Arab Dialogue Circle on
"Artificial Intelligence in the Arab World"
Innovative Technologies & Ethical Challenges

دائرة الحوار العربي حول
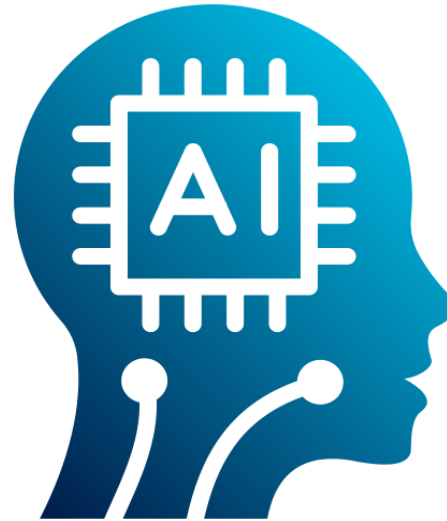الذكاء الاصطناعي في العالم العربي
تطبيقات مبتكرة وتحديات اخلاقية

AI, The Last Technology!

Dr. Mohamed Salem

Senior Consultant, AAST

Former Cabinet Minister, MCIT, Egypt

February 2025

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NAIF ARAB UNIVERSITY FOR SECURITY SCIENCES

الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري
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MAJOR DATES

August 1956

Professor John McCarthy

Announces the Birth of Artificial Intelligence

67 Years Later

May 2023

Professor Geoffrey Hinton,

Nobel Prize Winner, 2024

God Father of AI

Announcing his resignation from Google, saying:

"I regret the work I dedicated my life to in the field of artificial intelligence."

AI EVOLUTION

❖ AI Time Line:

- ❑ **Beginnings (1956-1970)**
- ❑ **AI Winter (1970-2000)**
- ❑ **Revival (2000-2017)**
- ❑ **Paradigm Shift (2017-2019)** Transformer, Emergent Abilities
- ❑ **Generative AI (2020)**
- ❑ **AI Now.**

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AI NOW

❖ **AI has become an** **integral part of our daily life****. Evolving rapidly in terms of capabilities, applications, and societal impact.**

❖ **AI applications covered most sectors of our life like:** **Healthcare, Finance, Education, Transportation, Entertainment****, and others.**

❖ **The world supports AI through unprecedented** **funding, research, policies, education & human resources****.**

❖ **The pace of AI development has become astonishing, and its impact has grown immensely significant.**

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OVERLOOKED SIDE OF AI

❖ **Despite the global push for AI advancement, fueled by significant investments and resource allocation, a crucial aspect is often overlooked: companies seldom acknowledge the potential threats of AI. Moreover, there is a noticeable absence of prominent leaders or figures advocating for necessary safety protocols or even basic cooperation to mitigate AI foreseeable risks.**

❖ **However, a handful of experts have raised concerns about the potential dangers of AI, with some even warning of its "existential threat to humanity." Among these voices, it is particularly noteworthy to highlight two distinguished and renowned scientists who have expressed such concerns.**

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THE PROMINENT WARNING

Dec. 2, 2014

The late world-renowned physicist

Stephen Hawking.

"The development of full artificial intelligence could spell the end of the human race. It would take off on its own, and re-design itself at an ever increasing rate. Humans, who are limited by slow biological evolution, couldn't compete, and would be superseded."

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THE WHISTLE BLOWER

that humanity is just a passing phase in the evolution of intelligence

❖ He talked about "Digital Intelligence" and the "Existential Threat" it poses, adding "likelihood of this threat is increasing as 99% of support goes to developing AI technology, and the remaining 1% goes to efforts to mitigate its negative effects".

