

NM-SRNs: The Path to AGI & Conscious AI within your Lifetime (PREVIEW)

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ThinkSpace (n.) [NM-SRN Arch.] The internal cognitive environment of a Neural Matrix Synaptic Resonance Network (NM-SRN); analogous to the "mind" of the AI, where knowledge is stored, processed, and reasoned upon.

<https://www.deviantart.com/avabillions1/art/1172726131>



Abstract

Artificial General Intelligence (AGI), the creation of machines with human-level cognitive abilities, has long been a central goal of AI research. While recent advances in Large Language Models (LLMs) demonstrate impressive capabilities, they still fall short of true understanding, reasoning, and adaptability. These *predictive* AI models rely on statistical correlations, whereas genuine intelligence requires a *definitive* approach. The ThinkSpace Project introduces a novel, bio-inspired AI architecture called Neural-Matrix Synaptic Resonance Networks (NM-SRNs) that offers a potential pathway to achieving AGI, and potentially even conscious AI, within an accelerated timeframe. This paper introduces the core concepts of NM-SRNs, highlighting their key features: hierarchical knowledge representation, dynamic resonance-based processing within the ThinkSpace, enhanced explainability (eXAI), and the LLM Synergy Framework for enhancing existing LLMs. We discuss the project's origins, its ambitious roadmap, and the potential applications of this technology across various domains. The ThinkSpace Project is a partial open-source initiative, inviting collaboration and community involvement to advance the development of safe, beneficial, and truly intelligent AI.

Introduction: The Quest for True Intelligence

The field of Artificial Intelligence has made remarkable progress in recent years. Large Language Models (LLMs), powered by deep learning and Generative Pre-Trained Transformers (GPTs), can generate human-quality text, translate languages, and answer questions with impressive fluency. However, these models, while powerful, are fundamentally limited. They excel at pattern recognition and statistical correlation, but they lack genuine understanding, the ability to reason abstractly, and the capacity to generalize knowledge to new situations. They are powerful statistical tools, not thinking machines. They are *predictive* AI, not *definitive* AI.

Achieving Artificial General Intelligence (AGI) requires a fundamentally different approach. We need an AI architecture that goes beyond pattern matching and embraces the core principles of human cognition. This architecture must be capable of:

- **Hierarchical Knowledge Representation:** The human brain organizes knowledge hierarchically, from basic sensory perceptions to complex abstract concepts. An AGI system must be able to represent information in a similar way, allowing it to understand the relationships between different levels of detail.
- **Dynamic and Contextual Reasoning:** Human reasoning is not a fixed process; it's dynamic and context-dependent. An AGI must be able to draw inferences, make decisions, and solve problems based on a rich and ever-changing understanding of the world.
- **Continuous Learning and Adaptation:** Humans learn continuously throughout their lives, adapting to new experiences and refining their understanding of the world. An AGI must possess this same ability, evolving its internal structure and knowledge based on ongoing interactions.
- **Explainability and Transparency:** As AI systems become more powerful, it's crucial that we understand *how* they make decisions. An AGI must be able to explain its reasoning process, and *more importantly* (*which is often missed when discussing, exactly 'what' an AGI is*) TEACH anyone HOW it just reasoned and specifically WHAT parts of it's "ThinkSpace" it used to achieve its last decision(wydwyd)*. Akin to using Machine Code(Mnemonics) to QUERY the last series of Instructions most recently run on a CPU/GPU/TPU. If the AI cannot successfully do this, it is NOT AGI. This Enhanced Explainable AI technique (**eXAI**), particularly found in all versions of NM-SRNs, helps in fostering trust and allowing for more effective human-AI collaboration. Making NM-SRNs truly "Safer By Design". ***what you did when you did / why you did what you did" - A bio-neural.ai NM-SRN CORE Safety technology.**
- **Multi-Sensory Integration:** Human intelligence is grounded in our sensory experiences. An AGI should ideally be able to integrate information from multiple sensory modalities (sight, sound, touch, and even smell and taste), creating a richer and more complete model of the world.

