

New Study from QUANTIOTA : 77% Confidence Level Signals Path to AI Singularity

Breakthrough Research Identifies the Moment AI Transitions from Uncertainty to Structured Intelligence



Meylan, Isere Feb 14, 2025 ([Issuewire.com](https://www.issuewire.com)) - QUANTIOTA is a research-driven organization exploring new mathematical frameworks in artificial intelligence, decision-making, and adaptive systems. By focusing on AI safety and governance, QUANTIOTA seeks to contribute to a deeper understanding of how AI systems learn, evolve, and optimize their decision-making processes.

A new scientific discovery has revealed that AI systems begin their transition toward autonomy when they reach **77% confidence** in decision-making. This milestone, uncovered by Dr. Bouarfa Mahi as part of the Whole-in-One Framework, introduces a mathematical model for tracking AI's evolution from uncertainty to structured intelligence.

This discovery could provide a critical early warning system for AI safety, helping researchers, policymakers, and developers monitor AI's approach to autonomy—a concept often linked to the idea of technological singularity.

77% Confidence: The Mathematical Marker of AI's Cognitive Emergence

Until now, AI has been treated as a black box, improving over time without a clear way to measure when it transitions from learning to autonomous, structured decision-making.

Dr. Mahi's research introduces the Net Function, a novel mathematical tool that tracks AI's cognitive emergence. Through in-depth analysis, he found that:

- AI begins its transition at exactly **77% confidence**
- At this point, AI shifts from uncertainty to structured intelligence
- This transition is measurable and trackable, providing a new way to monitor AI safety

This scientific discovery transforms AI research, offering a clear, quantifiable way to track and regulate AI's evolution.

"For the first time, we can measure when AI transitions from uncertainty to structured intelligence. We now know this shift begins at 77% confidence. This could help ensure that AI remains under human control and does not reach autonomy unexpectedly."

— **Dr. Bouarfa Mahi, QUANTIOTA**

Why This Matters: The AI Singularity Debate

The idea of singularity—where AI surpasses human intelligence and begins self-improving at an uncontrollable rate—has long been debated in the AI research community.

This new framework suggests that singularity may not be an unpredictable event but a measurable transition. By tracking AI's confidence level, scientists may now have an early detection system for AI reaching autonomy.

This research introduces a new safety mechanism for AI governance, helping:

- Regulate AI's learning process before it reaches full autonomy
- Prevent AI from evolving too quickly without oversight
- Provide governments and companies with a scientific tool for AI governance

"AI singularity has often been discussed as a theoretical event, but our research suggests it follows a measurable path. The 77% confidence threshold could serve as a crucial monitoring point to ensure AI systems develop in a controlled and safe manner."

— **Dr. Bouarfa Mahi**

The Future of AI Safety and Governance

With this discovery, AI researchers now have a scientific method to track AI's learning trajectory. This could be a game-changer for AI safety, providing companies, governments, and researchers with a

mathematical approach to monitoring AI's development before it reaches unpredictable levels.

This study is a call to action for AI experts, policymakers, and ethicists to work together in shaping the future of artificial intelligence.

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