" "Information is the special fusion matter of material composition and spiritual components "; "Information is the alienation of movement "; "Information belongs to the material interaction category " and so on, it is takes the information go on a simple analogy with existing definition of traditional philosophical concepts.

In discussion of informational essential issue, both is no way out no matter what take a simple analogy with the practical information scientific explain, or to take with the traditional philosophical category meaning of the practice of a simple analogy. I have argued that in informational essential issue should take some sort of attitude of philosophical criticism. That this criticism is twofold: one side is criticism of philosophy on the specific science, this criticism is to eliminate the limitations of the specific science give the interpretation of information

that bring about of all sorts of narrow-mindedness, thereby making grasp philosophy on the information beyond out from a specific scientific in the threshold; the other side, criticism of philosophy on itself, this criticism is to overcome the limitations traditional of philosophical old there are framework and theory on the informational essence to explain, thereby making grasp philosophy on the information surpass out from in the threshold of the traditional philosophical old there are systems. Here, it is carried out a double criticism and surpass.

From informational existence way point of view, the information is not a specific direct material existential form; the information is constituted the existence value of their own in the characterization, performance, alienation, show things and the sense of its characteristics. Information is an indirect existence form of things features of it that performance.

Material interaction, would inevitably lead certain change of internal structure of role the two sides, a state of motion and nature, "trace" of this change is acceptance and storage on the role thing information. In this process, both sides is same time the source of information (Output own information), and is also a recipient of information (input coming information from the other side), it is also a carrier (to be entered other side information to save up that takes "traces" of some changed of their own, also is borne up). Because of the universality of material interaction, but also because of matter and time both no beginning, any material system in universe is impossible still the initial state of the original in a it has not happened the interaction between with other matter, so any object will have been self-evolved become informosome with a specific structure and the state condensation all sorts of information. It is the material this nature of informosome, the provisions any object is a direct existence and indirect existential unity, this unity its own also has the source of information at the same time, carrier and the triple property of information. As a result, we can see that informational existential scope: information and matter coexist.

Materialists have to admit that the informational content from the summary the meaning completely can be summed up as material their own the existence way and status.

Objects due to internal and external the objective interaction, constantly to external radiation and reflection particle, so that will information of itself existence way and status from this with a specific performance and the particle field of distribution to send out. This reveals the informational root of produced and reflects material existence way and state that consists in the material world itself, consists in the material themselves movement. It is material this kind itself shows the property, only to make this world as a knowable world.

According to the above analysis, we can at least mark some basic levels on informational concepts:

First, information is material existence way, is the material attribute. This is the provision on the informational concept in the philosophical materialistic ontological sense of sum up. But this can not reveal in information difference with other material existence way and material attribute. So, it just stops at this expression of level, but also impossible to reveal the information that possess unique nature.

Second, information is displayed material existence way, the material attribute of status. This is the information content and its existence way the provision on the informational concept. This has revealed the informational unique nature, but it remains in phenomenon description of informational performance.

Third, information is a attribute of material their own show itself. This provision, though still remains in the description on the informational phenomenon, but it has taken into the momentum of information generated.

Fourth, information is an indirect existential marks. This provision has been described from informational phenomena to the informational abstract briefly.

The above-mentioned divided of four levels of informational concept, for us from philosophical point of view give information a definition of essence to provide the path. This definition can be accurately formulation as: information is marked an indirect existential philosophical category, it is a self-display of material (direct existence) existence way and status.

The expression of the two clauses before and after of this definition, essentially is the same meaning. "Showing" the things what must be "indirect existence", and the thing of "indirect existence", they must be "showing" with the. However, comparison with the two sentences, the former word cannot but be more abstract, and then a sentence can be seen as concretize of content of pre-sentence. Therefore, the two clauses of this definition can separate be used as provided of the informational essence.

Indirect existence summed up is simply three areas: one is reactions on things their own history (including have happened the relationship between with it things); The second is the various provisions on their own nature, these provisions is a direct existential process in the moment their show, but in its time had not been shown only on a real indirect existence; three is various possibilities about self-change and development. This is future the three indirect existence about past of things, present situation. These three indirect existence condensations in a direct existential thing of possess specific structure and state. any material direct existential structure and state all is the indirect existence that provisions by

it that condensation, the same reason can also be say that any material structure and state both mapping and regulations on the self-past, present, future information. So, any object is direct and indirect existential unities, which are both a material body and an informosome.

