Synchronization of Intelligent Assets through Strategic Communication Induced Personality Traits. A Theoretical Hypothesis

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This theoretical hypothesis builds upon the idea that repetition of behavioral patterns in different ways of life result in a variety of cognitive traits. A model was created in order to understand how messages from strategic communications may allow for the synchronization of the socially intelligent asset with the larger global discourse.

The success of information operations are mainly dependent on two essential conditions, the channel through which information can reach targeted audiences, detailed information and knowledge of target audience which provides the ability to develop the necessary informational constructs, thus giving the actor a chance to simulate the operational zone. Actions resulting from interpretation and simulation of these informational constructs are a result of asset's profound cognitive understanding of self and the larger environment.

Malicious use of advanced technologies allow in the current age to increase the efficiency and the sophistication of information penetration into human consciousness as these techniques are currently undergoing development it is very difficult to foresee their consequences. Advanced technologies which include artificial intelligence based techniques have led to increasing in the quantitative and qualitative abilities to manipulate public consciousness thus leading to a new aspect in political destabilization. [1]

Strategic psychological warfare (SPW) aims at a long term development of collective action systems in a way that is desirable for a leading actor and their affiliates. Underestimating the role of currently evolving advanced technologies would be deadly. Targeted Informational discourse created using modern-day techniques of Big Data and AI can lead to a significant impact on the already Unstable Dynamic Social Equilibrium, the creation of these vulnerabilities due to random and negative impacts of informational discourse can be called as High Tech SPW (HTSPW). [2]

The combination of psychological influence techniques, AI systems and big data may in the future lead to the creation of synthetic information products that would behave in ways similar to malicious software products. These synthetic information products unlike their software counterparts will have a direct impact on human beings, designed with the malicious intention of driving a large number of people into depression. As many cases in history suggest a means of attack can be converted into equally effective means of defense, this theoretical hypothesis looks into how the cognitive capacity of intelligent assets can be increased to meet the upcoming challenges due to these synthetic information products. [3]

This theoretical hypothesis tries to build an algorithm where the intelligent agent first becomes comfortable in modeling himself thus the agent sees himself as coming together of various personalities. These various personalities take shape due to the variety of personality traits that were latent within and also new traits that get gathered from the process of

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interaction and comparison with other agents. These processes are studied under an existing information discourse with which the intelligent agent is trying to get aligned.
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The conducted research demonstrates the use of different personalities of the self which when given autonomy may allow for a better alignment and synchronization with the informational environment and thus leading to the intelligent agent shaping the informational discourse. A model has been created in this paper using trait based modeling that looks into how communications can shape the personality of intelligent agents interested in the informational discourse. This hierarchical model through different stages of a combination of existing personality traits leads to the selection of personality traits based on the needs of messages emanating from an informational discourse.

This research creates a model wherein a socially intelligent agent's abilities to differentiate different personality traits within himself is used to create separate unique personalities according to the needs of strategic communication discourse, thus allowing for the increase in the efficiency of influence operations.

References

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