

Evaporation of Information in Data Transition Process

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Abstract—From a long time ago, information has played a vital role in different aspects of human being life and constantly has flowed in human's various aspects of life and activities. By progressing of science, profound changes for the meaning of information have accomplished so that it has reached to its modern meaning and significance despite of all relative inadequacies and deficiencies. Since human beings have stepped for transmission and recording of his thoughts unconsciously the meaning of information appeared. First stages of humankind life, meaning of information had been limited to the kind of its carrier, in case inscriptions, papyrus and codex, themselves had been inferred as information and this is the same meaning "solid information" "in this domain which has been set with appearances of print industry and possibility prompt duplication of becoming liquid – that is acceptance of each carrier to the amount of that information. At this age this is middle age, information has become liquid and from the book to other electronic information sources, considering to the kind of information carrier, has take other various modes . At this age, organization, dissemination and maintenance of information have been confronted with its own specific challenges. In other words, existing information on an inscription, printed document and or any other type of information carrier could be saved in other carrier simultaneously. This is the same meaning that has been attributed to "liquid information" "in the essay. At the close future, however, by appearance of many kinds of computer networks and information systems, this information becomes like gas and would expand in every place without needing to any specific carrier. At this period, one of the characteristics of information concept is instantaneous potential of expansion and instance. Present essay has settled to studying and clarifying of above modes and considering this question "if this information would be convinced to be condensation and change to its old modes?" and what processes on information is covered from production to distribution.

Keywords: *information carrier, solid information, liquid information, gas information*

Information: Concept and Formation

Information presents in all political, social and economical actions. A group of physicists know information a kind of energy and sometimes use word or term of

information in return of energy. Because definite amount of the energy is changed to definite amount of work, information is not only an abstract concept but it is including facts, pictures, histories and names. Information is like a hidden energy in warhead of a missile. With such material and energy, information of subject is a collection of physics laws that expresses how information should be controlled, become doubled and be downloaded and be deleted, whole things in the world should follow information laws because anything that has formed in the world has a collection of information inside of itself. If we know that how much energy one particle has, we could have information of the whole system. Electrons could be in a various positions.

The concept of information has been faced with many changes and evolutions comparing past times and this matter has a close relation with development of electronic technology in the world. Information becomes more useful and abundant after transition of the production process and disseminate by many kinds of information carriers such as book, magazine, etc. A part of an inscription to a manuscript and a discourse or speech could be cited at specific reports or TV or radio programs. This part of information in each stage will be in different positions and will have various utilizations (2). Information has no final and designation and regularly is in relocation and circulation redundancy. It is just non-current when it occupies space in the framed files or books in the shelves.

At each stage of usage information has a relational mode and it is a raw material until it is benefited and analyzed. Produced goods can be counted as frozen information, because goods keep raw information inside of itself.

Lack of information causes the information not be conveyed from one source to another one and consequently no action takes place. Information is useful and profitable when it is not old and so-called burnt and we could make change and transformation in recipient's subjective structure. It should be considered that this information has instructional and operational utilization and so forth. In each of these aspects

information has its own special function, for instance, using information at operating management system. Then, in every system, information is counted as a basic element and component.

Nowadays, the word of information is used in our daily works prevalently. If information is not accessible, we could face with problem at performing any work. Although the concept of information consisting of the words that in current century have derived from compounds and different uses that seem completely ambiguous, but there are many definitions and constantly it is one of the words that has been discussed disputably. Meanwhile, lack of specific border between these two definitions and information are counted the factors of this ambiguity of information concept.