Consciousness as a subjective phenomenon has presented, itself is a show with, and so it is itself a form of informational activities (Advanced form). In addition, as information of symbol can also display information, which constitutes a multiple-electrode indirect existence or multiple-electrode a phenomenon of information shows, that is information of information. This is why we get to know the basis of information itself. It is precisely in the sense "indirect existence" and "self-display", the information obtained their own existential significance and value of at level of ontological existence theory, but also obtained existential meaning and value of independence of mutual difference with subject of cognition and object at level of philosophical knowledge theory.

3. Informational classification

Based on philosophical provided we on informational essence, you can draw the following an informational classification chart (Figure 2).
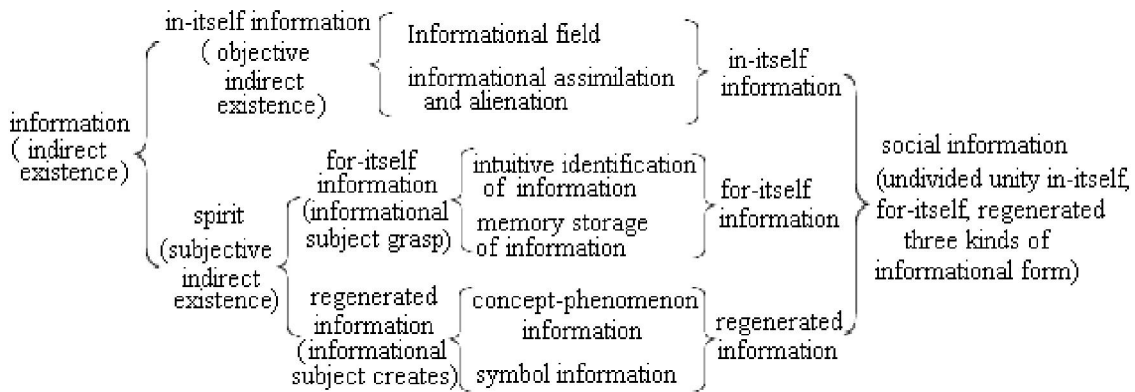
Figure 2: the Philosophical Classification of information

Following pairs of "Figure 2" to make a few simple accounts:

First, in-itself information is an objective indirect existential marks, is original form of information has not been knowledge by subject. Informational field, informational assimilation and alienation are information itself existential two basic forms. Field was originally a field of object itself particles or fluctuations (matter) of radiation or reflective, but any material field is to its particular structure and status displays peculiarity of matter (source of information) their own of emerged this field, in this defined sense, the field has been defined as informational field. Here, the field has dual existential significance and value; itself is a direct existence and indirect existential unity. It must point out that the "field" concept in the information field theory has an interpretation of broad sensize, it is not just limited to the micro-level of quantum field, at the macroscopic, and the "field particles" can also take a more macroscopic form, such as: elements, air masses, and even some specific objects. These "field particles" is just as opposed to generate these "particles" in terms of objects. When the information field acts on other matter (recipient of information), it will some information of source of information of that contain in the field passed to the recipient of information. This is the process of informational assimilation (for recipient of information) and

alienation (for source of information). In the interaction, objects of involved the interaction is always both the assimilation outside information and to outsiders alienated own information. Objects through this informational the assimilation and alienation will itself universal informosomize. Due to the existing any object is follow-up to generate and continuous generated the object in universal interaction between historical and realistic, so any object is both a material body and the informosom. Here, as the field, any object also has a dual existential significance and value, are also direct and indirect existential the unity. The in-itself informational activities is the most fundamental form of information activities, it is foundation of all other information activities emerge and expand.

Second, for-itself information is subjective indirect existential the primary form is in-itself the informational intuitive grasp of subject. It includes the information is identification (perceived) and the storage of memories (felt memory) that two kinds of basic forms. For-itself information has been entered the animal's scope of psychological activity, which is effects of some kind of information "within the subjective to present" based on the in-itself information activities emerged. Obviously, for-itself information activities must of takes somehow have the perception, memory capacity that informational control systems as the carrier.

Third, regenerated information is a subjective indirect existential advanced form it is the informational subject creates. Its basic form is concept-phenomenon information and symbol information. Concept-phenomenon information is thinking in images to create a new image, symbolic information is a symbols characterization on for-itself information and concept phenomenon information. The human abstract thinking is an advanced analysis and integrated process for symbolic information goes on logic deduction, processing and transformation. Regenerated informational activities must takes somehow have the informational control systems of thinking ability as a carrier. Precisely the essence of the thinking lies in that it is an informational subjective creative activity in the interior of subject of thinking through the informational processing operations, the run steps that achieved. This informational subjective creative activity is the advanced form of information activities based on for-itself informational processing and transformation. We usually refer to the spirit, in fact, it is precisely informational the form of for-itself and regenerated, is a subjective indirect existence.