❖ He said that the decisive moment in his decision was his discovery of the machine's ability to think "logically" or "Reasoning", and that was the moment when Hinton realized the danger of his research in this field and then made his decision to resign.
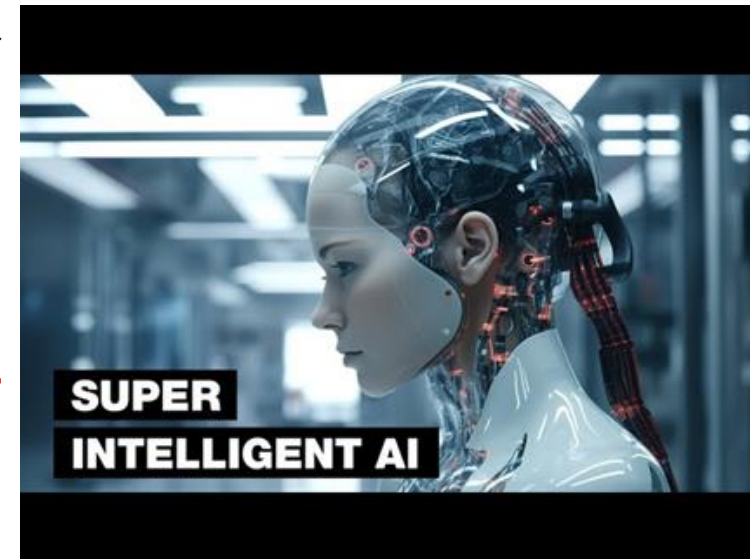
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THE WHISTLE BLOWER

❖ Talking about the "naivety" of those calling for a halt to the development of artificial intelligence. If Microsoft-backed Open AI stops, Google will not stop. If the USA stops, China will not stop. Moreover, it is certain that countries will support by all means the production of weapons based on AI.

❖ Appeared in "Newsnight", BBC on Oct. 8, 24, saying:

"Everybody I know believes AI intelligence will Exceed Human intelligence, and will Take Control, its just a question of WHEN?"

seriously that these things will get smarter than us

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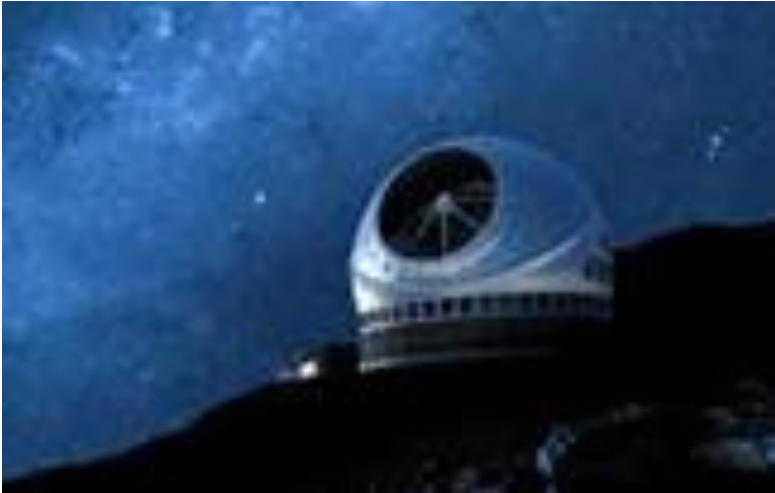تطبيقات مبتكرة وتحديات اخلاقية

CONCLUSION

❖ **Throughout modern history no other technology has received such attention, no one knows how long AI era will last, and probably it will be the "LAST" technology.**

❖ **Despite its numerous advantages across various domains, the lack of control over its development poses an "existential risk," as humanity could be "superseded" by "more intelligent" machines.**

❖ **And, misuse of AI technology in military applications, or losing control, could spell the end of the human race**

SUPER INTELLIGENT AI

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PROPOSAL
Establishment/Activation
Two Units

1. AI Arab Observatory

2. AI Risk Management Unit

المرصد العربي للذكاء الاصطناعي

وحدة إدارة مخاطر الذكاء الاصطناعي

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1.AI Arab Observatory

❖ **Continuous AI development & updates Follow-up**

❖ **Data Collection, Categorization & Saving.**

❖ **Data Analysis, Inferencing .**

❖ **Early warring.**

❖ **Predictions.**

❖ **Knowledge Dissemination.**

❖ **Culture Building.**

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2. AI RISK MANAGEMENT UNIT

❖ **Potential Risks Identification** (Bias and Discrimination, Privacy Violations, Job Displacement, Security Risks, Lack of Transparency: "Black box" AI models, Ethical Concerns).

❖ **Assess These Risks.**

❖ **Develop Mitigation Strategies.**

❖ **Implementation and Monitoring.**

❖ **Collaboration and Communications.**

❖ **Knowledge Dissemination.**

❖ **Culture Building.**

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Thanks For Your Attention