Metaphor thinking versus concept of information

Information is the infrastructure of the whole activities which flows in different scientific fields and also among the public. Information includes recorded, written or verbal messages and makes the works done. Human being, by using information, organize his own and other people's activities and with performing this work will have a role in the collection of knowledge and control of human activity. Information has presence in all political, social and economical actions. Modern information society is a complicated and industrial society. Information requirements of the public are also complicated. In this society, every individual has an important role in conveying the information. In an information environment, we are under the influence of an atmosphere that information comes into and we idiomatically are bombing with the information. Of course, we do not absorb all of the information. We take a part of that information that is appropriate to our information requirements and conceptual construction. Facing numerous information that we see, we select. Information that should be conveyed must become methodical. It means that the information must be recorded, duplicated, analyzed and saved in a place that could be retrieved. The process of issuing means inscribing and writing of information and this matter should reach to the user by way of a channel and should be comprehensible to him. Information, itself is disintegrative and it is not declining. It is likely to know information as an independent phenomenon. Instead of difference attribution assuming to information, we could evaluate various approaches.

Neshat (2006) believed that information is neither density nor energy (3). Heilprin (1995) also believes that: information is the third basic dimensions of material. Whereas information in spite of density and energy has not dimension, it is just for this reason that its temperament is relational. This relational feature is a fundamental feature of the organization that is also multifaceted(1). The origin of information has been constantly important. Information results from disinformation, that is, information could reproduce repeatedly whatever it produces. Information has a nature of duplication and regularly it multiplies and duplicates itself and we should take into notice that development of information is a complicated development. Information is substructure of all activities that flows in all different scientific fields and also among the public. Therefore,

information is not analyzable and is not declining (2). Information as a basic material of Quantum knowledge has a basic role in human being's thought structure. Information is diffusible at ontological level in a vast extension. This potential also includes human information that is issued with various frequencies. For instance, empirical thought is diffusible at the universe. If another person is in the state of thought and interchanges information unconsciously, these waves encounter with each other at the universe level and consequently, it causes Telepathy. At this process, transferring of information optical packing namely Quant is responsible for conveying information. Neshat (2006) discusses that at the theory of Quantum of information, sine loco has a special location. It seems that particles at regulated distances have potential to have an effect on each other, but results from some researches have shown that they are far from each other. Information and awareness transform instantly because of Quantum disorganization. Sometimes because of the speed of the transfer, it seems that all of the universe knowledge has focused in one point and it transfer from that place to another place. This matter shows union and pluralism of information and dynamics (3).

Information is a unified entity as Quantum phenomenon. Like wave / particle, information is a two-role phenomenon. That is, there are both potential information and also actual information. When a book publishes, as a part of external fact, it is overfilled with potential information, it will not change to potential information until it is referred and it is studied. We take a part of available information at a book, absolutely that part adapts with our information requirement and could not state absolutely and definitely is for the same part for another reader is as much effective as us. A book is simply a presentation of the reality and answers just a part of our question.

Potential information, in general, is like wave and identifiable and reception and weighting up. Although, when we refer to information as an observer, we make it in static mode and adapt it with our information goal. It means that fluidity of potential information at the static mode is receivable. This matter means destruction, confusion and chaos. Thus, the totality of the potential information throws into confusion. In every process of receiving information, in fact, something collapses at the origin and reconstructs at the destination. We take information from an origin and use it in any place we want. This action, that is, destruction and reconstruction, means becoming renewed of science and change of Paradigm. Thus, we could consider information as the language of science.

When we study a text from a source, we think of ourselves as its addressee. Simultaneously, a reader or other readers assume that the text fulfils only their information requirements. Meanwhile it was very likely that the writer has never anticipated us as reader principally. Although we impel messages towards ourselves, in fact we have supposed a place for information and message. However, it is likely that information is far in terms of place and time. Information of the past, present and future; and information that are resulted from here and there could not be calculated as appropriate ascription.

When we study a book, there is relation between us and the item which we study. Even a relation, also should be existed in citations and the items that are in the book or essay. A documentary frame defines that a document where and how will be used. Disordering

at information in the collections, databases and network are definitely stronger. Active information simply results from our observation and confrontation. These abstractions do not change the fact of potential information, but it is manifestation of entity and entity of independency of information.

