The Need in Subject-Oriented Intelligent Agents Based on Reasoning Interface Models for Sustainable Organisations

Kozlov Michail, PhD
New Israel Association of Science
Department of Cybernetic Subject-Oriented Systems
Address Mosinzon Yigal st., 1, Netanya, Israel 4223980
E-mail: 19mike19k@gmail.com

Rotkin Vladimir, PhD
New Israel Association of Science
Department of Cybernetic Subject-Oriented Systems
Address Shai Agnon St., 9, Haifa, Israel 3551909
E-mail ed.el.fromru@gmail.com

Rybalov Alexander, PhD
New Israel Association of Science
Department of Cybernetic Subject-Oriented Systems
Address Carmel 509, Psagot, Israel 9062400
E-mail alxndr_r@yahoo.com

Abstract

Purpose - The rapid development and widespread adoption of AI technologies not only significantly impacts global socioeconomic relations but also requires addressing a number of issues related to the role of AI systems. This paper explores the need for the creation of Subject-oriented Intelligent Agents (SIAs) Based on Reasoning Interface Models (RIMs) adaptive to natural technologies and their use as personalized universal assistants for the sustainable socioeconomic development of society.

Method – To create the RIM-based SIA, methods from data mining theory, robust systems, gray systems and high-order cybernetics are used, as well as the works of speakers such as "Mandatory Features and Differences of Intelligence. Waves of Indoctrination" (Michail Kozlov), "Concept of A.I. Based Knowledge Generator" (Vladimir Rotkin, etc.), and "Neuro-Symbolic Verification for Preventing LLM Hallucinations in Process Control" (Alexander Rybalov, etc.).

Results - The use of a RIM-based SIA will not only help each individual solve a variety of current problems, but also monitor the health of its owner and, by focusing on his apperception, protect him from indoctrination, as well as stimulate creative activity in his owner, allowing for an increase in the effectiveness of the Collective Intelligence.

Organisation - The subject-oriented approach discussed in the report is consistent with current trends in the shift from mass production to subject-oriented production based on AI technologies and can be used positively by interested organizations.

Society - The use of SIA will help avoid the indoctrination and degradation of society that the uncontrolled development of AI technologies threatens, and will create more comfortable conditions for all of humanity.

Originality - The use of evolutionary processes-like methods for using small samples adaptive to information flows will enable the creation of low-cost RIMs with a flexible interface that operate in real time, according to the phrase Sapienti Sat.

Limitations - The authors consider general approaches that, with further analysis, can be supplemented and adjusted.

Keywords: Subject-oriented Intelligent Agents, Reasoning Interface Models, Apperception, Collective Intelligence.

Artificial intelligence technologies should benefit
and empower as many people as possible.
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