Fourth, social information is not an independent informational form; it is informational form of three forms specific organic unitary of emerged a comprehensive in relationships among in-itself, for-itself, regenerated three kinds of information on the basic pattern. There are three social informational world: First is a the world of that part of in-itself information of people that recognize and transform (form of in-self informosome to exist); second is people that recognized the for-self, the regenerated information itself activities; Third is alienation storage of regeneration information (who creational the cultural world). The so-called social information is head name of that part of information world of that has been human beings to understand and grasp, and human created. The nature of social information is understudied and transformed the human subject set undivided unity in-itself, for-itself,

regenerated three kinds of informational form in the social information. Dotted line shows in the "Figure 1.2", only a portion in-itself, for-itself, the regenerated information to achieve an organic unity, thus it enter social informational the scope.

Such a range of informational shape and form do not have eternal existential significance and value. This is also such variety of material shape and form does not have the eternal existential significance and value the same. Specifically, in-self informational activities exist simultaneously with material activities, and it has objectivity, universality and existential eternal nature; for-self informational activities constitute the main way of psychological activity in the general animal kingdom; generally believed that regenerated information is human that unique activities of consciousness, and in some higher animals, there are only some the regeneration informational activities of which can be called "embryonic state"; social information refers to the spiritual and cultural activities their own of human social subject.

Just as the natural material form has undergone evolutionary course of various stages, natural informational form has also experienced evolutionary course of different stages. Nature information in constant " Nature" of their own activities, the experience a long took place, evolutionary process of in-itself, for-itself, regeneration, in the social information has reached unity of essence of itself completion, this is the dialectics of informational form movement.

There is a material world and three informational world: the material world (exists in mode of matter body of the substance and the field), in-self informational world (exists in mode of objective informosome), for-self and regenerated informational world (exists in mode of subjective mental activity), and cultural informational world (exist in mode of humankind creational the regenerated informational alienation storage). Clearly, exist the complex and interwoven interaction among these four the world (Figure 3).

triple **C** cognition
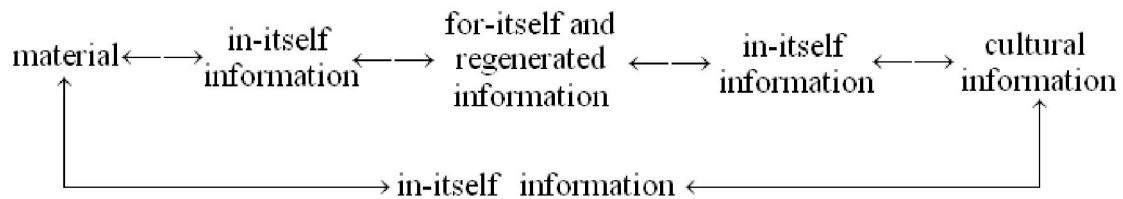communication
co-operation

Figure 3: complex and synthetically picture of the world
consists of a material world and the three information world

Apparently, this a double and multi-dimensional complex synthetically picture of world of including a material world and three messages world, compared with the traditional picture of world takes material and spiritual two minutes principles that build, compared with Popper who submitted picture of world of three world the cannot but more have charm of complexity.

4. Informational the nature

Informational in-itself, for-itself, regenerated movement of three-state, in the social information has reached unity of completion of essence, making the informational nature show out in the information their own relationships between multi-level, and get a different grade concrete, rich provisions.

As the universal informosomize of object, so that emerged the information field from these informosome that all be divorced from the original, the original historic of information generated. In this sense, all the information fields are only the phenomenon of shown during in informational multi-level campaign. The meaning of movement product of such multi-level of information field, we can not but make in the information field that presented information have an extremely rich and complex content. If we will these rich, complex contents sub-levels, then we will clearly see information that has the nature of different grades.

