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HEALTHCARE DATA VS HEALTHCARE INFORMATION CONTROVERSY: ARE YOU READY TO CHANGE YOUR MIND AND TAKE A STANCE?

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Striking advances in modern computer power, broadband communication and digital sensor technologies have led to an unprecedented flood of health and biomedical data in our surrounding. Handling and processing this big data pose a serious problem for healthcare systems designers and managers.

The most frequently used is the classical data based computational approach. Although it is generally recognized that human-like cognitive or information based processing is much more suitable for big data managing tasks, the lack of a proper definition of what is information leads to a persistent misuse and misappropriation of big data processing enterprises.

To meet the requirement for a fitting information definition, I have proposed (a couple of years ago) a new definition of information derived from Kolmogorov's notion of complexity. In its last and upgraded version, my definition sounds like this: **"Information is a linguistic description of structures observable in a given data set"**.

What follows immediately from this definition is that **information is a complex notion composed of Physical and Semantic information staying for Real and Imagery components of the expression**. What follows from this is that semantic information (the crucial player in data analysis and meaningful data processing) has to be **expressed as a text hierarchy, a story, a narrative. And meaningful data processing turns out to be a text processing paradigm**.

What follows from this is that semantic information (the referenced knowledge base of the system) cannot be learned autonomously and **must be always provided (granted, donated) from the outside**. A whole package of unusual innovations stems from this new information definition (which strikingly **separates information from data**). But abstract space restrictions preclude further exploration of this very important data-information challenge.

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