



## Мастер-класс «Применение цифровых инструментов в образовании»

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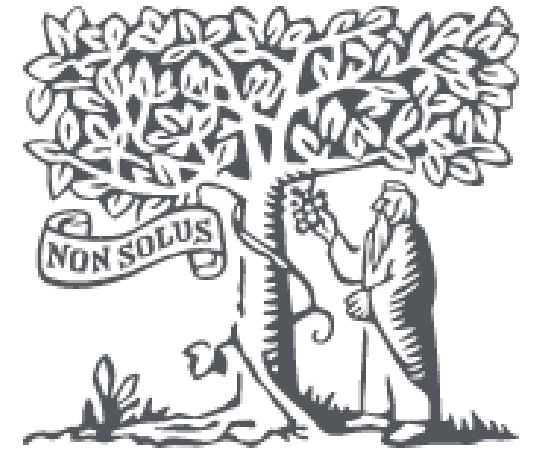
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Cognitive Systems Research  
Volume 66, March 2021, Pages 100-121



# Cognitive Evaluation of Machine Learning Agents

Suvarna Kadam, Vinay Vaidya

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## Abstract

Advances in applying statistical Machine Learning (ML) led to several claims of human-level or near-human performance in tasks such as image classification & speech recognition. Such claims are unscientific primarily for two reasons, (1) They incorrectly enforce the notion that task-specific performance can be treated as manifestation of General Intelligence and (2) They are not verifiable as currently there is no set benchmark for measuring human-like cognition in a machine learning agent. Moreover, ML agent's performance is influenced by knowledge ingested in it by its human designers. Therefore, agent's performance may not necessarily reflect its true cognition. In this paper, we propose a framework that draws parallels from human cognition to measure machine's cognition. Human cognitive learning is quite well studied in developmental psychology with frameworks and metrics in place to measure actual learning. To either believe or

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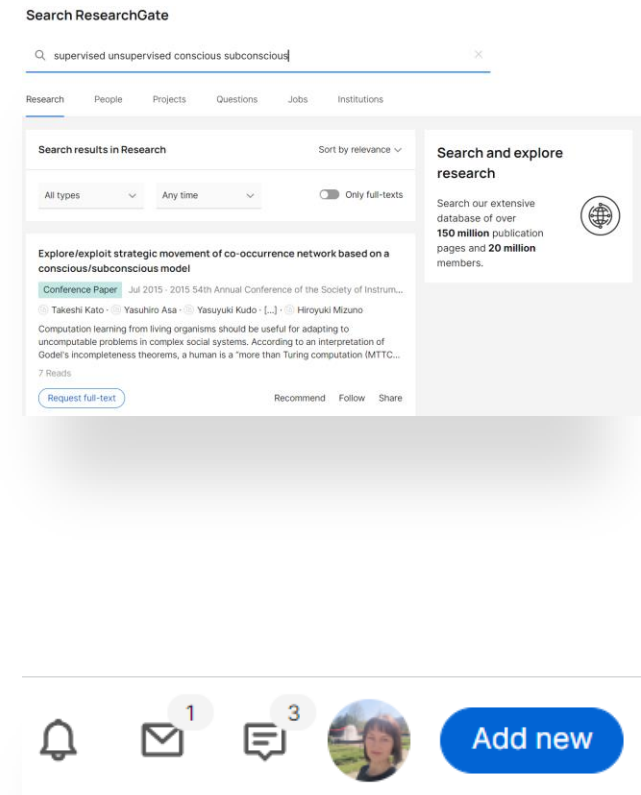
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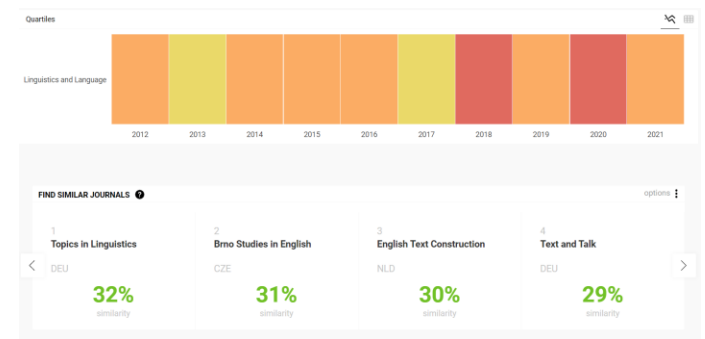
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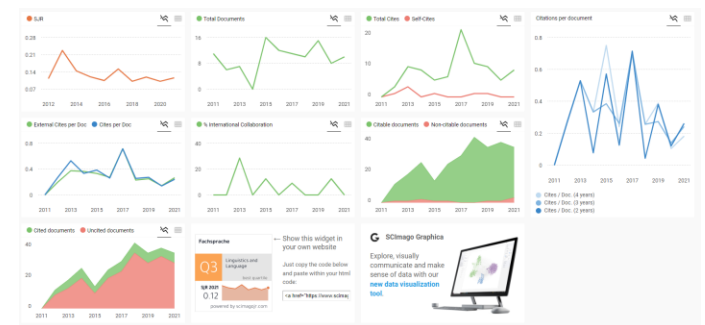
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Abstract

Introduction

Literature

Methods

Results

Discussion

Conclusion

Statements

Connectors

Highlighting results

Studies with similar results

Studies with different results

Study limitations

Interestingly, / Surprisingly, / Importantly, the results reveal ...

A somewhat surprising / remarkable relationship was ...

An unexpected observation reported in section [X] was ...

While the expected finding was [X], this study showed ...

One interesting aspect that emerged from the analysis is ...

Interestingly, it was also observed that ...

Altogether, what particularly stands out is ...

The most striking observation to emerge from the analysis was ...

The most important / interesting / significant aspect of the data was the ...

The most interesting / significant observation emerging from our data was ...

The single most striking difference revealed was ...

This gap / increase / relationship is worth highlighting, as ...

As discussed in the Results section, there was a striking / notable / clear ...

This study appears to be the first to find that ...



**Ekaterina Isaeva**

📍 Пермь ⓘ Подробнее

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