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S-AI-ANTI HALLUCINATION: A BIO-INSPIRED AND CONFIDENCE-AWARE SPARSE AI FRAMEWORK FOR RELIABLE GENERATIVE SYSTEMS

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*ABSTRACT*

*Large Language Models (LLMs) exhibit impressive generative capabilities but remain prone to hallucinations — plausible yet false statements produced with high confidence. Such phenomena undermine trust and reliability in sensitive domains including health, law, and cybersecurity. Despite significant progress in retrieval-augmented generation (RAG), calibration methods, and mixture-of-experts (MoE) architectures, existing systems still lack a unified framework for veridiction, abstention, and energy-aware reasoning. This work introduces S-AI Against Hallucinations, a bio-inspired and parsimonious architecture derived from the Sparse Artificial Intelligence (S-AI) framework. The proposed model implements a symbolic-hormonal orchestration mechanism that enables generative agents to detect uncertainty, abstain when appropriate, and maintain citation integrity under ambiguous or adversarial conditions. The system relies on four hormonal variables — Hallucination Uncertainty (HU), Citation Integrity (CI), Contradiction Observer (CO), and Retrieval Evidence (RE) — dynamically regulated by a MetaAgent through hysteresis-based thresholds. Experiments performed on diverse scenarios, including factual question answering, scientific summarization, numerical reasoning, and out-of-distribution prompts, demonstrate stable abstention behavior, consistent citation tracking, and adaptive evidence retrieval. Evaluation follows a transparent and reproducible protocol inspired by PRISMA standards and Scopus-indexed benchmarking practices. S-AI Against Hallucinations provides a coherent, confidence-aware foundation for explainable and resource-efficient generative intelligence. It establishes a conceptual and operational bridge between statistical learning, symbolic reasoning, and biological homeostasis, paving the way for reliable and ethically governed AI systems.*

*KEYWORDS*

*Sparse Artificial Intelligence (S-AI), Hormonal MetaAgent, Symbolic-Hormonal Orchestration, Hallucination Mitigation, Confidence-Aware Reasoning, Explainable and Frugal AI, Triadic Memory System, Governed Parsimony, Retrieval-Augmented Veridiction.*

1. INTRODUCTION

1.1. Context and Motivation

Large Language Models (LLMs) have reached extraordinary levels of fluency and versatility, yet they continue to produce *hallucinations*—statements that sound plausible but are factually false or unsupported. These errors threaten trust, accountability, and safety in sensitive domains such as medicine, law, cybersecurity, and education. The root causes are well known: optimization for next-token prediction rather than factual veridiction, missing provenance links, adversarial prompt manipulation, and limited ability to abstain when evidence is insufficient. Despite advances in retrieval-augmented generation (RAG), mixture-of-experts (MoE), and multi-agent systems, no unified framework currently combines veridiction, abstention, explainability, and

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## WGU Cybersecurity Architecture and Engineering (KFO1/D488) Sample Questions (Q10-Q15):

**NEW QUESTION # 10**
A company wants to ensure that the integrity of its systems is maintained during the startup process.
Which security technology can ensure the integrity of the system during startup by verifying that the system has not been compromised?

- A. Measured boot
- B. Hardware security module (HSM)
- C. Two-factor authentication
- D. Intrusion detection system (IDS)

**Answer: A**

Explanation:
The correct answer is D - Measured boot.
WGU Cybersecurity Architecture and Engineering (KFO1 / D488) explains that Measured Boot, often implemented with Trusted Platform Modules (TPMs), ensures that each component of theboot process is verified for integrity. It provides cryptographic evidence that the system's startup sequence has not been tampered with.
Two-factor authentication (A) secures user logins but does not verify boot integrity. IDS (B) monitors network or host behavior but does not protect the boot process. HSM (C) secures cryptographic operations, not the system boot.
Reference Extract from Study Guide:
"Measured Boot verifies the integrity of the boot process, providing assurance that the system has not been compromised during startup."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), System Hardening and Trusted Computing

**NEW QUESTION # 11**
Which software allows the user to easily access the hardware of a computer?

- A. FTP client
- B. Productivity
- C. Application
- D. Operating system

**Answer: D**

Explanation:
The operating system (OS) is the primary software that manages all the hardware and other software on a computer. It acts as an intermediary between users and the computer hardware. The OS handles basic tasks such as controlling and allocating memory, prioritizing system requests, controlling input and output devices, facilitating networking, and managing files. Examples include Windows, macOS, and Linux.