Solid Information: Essence and Management

Appearance of writing art, though pictorially was an approach for keeping of observable cases and events and this made a possibility to those works to be shared with other people, without necessary need to two persons to experience and be in a place instantly. Samples of such writings are wall paintings on the cave walls in France or plates made of clay in Middle East or crockery of American native people (Indians) that of the whole manuscripts are related to Middle Ages. These writings have made share information and in fact themselves are also calculated a kind of information, while they are also transferor of their information.

Despite of whole above mentioned developments, information has always a close dependence on its carrier and this important matter is one of the cases that have adapted the sobriquet "solid" to this era's information. In fact, this sobriquet is because of mode information carriers that had no flexibility and only have been used for keeping and transferring of information. This era's information has only found in these special kinds of carriers and itself is one of the hard factors for accessing to the information, then this matter is also one of the other cases that make the sobriquet solid to information of the primitive civilization been concrete. Though, Anthony Smith in his book "Geopolitics of Information" attributes "solid information" to the information that has been objectified. For instance, the word of glasses is a concept with its own information load but he called the shape of entity glasses as a solid shape of information (4).

Liquid Information: Essence and Management

By using of print industry, human being has increased the potential of information participation for publishing information and while the degree of reliance to the memory has been decreased.

With appearance of print industry, besides of above cases, availability to information increased because in a short time the possibility of production more than one copy from every document provided. There was no need to manuscript any document handily and compare to previous approaches consequently. Information could be available for more people.

Meanwhile, the characteristics of changing information carrier to each other was growing and print industry became a start for changing solid information to liquid information, that is human being, by using new techniques for rapid issuing of information and keeping it, has released information from the mode that has limited to the kind of its carrier. Instantly, it is possible to observe specific information on an inscription, codex, book and etc. This concept occurs the same liquid molding to the mind.

Consequently, the invitation of print was the first step and by development of industry and technology, this way has made a lot of wonders about the concept of information.

At this classification, specifically in the favorite domain of information concept, the liquid information period is called middle

age, the previous period that information has a solid mode is called primitive age.

At above classification, information is on base of the kind of its carrier shape, while this carrier could be either a heritage from primitive human kind's inscription, codex and etc. or a result of modern human's technology (compact disks, memory cards and etc.)

At this period, information changes its frame easily and could be converted from text of a book into an electronic mode and meanwhile could assume microfiche mode. This proficiency level of information at formation is the same thing that has interpreted as liquid mode in the essay.

Evaporation of Information Concept

Modern technology has increased astonishingly the effects of information on human's life. It is predicted that, in close future, information will emerge into gas mode. It means that we will witness information will be issued at all spaces of our life, even though information carriers have had a progressing growth at Middle Ages (liquid information). At this point in time, we will talk about information carriers very little, because information in this period has a smooth and completely flowing mode.

Internet is one of the factors that stabilize the accuracy of this prediction, because with appearing and designing of its appropriate substructures, the level of need to information carrier has decreased. Other individuals access to whole of their files and documents by using of this Cyberspace, and there is no need to the carriers that they have mentioned at the middle period (such as: memory card, cool disk and etc.)

On the other hand, appearance of the phenomenon of wireless technology-that is useful for connecting all centers and information technologies invisibly- is one of the factors for expressing this idea, because the factor of the invisibility itself is one of gas properties.

Information science of modern periods should consider severe problems like management of gas-like information and clarify the method of organization and provision of such information. Finally, we could evaluate that with beginning of evaporation of information process; this concept has lost its tangibility more than ever and has become more as indivisible mode and gas. Meanwhile, emergence of this process has never been on the contrary with utilization of information carrier primitive periods

Codex and book and Middle Ages (memory card, cool disk) in such a manner that today these sources altogether help to human being perfection and the emergence of new information carriers has never been ultimate weakening factor for past carriers. It is predicted that different information carriers could become sublime together.

