Experiments on Environmental Reinforcement of Semantic Structures

D. Gueorguiev 5/17/2022

We need to devise an experiment which will clearly demonstrate the necessity of the reinforcement environment in Semantic Space, represented by the vector field $\mathfrak{F}$. Recall $\mathfrak{F}$ is defined by a vector $\vec{f}$ from the field at position $\vec{r}$ and time t in Semantic Space:

$$\vec{f} = \vec{f}(\vec{r}, t) \qquad (1)$$

Experiment 1:
We are given:

a) a set $\mathcal{S}_A$ of semantic aspects $\{A_1, A_2, \dots, A_L\}$
b) a set $\mathcal{S}_P$ of already constructed semantic properties $\{P_1, P_2, \dots, P_M\}$ each of which uses a subset of the defined semantic aspects
c) a set $\mathcal{S}_V$ of already constructed primitive semantic particles $\{V_1, V_2, \dots, V_N\}$