**NEW QUESTION # 12**
When is it better to purchase software rather than build a software solution in-house?

- A. When the company wants to develop the skill sets of its internal IT staff
- B. When the company has very specific needs
- C. When the company wants internal growth
- D. When there is a short timeline

**Answer: D**

Explanation:
It is better to purchase software rather than build a software solution in-house when there is a short timeline.
Building software from scratch requires significant time for development, testing, and deployment. Purchasing off-the-shelf software can significantly reduce the time needed to implement a solution. Other considerations include:
* Cost-effectiveness: Pre-built software can be more cost-effective than developing a custom solution, especially when factoring in the costs of development, maintenance, and support.
* Immediate availability: Purchased software is usually ready to deploy immediately, whereas custom development can take months or even years.
* Proven reliability: Commercial software often has a track record of reliability and user support, reducing the risk of bugs and issues that may arise with custom development.
Therefore, when time is of the essence, purchasing software is the preferable option.
References
* Ian Sommerville, "Software Engineering," Pearson.
* Steve McConnell, "Rapid Development: Taming Wild Software Schedules," Microsoft Press.

**NEW QUESTION # 13**
A company is developing a new mobile application to support external customers and contractors. The application needs to allow users to sign in using third-party social identities.
What is the best protocol?

- A. Security Assertion Markup Language (SAML)
- B. Kerberos
- C. Lightweight Directory Access Protocol (LDAP)
- D. Open Authorization (OAuth)

**Answer: D**

Explanation:
The correct answer is D - Open Authorization (OAuth).
According to the WGU Cybersecurity Architecture and Engineering (KFO1 / D488) Study Guide, OAuth is the standard protocol used for authorizing access to third-party applications without revealing user credentials.
It allows users to log in using social identity providers like Google, Facebook, or LinkedIn, which is perfect for external customers and contractors accessing a mobile application. OAuth is designed for modern applications requiring delegated access.
SAML (A) is generally used for enterprise single sign-on (SSO) solutions, primarily for internal enterprise authentication, not social login. Kerberos (B) is used within controlled internal network environments for authentication. LDAP (C) is a directory access protocol, not an authorization protocol for third-party sign-in.
Reference Extract from Study Guide:
"OAuth enables users to grant a third-party application limited access to their resources withoutexposing their credentials, making it ideal for mobile and web applications involving external users."
- WGU Cybersecurity Architecture and Engineering (KFO1 / D488), Authentication and Authorization Concepts

**NEW QUESTION # 14**
Which part of the Uniform Resource Locator (URL) identifies the server on which the web page can be found?

- A. IP address
- B. Resource path ID
- C. Protocol
- D. Domain name

**Answer: D**

Explanation:
* The domain name in a Uniform Resource Locator (URL) identifies the server on which the web page can be found.
* Example:
In the URL "http://www.example.com/index.html":
* "http" is the protocol.
* "www.example.com" is the domain name.
* "/index.html" is the resource path ID.
* The other options:

* The protocol specifies the communication method.
* The resource path ID specifies the specific page or resource on the server.
* The IP address is not typically visible in the URL itself but can be resolved via DNS.
* Therefore, the domain name is the correct part that identifies the server.
References:
* "Web Development and Design Foundations with HTML5" by Terry Felke-Morris, which explains URL components.
* "Internet and World Wide Web How to Program" by Paul Deitel and Harvey Deitel, which covers URLs and their structure.

**NEW QUESTION # 15**
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