Is gas-like information convinced to return to solid or liquid modes? Generally, for using any kinds of information we are convinced to conquer it. Then, even the information that has become gas, after tracking and retrieving, for use, it is better to become liquid. But it seems that this work is expensive and time-consuming to all of information requirement of libraries and information centers, so it is predicted that these type centers make information accessible to applicants as gas and after precise retrieving them at a gas atmosphere, give possibility of condensation of information to their users.

Meanwhile, the concept of distillation (converting gas mode into solid mode) is not possible, because of growing rate of the construction of various information carriers, liquid-like information always are loadable at various carriers and no hardness and frigidty is visible.

The Role of Communication in the Evaporation of Information Process

Communication process is the foundation of scientific explorations at information domain. Whenever the communication dominates, transferring and flowing of information is an impossible matter. Information is upright to communication process. All of the information process, apart from any of its special aspects, definite the transferring of information physical carrier. This is communication that helps to flowing and fulfilling of the information. Information, as the result of communication, is identical completely with social environment. Since a factor should produce information, a channel transfers information and retrieve an information carrier that is compatible with its inner construction and could change it. The construction is the information that gains value beside of communication channel and transfer.

The Last Word

Without information, no balance will establish in the universe, so we should revise our view towards information and have a modern view in face of it. We could not have the same view towards density and energy for information.

Information should be considered regarding to other entities. In any system, density, energy and information are its fundamental bases. Density considers the centrality of movement in system in the relation with content. Energy is a factor that envisions system's movement in the relationship with content. Information defines the purpose of each system. Movement of library as a compiler and circulator of information are on the base of information that it has and perform this activity. Whatever that facilitates information circulation, arises policies, principles, regulations and instructions. Library's staff, by means of information that they possess and by using of their own energy perform their work and activities. With confrontation of information and density, production emerges, for instance a data on a base of the magazines or a forthcoming book. This is perfection process. At this process, perfection process is in the ways that in establishing balance of a system; balance is towards increasing information and decreasing density and energy. By using, information will not decrease and the more information is needed, the more it becomes procreative, up to date and new. Its value will be increased and finally a new knowledge will be produced.

Potential of information is further than material and density. For instance, consider a compact disk of Britannica encyclopedia. Several factors are active in preparing it. They have collected a mass of dispersed information as centralized information. Though, this information could be scattered and spread everywhere and

accessing to them be difficult. It was probably no one access to this scattered information. We should have a huge volume of material to compare it with this compact disk. Then, information is neither material nor energy, but it is a property like material and energy. Information should be discovered not be produced. Because information is in our world and our environment, the theory of information and thermodynamic rules reflect a picture of the universe that is evolving and transferring. Any event that takes place is at the result of information circulation.

Since its discovery by human being till now, information has taken many different forms. Although, actually it is not possible to give an objective format to information and visualize it but during the ages presentation of information carriers has differed and clay plates, papyrus scrolls in ancient ages has caused that information leaves written, recorded and potential users oncoming generation could use this information for fulfilling their needs. After Gutenberg revolution in printing, for many years, information was presented in the form of magazines and books. Individuals, libraries and organization that was their possessor and by using of their required content, information became fluid and placed in a cycle from producer to user. Information complications caused to appearing of new type of information that was accessible only by network systems and information bases. Gas-like information, will be available for all people without anytime and location limit and there will be no ownership distress after it. Nowadays, the matter that governs on information is accessible for the public in a short time from anywhere. The interpretation evaporation of information does not mean to eliminate it, but to enter to other cycle at a new position. In this interpretation, users will not the owner of information anymore and except accessing to information, they could engage in producing information and presenting it to other people. Evaporated information instantly reaches to a user and concurrently people may benefit from the same information. Meanwhile in the past, only one person could fulfill its needs by an information carrier. Although accessing to information has been facilitated but defection of information that could be according to user's needs is very difficult. Nowadays, it seems that the task of saving information by librarians has been ended and prior to any other activity, retrieving information and guiding the users in the vast ocean of information are important for them. In this way - accessing to evaporated information- the necessary existence of professional and skilled librarian in this period that is recalled as Cybrarian is also noticeable.

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