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Introduction to the primary language: Discovering the algorithm of discovery

This study emphasizes recent results of my research related to the primary language of the human brain and its applications. Our hypothesis is that the primary language is the language of visual streams, i.e., it is based on mental dynamic images (movies), visual streams, so that those streams drive reasoning, reading and writing, translation and serve as a different form, the foundation, for all the sciences (following von Neumann suggestion). Note that, according to this hypothesis, the primary language is not a language in mathematical sense. This study is interested in revealing the detailed nature of the primary language by investigating ancient algorithms, crucial for development of humanity. It is likely that such ancient algorithms are powered by the primary language directly and thus, utilize symbolic reasoning on a limited scope. Our contention is that the hypothetical Algorithm of Discovery (AD) must be one of such algorithms. Yet another such algorithm is Linguistic Geometry (LG), which is a type of game theory, that generates detailed intelligent courses of action (predict behavior) of all sides in a conflict with accuracy exceeding the level of human experts. In a way, we use a Rosetta Stone approach by investigating three items together, the primary language, LG and the AD.

Biography

Boris Stilman is a Professor of Computer Science at the University of Colorado Denver, USA and the Chairman and CEO of STILMAN Advanced Strategies, LLC, USA. In 1972-1988, in Moscow, USSR, he was involved in the advanced research project PIONEER led by a former World Chess Champion Professor Mikhail Botvinnik.

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