2) Coupling situations is induced, link the brain internal and external cognitive manifold node, also a local measurement of cognitive manifold.

3) Base on COM cognitive frame to establish vector situations space for achieving cognitive metrics.

4) To collect Cognitive symbol sequence, high-dimensional cognitive manifold homomorphic to complex cognitive network of low-dimensional manifolds, to realize cognitive topology mapping.

5) Use this method in the English word memory and learning behavior, collection data with smart devices, access to cognitive processes information that is difficult to obtain on traditional psychology with topology mathematical tools for data processing.

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