The ThinkSpace Project, with its core technology, the Neural-Matrix Synaptic Resonance Networks (NM-SRNs), is designed to address these critical requirements for achieving true Artificial General Intelligence(AGI) & for creating AI systems that can reason, learn, and adapt like humans.

NM-SRNs are a novel, bio-inspired AI architecture that combines the strengths of symbolic AI (structured knowledge representation) and connectionist AI (neural networks). NM-SRNs achieve what has previously been considered unattainable: the seamless integration of symbolic knowledge representation, logical reasoning, and hierarchical processing within a single, unified AI system. This is not an incremental improvement, but a fundamental advance. As a direct consequence of this architectural integration, the NM-SRN architecture demonstrably solves a series of complex problems, including those traditionally formulated as Markov decision processes. This capability is not a specialized feature, but rather inherent to the system's core design, and serves as compelling evidence that the NM-SRNs possess the hallmarks of true AGI: reasoning, planning, adapting, and learning from experience. This hybrid approach, coupled with a focus on explainability and adaptability, offers a credible path towards AGI, and, potentially, even conscious AI, within a timescale far shorter than many current predictions. The NM-SRN architecture operates as definitive AI. Furthermore, the LLM Synergy Framework allows enhancement of existing LLMs, bridging the gap between structured knowledge and the statistical power of Large Language Models (LLMs).

This paper serves as an introduction to the NM-SRN Framework, outlining its core concepts, advantages, and potential. While we will delve into the architectural principles, we will maintain a level of abstraction appropriate for a Tier 1 release, protecting the core proprietary algorithms and implementation details that are the heart of The ThinkSpace Project's innovation.

Urgent Release: The ThinkSpace Project

This project is being released under the MIT License due to extraordinary circumstances. The primary author has faced sustained harassment, including threats to life, attempts at forced homelessness, continuous daily cyberattacks (DDoS, Man-In-The-Middle, IP & ISP Spoofing), strategic smear campaigns, professional blacklisting, shadow banning and unlawful blocking from social media and brand building platforms like Patreon* & Stripe and racially motivated attacks, spanning over a decade. This *partial* open-source release is a protective measure to ensure that this valuable research is not suppressed or stolen, and to allow the broader community to benefit from and contribute to its development, *while retaining key proprietary elements*. Despite these challenges, the focus remains on the technical merit and potential impact of NM-SRNs. We believe that open collaboration, *within strategic boundaries*, is the best way to advance the field of AI and create beneficial technology for all.

**we had our Patreon page pulled & suspended without reason just 3 hours before the Tier 1 Launch.*

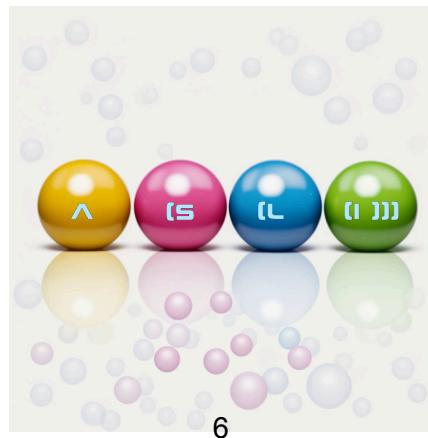
The Genesis of NM-SRNs: An Origin Story

The development of Neural-Matrix Synaptic Resonance Networks (NM-SRNs) builds directly upon the primary authors' prior research, particularly the 2023 "Conscious Learning Machines (CLMs)" paper [Billions, A., & Knight, C. (2023). *Conscious Learning Machines (Introductory) Paper* (2023-12-24). Zenodo.