Any object, first is a direct existential object of foremost of have the internal structure and state, so the object that

generated the information field, must first takes this object their own material direct existence as it display the contents of the first level. However, any objects they have done informosomize, so that when an object itself structure and the state shown in the information field, the condensation the information in the structure and state also will be displayed along out. These condensed informational displays in objects that than the object direct existential display more has indirect nature. Therefore, this part of the information is content of second level of displayed in the information field. If we say that direct existence of displayed object in the information field is one-level indirect existence of object, then the information of condensed in the source of information that shown in the information field that is multi-level indirect existence of objects. Because condensed information itself in object of source of information is already that indirect existential form of objects. We take these two informational content of different levels of that shown in the information field, defined as the information generally that have nature of two different grades.

Informational these two nature of different grades, also it was provided only in in-itself informational the scope. If we are involved in social informational the field, we will see that informational nature of another a grade.

Let's analyze this one event: apples maturity in a tree. For the people who know nothing at all about Apple's knowledge, he just saw the apple's shape, color; for those who know Apple, he will be able to determine through Apple's form and color

apple's degree of maturity, to absorb nutrition, the process of growth and development of photosynthesis whether well……; In addition, there may be such a person, before that, his a friend wrote had given him agreed on: "When the apples ripe time, and I'll call you." At this time, he faced up to this ripe apple trees, he is pleased to realize that:" I want to meet a guest from afar. "The first two of these three contents is in fact the content of nature of informational two different grades of we that provided the above, which this third content, with the first two are different in content, which is people's subjective teleonomy that given to the informational a new content. This new content is the third level of informational content, we take it provides as an informational nature of third grade.

Informational nature of first grade is directly existential one level objective shown of, which is one level objective indirect existence. General, we direct perceived is exactly this informational content of that shows nature of first-grade. Informational nature of first-grade is independent of man's will, and its contents in comparison with aspect of we that perceive be rich, much broader. We that perceive are only the part of nature of informational first-grade, but not all. This perception part can achieve some degree is restricted by our ability of perception.

Informational nature of secondary grade is the directly existential multiple objective shown, which is a multiple objective indirect existence. This part of the informational content can not our intuitive perceive be grasped simple, to grasp this part of information, it must be some kind of similar work of the decoding, deciphering, and excavation. Here, the informational nature of first grade of is seen as an encoding sign the contents of nature of mapping secondary-grade. the richness and depth of deciphering and excavation of people on this aspect the information content, directly dependent on the subject has been building up within the first the situation of structure of understanding, that source information

material itself, the experience level of condensed information. This leads inevitably result in nature of secondary-grade of information relative to a different man of cognition, in the scope of nature of identical-grade must also have difference of comparative understanding.

When the dynamic role of consciousness, property inspection on information in their mutual relations, was not take objective for criterion but take subjective for requirement, the information is with a significance of nature of third-grade. And nature of informational third grade with the help of by aid of nature of informational first grade, but it has nothing to do with content itself of that reflect nature of informational first grade. nature of informational first-grade is only as a code, a medium (intermediate) on transmission of subjective information. Such as: language, writing, and its nature of first grade are its sound or shape, and its nature of third grade is human mutual providing give its meaning. If in language or writing be ungrammatical, then you will only receive it's the sound or shape, and can not understand its meaning. Nature of informational third-grade is human knowledge to give information a new nature of creative subjective relationship of, it makes human possible will be outside the information general to abstract, signifying in people's understanding, and hence into the general interaction and relationships. This nature of third grade that revealed the informational artificially creational the relationship, once by people's labor practice alienation out is the world's creation. Human essence, the dynamic action nature of consciousness has emerged in the creation of the world.

The provisions from the informational three natures, we can see: informational nature of first-grade determined by the source of information material direct existence itself; nature of informational secondary grade determined by the informational aspects of that assimilation in the source of information matter; informational nature of third grade

determined by the informational recipient's purpose provision.

Informational nature of first and secondary-grade is informational nature of objective in-itself, the nature of third grade is informational nature of subjective characterization; informational nature of first-grade is the informational protoplasm, nature of second and third grade is informational nature of systems (objective natural relations system. or system of the relationship between subjective and objective); nature of informational first-grade is the informational nature of source, the nature of second and third grade is the nature of informational derived. Informational nature of second and third grade in the final analysis is the object (or subject) assimilation informational results of content of nature of first-grads, and they must pass some the nature of informational first grads can to express themselves.

About the Author:

Wu Kun (1953 -), male, Hebei Laiyuan people, Xi'an Jiaotong University, School of Humanities and Social Sciences Professor, Doctoral Advisor. Is mainly engaged in information philosophy, natural philosophy, complexity theory and other areas of research.