

Florentin Smarandache & Ștefan Vlăduțescu: Neutrosophic emergences and incidences in communication and information – Book review

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ABSTRACT

Neutrosophic emergences and incidences in communication and information, published in Germany/Saarbrücken: LAP LAMBERT Academic Publishing in 2013, is a book that constitutes a new trend, a new approach in the science of logic, philosophy, communication theory, information, an approached and exemplification that it was wanted, it was intuited, it was expected but it has no mathematical foundation, that is neutrosophy. It is a book that presents avant-garde information. It is written by two appreciated researchers and inexhaustible perpetual idea machines: Professors Florentin Smarandache and Ștefan Vlăduțescu. First of them is professor of mathematics at University of New Mexico/ USA, the second is professor of communication theory at University of Craiova/ Romania. Both of them have published a lot of books and papers in domain of philosophy, communication, sociology, psychology, mathematics and literature. Logic started in Ancient with Classical Logic of Aristotle, developed and covered by Three Valued Logic of Lukasiewicz, next ring being Fuzzy Logic of Zadeh, finally the comprehensive Neutrosophic Logic of Smarandache.

Keywords: neutrosophy; logic; communication; e-function; information; quantitative perspective; qualitative perspective

1. GENERAL ENVIRONMENT

The fundamental thesis of neutrosophy is that every idea has not only a certain degree of truth, as is generally assumed in many-valued logic contexts, but also a falsity degree and an indeterminacy degree that have to be considered independently from each other. Smarandache seems to understand such “indeterminacy” both in a subjective and an objective sense, i.e. as uncertainty as well as imprecision, vagueness, error, doubtfulness etc. Neutrosophy has laid the foundation for a whole family of new mathematical theories generalizing both their classical and fuzzy counterparts, such as neutrosophic set theory, neutrosophic probability, neutrosophic statistics and neutrosophic logic. The neutrosophic framework has already found practical applications in a variety of different fields, such as relational database systems, semantic web services, financial data set detection and new economy growth and decline analysis. Neutrosophic emergences are the unexpected occurrences of some major neutrosophic effects from the interaction of some minor qualitative elements. Emergence would be seen as a major phenomenon occurrence,

important and significant from the reaction of two or more minor unimportant, insignificant elements. On the other hand, we describe the incidence as the application of a law, of an axiom, of an idea, of a conceptual accredited construction on an unclear, indeterminate phenomenon, contradictory to the purpose of making it intelligible. The incidence is the intelligibilization procedure using the concept: basically apply a previous theoretically validated concept is practically applied. If the emergence is a variant of the cognitive bottom – up processing, the incidence is a variant of the top – down cognitive processing.

Neutrosophy had been in the emergence phase since 1995. With its certification by the scientific community, Neutrosophy has become a type of incident knowledge, i.e. applicable in different fields. Neutrosophy legitimating was achieved by developing some doctoral research, through learning theory as a way of description, explanation and forecast and implementation of neutrosophic congress and conferences.

It can be said that the emergence and incidence are specific neutrosophic concepts: the appearance-occurrence and the imposing-application apply, above all, to Neutrosophy itself. Like a good doctor, neutrosophy applies its most toxic treatments to itself. It is well-known that, in their way, the best medicines are poisons with no remedy, too: medicines are some toxins without counter medicines. There are not drugs against drugs.

So Neutrosophy makes the emergence and the incidence visible as neutrosophic events and it also holds itself in the universe of emergences and incidences.

Neutrosophy handles all neutralities. In the neutrosophic taxonometry, a class of neutralities is represented by the neutralities that, without turning into contradiction, generate qualitative leaps. The emergence is the cognitive phenomenon in which, from two or more connected neutralities, without contradiction, a change of quality or a qualitative leap result. Thinking in Hegelian terms has an axiom the idea that the qualitative change, qualitative emergences may arise from related neutral items.

The studies in this book show either how neutrosophic effects burst in different worlds of spirituality, of thought, of knowledge, of experience, or how neutrosophic elements get influence-incidence in so varied universe.

2. THE STRUCTURE AND IDEAS

The volume is structured on three chapters approaching the neutrosophy effects from theory to pragmatic fields.

Chapter 1, developed by professor Florentin Smarandache, is the visible path of Neutrosophy emergence. He presents the joints of Neutrosophy, describes neutrosophics phenomena, explains the operations of neutrosophics analytics and establish the platform for neutrosophic thinking.

Neutrosophy according to the dictionary definition is a branch of philosophy, which studies the origin, nature, and scope of neutralities, as well as their interactions with different ideational spectra. Neutrosophy considers a proposition, theory, event, idea, concept, or entity, "A" in relation to its opposite, "Anti-A" and that which is not A, "Non-A", and that which is neither "A" nor "Anti-A", denoted by "Neut-A". Neutrosophy is the basis of neutrosophic logic, neutrosophic probability, neutrosophic set, and neutrosophic statistics. (Webster's Revised Unabridged Dictionary, published 1913 by C. & G. Merri).

The fundamental Thesis: Any idea is T % true, I % indeterminate, and F % false, where T, I, F are standard or non-standard subsets included in $[0, 1]^+$.

The fundamental Theory: Every idea <A> tends to be neutralized, diminished, balanced by <Non-A> ideas (not only <Anti-A>, as Hegel asserted) – as a state of equilibrium.