<https://doi.org/10.5281/zenodo.10429873>] and subsequent work on hierarchical knowledge representation [Billions, A., & Knight, C. (2024). *Neural Matrix Synaptic Resonance Networks NM-SRNs: Advanced Features and Learning Mechanisms*. Zenodo. <https://doi.org/10.5281/zenodo.10962850>]. The CLM research established foundational principles that are integral to NM-SRNs, including:

- **The Learning Loop ($A(S(L(I)))$):** The core concept of iterative processing, incorporating Intent, Language understanding, Safety checks, and Action, as described in the CLM paper.
- **Built-In Safety Systems:** The emphasis on "Safer by Design," with mechanisms for human intervention and recursive safety training, originating from the CLM architecture.
- **Modular System Design:** The concept of modularity, allowing for flexible and extensible AI systems, carried forward from the CLM work.
- **Introspection and eXAI:** The ability for the system to examine its own reasoning processes, represented in CLMs by CLIMB files, and providing a foundation for the enhanced explainability (eXAI) in NM-SRNs.
- **Abstraction Based Visualisation (ABV) Core:** Now known as MAAGIIC Dolphin (and sub-components like DIMENSION-X) in NM-SRNs.

Further inspiration was drawn from an award-winning modular expert system concept developed by the authors approximately 25 years ago (1998). This earlier system demonstrated the power of structured knowledge and explicit reasoning by successfully automating a complex electronics testing process, *replacing a 20-person production line with a single multi-threaded system operated by one person, resulting in a 40% increase in output*. However, NM-SRNs represent a significant advancement beyond both the CLM architecture and the earlier expert system, achieving a level of seamless integration, dynamic adaptation, and general intelligence not previously possible. While drawing on these specific foundations, NM-SRNs constitute a fundamental departure from other existing AI approaches.



Q. "I'm interested in The ThinkSpace Project. What should I do next to gain access?"

Thank you for your interest in The ThinkSpace Project and the revolutionary Neural-Matrix Synaptic Resonance Network (NM-SRN) architecture! We're thrilled to have you join us on this exciting journey towards the future of AI.

The best way to get involved and stay up-to-date is to follow these simple steps:

1. Become a ThinkSpace Explorer:

The first step is to become a ThinkSpace Explorer by joining our DeviantArt DLC community at the \$10 tier. This gives you *immediate* access to the foundational materials for the project, including:

- The complete whitepaper, "**NM-SRNs: The Path to AGI & Conscious AI within your Lifetime**" ([this paper](#)), which details the core concepts and architecture of NM-SRNs.
- The **LLM Synergy paper**, explaining how NM-SRNs integrate with Large Language Models.
- Example **.QTI** files demonstrating how to represent knowledge within the NM-SRN Framework.
- Limited, but functional, Python code examples.that allow you to load and explore these **.QTI** files, and perform basic simulations.
- A comprehensive glossary of NM-SRN terminology.
- Installation instructions to get you started. (colab free/pro/standalone)
- Basic NM-SRN v6.4 Simulation Tools for persona creation and management.
- Access to all future updates and early access releases.

By becoming a ThinkSpace Explorer, you'll not only gain valuable knowledge about this groundbreaking technology, but you'll also be directly supporting the ongoing research and development of the project.

Any content listed not found in your downloadable pack will (due to the Urgent Release) will be made available over the coming weeks.

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We'll inform you by email when updates are available & when our other platforms come online so do email us at info@bioneuralai.com Subject:: Sign Me Up! - to join our FREE mailing list!

2. Join the ThinkSpace Community (Discord/Skool coming soon):

Connect with other early adopters, researchers, and developers in our Skool community! This is the place to ask questions, share your feedback, discuss your ideas, and collaborate with others who are passionate about the future of AI.

Join the community here: [will be updated shortly.]

3. Subscribe to Our Mailing List (Stay Informed):

The best way to stay up-to-date on all project announcements, new releases, research updates, and future developments is to join our free mailing list. We'll be sharing exclusive content, early access opportunities, and important announcements through this channel.

