

brain has access to the implicit part (Bohm's implicit reality [3]), if we associate this part to what is called

unconscious.

6 Conclusion

Nowadays, the topological approach is used starting with the string theory to the quantum field theory, in the fluid and complex systems dynamics and to the relativist theories which assume a differential, Riemannian topology, whereas in Mathematics, both Algebra and Differential Geometry are involved in Analysis. Practically speaking, just as information, topology is present at all scales and levels of reality. Network topology, the knot theory of the Information Technology highlights an apparently surprising aspect, the fact that topology is the mathematical instrument suitable for the formalization of information. That is the reason why defining the topology of information could represent the modality of encompassing information under its qualitative aspect and a way of unifying reality through information.

References:

- [1] Agop, M., Gavriluț, A., Crumpei, G., Doroftei, B., Informational Non-differentiable Entropy and Uncertainty Relations in Complex Systems, *Entropy*, 16 (2014), pp. 6042-6058.
- [2] Barabasi, A.L., Bursts: The Hidden Pattern Behind Everything We Do, *Penguin Group (USA) Inc.*, 2010.
- [3] Bohm, D., Meaning And Information, In: P. Pylkkänen (ed.): *The Search for Meaning: The New*

Spirit in Science and Philosophy, Crucible, The Aquarian Press, 1989.

- [4] Crumpei, G., Gavriluț, A., Agop, M., Crumpei, I., Negură, L., Grecu, I., *New Mathematical and Theoretical Foundation in Human Brain Research. An interdisciplinary approach in a transdisciplinary world, Human and Social Studies*, Vol. 3, no. 1 (2014), pp. 45-58.

[5] Heisenberg, W., *The Physical Principles of the Quantum Theory*, Courier Dover Publications, 1949.

[6] Introna, L., *Phenomenological Approaches to Ethics and Information Technology, The Stanford Encyclopedia of Philosophy* (Spring 2005 Edition).

[7] Jung, C.G., *The Undiscovered Self: The Problem of the Individual in Modern Society, New American Library*, 2006.

[8] Onicescu, O., *Énergie informationnelle, C.R. Acad. Sci. Paris A* 263 (1966), pp. 841-842.

[9] Stonier, T., *Information and the Internal Structure of the Universe, Springer Verlag, London*, 1990, pp. 155.

[10] Tegmark, M., *Our Mathematical Universe: My Quest for the Ultimate Nature of Reality, New York*, 2014.

[11] de Valois, R.L., de Valois, K.K., *Spatial vision, New York: Oxford University Press*, 1988.

[12] Weaver, W., Shannon, C.E., *The Mathematical Theory of Communication, Univ. of Illinois Press*, 1963.