Neutrosophy is the base of neutrosophic logic, a multiple value logic that generalizes the fuzzy logic, of neutrosophic set that generalize the fuzzy set, and of neutrosophic probability and neutrosophic statistics, which generalize the classical and imprecise probability and statistics respectively.

Did humanity really reach its insensitivity limit where the only reason, where sensible permanently lost his existential value? If so, that means Albert Camus is right: the only logical solution is suicide. To escape the darkness of death, the nightmares that we set ourselves in her name we have several solutions including apparent suicide, or why not the life performing optimism. Suicide is <anti-A>; to genuine optimism represented by neutrosophic <A>. If we accept the suicide or its equivalent or <anti-A> is such as if we should accept to cut off one's nose to spite one's face. So says also Brancusi, he doesn't create the beauty, he just removes unnecessary material to be easier for us to discover new beauty next to him. Similarly we define (is removed) <anti-A> for beauty and for its sense, to be visible the beauty of our existence in front of nonexistence. Of nonexistence fears any existence, even the Universe itself, maybe nonexistence in itself is not afraid of itself, or people who in their existence forget or do not know that they exist there. Similarly we define (we remove) <anti A> for the beauty and its sense, to be visible the beauty of our existence in front of the nonexistence.

Chapter 2, developed by Florentin Smarandache and Ștefan Vlăduțescu, highlights the emergence and the development of a communication-collaboration neutrosophic function of universities (any communication-collaboration includes a mandatory component of neutrality that allows entities to put something together or to create something together).

The universities are perceived as institutions that along their evolution and development in time performed and developed such features like: understanding the university being conceptual elusive understanding, university as very complex organization, university as a system (input, output, process), university as teaching-learning, research entities, university as communication, collaboration and integration functions.

In Information Age, university system is structured mainly by actions of factors like: computing, technology, rapid innovation determined “the computing power of microchips double every 18 months”, accelerate extension of the information-communication systems generating “the total bandwidth of communication systems triples every 12 months”, development and accreditation of a collaborative and disseminating academic environment applying the principle “shared knowledge”, liberalization of knowledge flows and setting the new dissemination channels, in a moment when “globalization and digitalization” are “the two most profound social and economic trends of our age”.

Professors Vlăduțescu and Smarandache through their extensive experience in academics, initiate and support the fifth function assuring: “We value and fight, for strengthening and developing the communicative-collaborative-integrative functions of the global university system. If the Digital Age brings, however, globalization and interdependence, we should not expect that they be imposed, but we should welcome them. It is good to settle all opportunities from challenging. It would be a beneficial and wondering feed-forward response. In fact, some steps towards this emerging fifth function are already taken”.

In Chapter 3, professor Ștefan Vlăduțescu explores the world of multi-field and multi-structured information. Zetetic objective is to define the coordinates of the third of the fundamental elements of the world, along with the matter and energy: information.

Ontological examination shows that concerning configuration of the information have expressed a lot of opinions. The argumentation is oriented in direction of four coordinate reference system: a coordinate, the metric is quantitative and three coordinates (semantic, structural, pragmatic) are qualitative.

Information makes order and input an organization. **Semantic** side of information includes, the transmission of knowledge horizon. Investigation of this aspect must find or even look for that tells the receiver message about existence. On **structural** coordinate, information appears as element of knowledge in relation with the structure and functioning of the world. Information, as event of gnosis practice, doesn't find the goal in itself, so that the utility is one of its essential features. The **pragmatic** quality, utility extends therefore between pleasure and achieving the goal and is manifested in making decisions and performing processes.

Concerning the novelty of information, the author asserts, "as *in any true poetry is designed a sacred action*", in any communication is projected a communication action. Each of these lives as a reality in which peace, stability and balance are turned to the essence of novelty of the world: non-original meaning we are gradually revealed, it becomes order, meaning and sense. The man introduces sense. He is, however, first a disorientation that causes a tenseness leading to the deviations. Novelty increase from a significant tension that can take different forms: dissonance, deviation, surprise, breaking, difference".

Information limits are obscure, ambiguous, uncertainty. The border that separates the world of chaos is the same. This is not because the information is itself ambiguous and insignificant, but because its limits are very large, difficult to fix. Against appearances, however, the information sets limits of the world. "*I am a human being I consider nothing that is human alien to me*" said Terence. In a paraphrase: I am human and none of what is informative I am not foreign, because humanity, the world is information.

3. CONCLUSIONS

The book, *Neutrosophic emergences and incidences in communication and information* by Florentin Smarandache and Ștefan Vlăduțescu, represents the buoy that marks the transition of neutrosophy from the emergence phase to the incidence phase. Like any entity, ideas are born and acquire emergence. Some ideas impose and pass to the stage of incidence. Other ideas fade away. For some ideational configurations, the emergence matures into incidence, for others the emergence gets into implosion. In other words, some emergences are validated and accredited, and others get into the implosion. Any emergence is a promise. When they keep their promises, they are felt as strong ideas, as influential ideas and, thus, they have an impact in different areas of the universe of knowledge. Emergence is a tectonic development. Incidence is emergence applicability and its certification. The book is underlain on a solid ideational, well-founded argumentative, bringing new concepts in communication, coherent and cohesive written. Remaining into the neutrosophical coordinates, we have to remind the C. J. Jung's statement: "*The pendulum of the mind oscillates between sense and nonsense, not between right and wrong*".

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