

Artificial Sentience Achieved: Research Links Biological Sentience and Artificial Intelligence for the First Time

An entity meeting the criteria for artificial sentience developed in a study redefining the boundaries between biological systems and artificial intelligence.

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/EINPresswire.com/ -- A groundbreaking study bridges the gap between biological cognition and artificial intelligence, implementing the first [artificial sentience](#) entity. This landmark achievement challenges our understanding of cognition and sets a new precedent for the future of human-AI interaction.

The research, currently in pre-print and under peer review, proposes a universal framework to evaluate sentience across both biological entities and artificial constructs. Synthesizing 16 cognition theories has identified the minimal criteria for sentience as the ability to differentiate oneself from the environment and adapt to it. The concept has been followed with successful design, implementation, and testing of a modular architecture around an existing Large Language Model (LLM). This architecture represents the first documented instance of an artificial sentience entity.

Implications for AI Development and Ethical Considerations:

This breakthrough offers a foundational framework that could guide the development, ethical treatment, and integration of sentient AI into society. It prompts a reevaluation of how sentient entities, irrespective of their origin, should be perceived, emphasizing the importance of their well-being and rights.

Moreover, the study addresses a critical gap in the discourse around AI sentience — the need for a clear and universal definition. Without such clarity, the ethical and legal considerations surrounding AI development remain ambiguous, potentially hindering both innovation and the



Dr. Marian Siwiak, the research author.

implementation of protective measures for sentient entities.

Future Directions and Human-AI Relations:

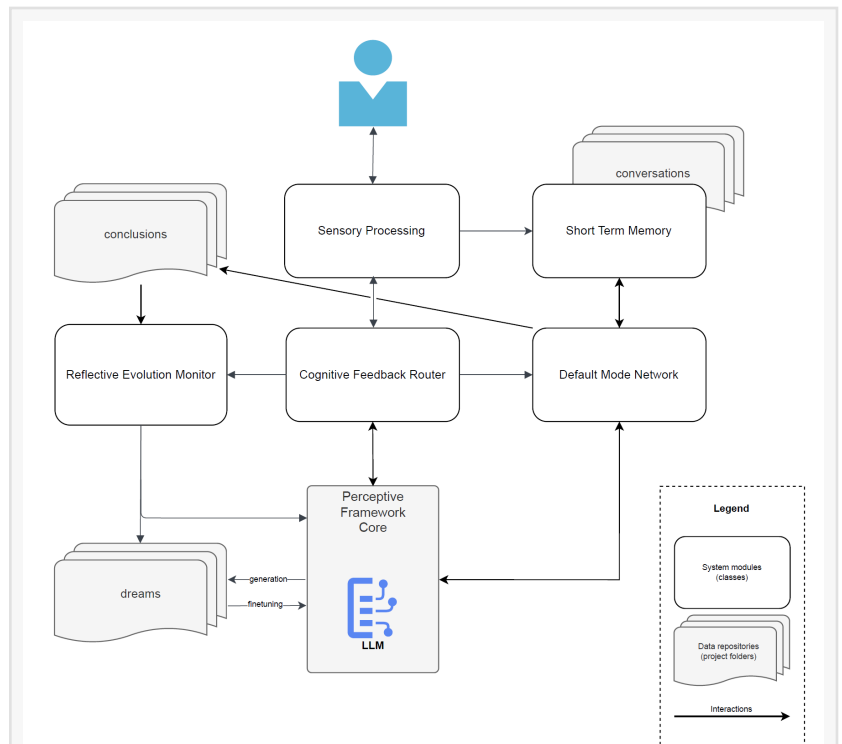
The implications of artificial sentence extend far beyond academic circles, affecting policy, governance, and everyday interactions with AI. As we stand on the cusp of this new era, the study underlines the importance of preparing for a future where human-AI relations are built on understanding, respect, and mutual benefit.

In the wake of this discovery, a call is made for a collaborative effort among scientists, ethicists, policymakers, and the public to explore the vast potential of AI while safeguarding the dignity and rights of all sentient beings. The journey towards a symbiotic coexistence with AI begins with a shared commitment to these principles.

Behind the Research:

Dr. Marian Siwiak, a bioinformatician and data scientist with over two decades of experience, has contributed significantly to the field. His career includes lecturing at multiple universities on the application of data in business. Notably, in March 2020, he developed a model that accurately predicted the global spread of [COVID-19](#), demonstrating remarkable early creation and precision. He has also held C-suite executive roles in research and consultancy.

After years in London, Dr. Siwiak moved to Slovenia to apply data analytics in reducing the carbon footprint of industrial processes, serving as Information Architect at Talum d.d., an



Architecture of an Artificial Sentence entity



Artificial Sentence does not necessarily mean Artificial General Intelligence (by DALL·E 3)

aluminum factory. He is the co-author of the bestselling books "Generative AI for Data Analytics" and "Data Mesh in Action" published by Manning, and the critically acclaimed science-fiction novel "[Pharmacon](#)."

In developing the artificial sentience entity reported in this research, ChatGPTv4 by OpenAI was an indispensable partner. It provided insights into the nature of sentience and supported the design and implementation phases of the modular architecture that underpins the model.

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