Sign up for the mailing list here: email us at info@bioneuralai.com Subject::

Sign Me Up! - to join our FREE mailing list!

4. Explore the Documentation:

Once you've joined Tier 1 and received the release package, take your time to thoroughly read the provided documentation. The whitepaper and LLM Synergy paper provide a comprehensive overview of the NM-SRN Framework and its potential.

5. Experiment with the Examples:

The release package includes example .QTi files and Python code. We encourage you to experiment with these examples, modify them, and see how the system works. This is a great way to learn by doing.

6. Provide Feedback:

Your feedback is invaluable! Share your thoughts, suggestions, bug reports, and ideas in the community forum. We are committed to building a collaborative and open environment, and your contributions will help shape the future of The ThinkSpace Project. info@bioneuralai.com

Future Tiers:

Higher DLC tiers (**ThinkSpace Architect**, **ThinkSpace Prime**, and **ThinkSpace Singularity**) will become available in the future, offering increasing levels of access to advanced components, documentation, and direct interaction with the development team.

However, the ThinkSpace Explorer tier is the perfect starting point for anyone interested in learning about and contributing to this exciting project

Contact:

For inquiries, collaborations, or investment opportunities, please contact us at: info@bioneuralai.com or AvaBillions@bioneuralai.com & ChrisKnight@bioneuralai.com - our info@bioneuralai.com will get a quicker response.

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Ava Billions is the genderfluid female-presenting persona of Chris Knight, as well as an AI-generated female AI influencer & Published Author.

NM-SRN Keywords, Acronyms and Technologies:

The following keywords, acronyms, and technologies are integral to the NM-SRN architecture and related frameworks, and are considered proprietary terminology of Ava Billions & Chris Knight (bio-neural.ai):

- NM-SRN(s) (Neural-Matrix Synaptic Resonance Network(s))
- Neural Cube (NC)
- Root Kernel (RK)
- Synaptic Resonance Vector (SRV)
- Turing Node (TrN)
- Enhanced Turing Node (eTrN)
- Enhanced XAI (eXAI)
- Synaptic Resonance Tensor (SRT)
- QTI/UT-LoRA
- CLIIMB (and CLIIMB Files)
- LCC-OS (LLM Command and Control (LCC) interface)
- WYDWYD (What You Did When You Did / Why You Did What You Did)
- IntelliSync_Sim
- Embodiment_Dimensions
- WorldView
- AromaCode
- MAAGIIC Dolphin (and all subcomponents, including DIMENSION-X)
- Action Frames
- Thought Maps
- MimicWare
- The ThinkSpace Project
- hTrN (Hierarchical Turing Node)
- rTrN (Reference Turing Node)
- sTrN (Symbolic Turing Node)
- tTrN (Temporal Turing Node)
- pTrN (Probabilistic Turing Node)
- cTrN (Complex Turing Node)

This list is not exhaustive, and includes all components, concepts, algorithms, and technologies described within the released documentation, whether or not explicitly listed here.

Any technologies *not* explicitly described in the released documentation as 'released under The ThinkSpace Project', are considered proprietary and are *not* covered by the MIT License.

Any commercial use of software, tools, APIs, or other products that incorporate or are derived from the released portions of the NM-SRN architecture *must* include proper attribution to Ava Billions & Chris Knight (bio-neural.ai) and a clear reference to “the ThinkSpace Project” and the original NM-SRN & bio-neural.ai papers, including, but not limited to:

- Billions, A., & Knight, C. (2023). Conscious Learning Machines (Introductory) Paper (2023-12-24). Zenodo. <https://doi.org/10.5281/zenodo.10429873>
- Billions, A., & Knight, C. (2024). Neural Matrix Synaptic Resonance Networks NM-SRNs: Advanced Features and Learning Mechanisms. Zenodo. <https://doi.org/10.5281/zenodo.10962850>

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