



Workshop on Trustworthy AI and Cyber-Physical Systems

TAC Challenges & Discussion

August 12th, 2024
Manaus-AM, Brazil



TAC Challenges & Discussion

(I) How to take advantage of the AGE of AI but...

- (1) to avoid the new colonialism or new imperialism by AI?**
- (2) to prevent AI from generating generations of non-thinking heads?**
- (3) to minimize resources and energy needed?**

1 - How to avoid the new colonialism or new imperialism by AI?



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AI Colonialism

An MIT Technology Review series, supported by the MIT Knight Science Journalism Fellowship Program and the Pulitzer Center, investigating how AI is enriching a powerful few by dispossessing communities that have been dispossessed before.



INTRODUCTION

Artificial intelligence is creating a new world order

Over the last few years, an increasing number of scholars have argued that the impact of AI is repeating the patterns of colonial history. European colonialism, they say, was characterized by the violent capture of land, extraction of resources, and exploitation of people—for example, through slavery—for the economic enrichment of the conquering country. While it would diminish the depth of past traumas to say the AI industry is repeating this violence today, it is now using other, more insidious means to enrich the wealthy and

2 - How to prevent AI from generating generations of non-thinking heads?

[nature](#) > [humanities and social sciences communications](#) > [articles](#) > article


Article | [Open access](#) | Published: 09 June 2023

Impact of artificial intelligence on human loss in decision making, laziness and safety in education

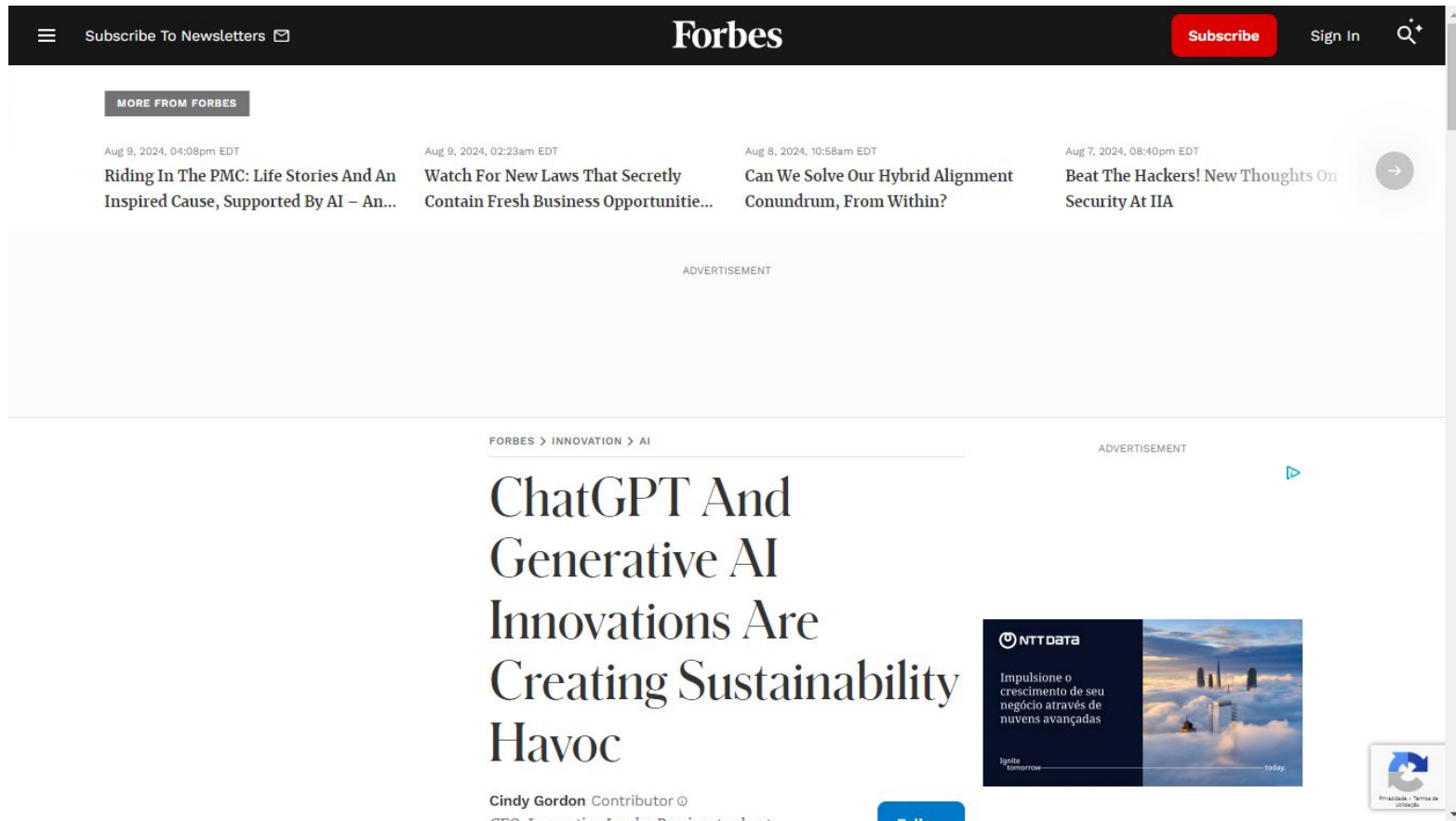
[Sayed Fayaz Ahmad](#) , [Heesup Han](#) , [Muhammad Mansoor Alam](#), [Mohd. Khairul Rehmat](#), [Muhammad Irshad](#), [Marcelo Arraño-Muñoz](#) & [Antonio Ariza-Montes](#)

Humanities and Social Sciences Communications **10**, Article number: 311 (2023) | [Cite this article](#)

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 A [Correction](#) to this article was published on 29 June 2023

3 - How to minimize resources and energy needed?



The screenshot shows the Forbes website interface. At the top, there is a navigation bar with a menu icon, "Subscribe To Newsletters" with an envelope icon, the "Forbes" logo, a "Subscribe" button, and a "Sign In" link. Below the navigation bar, there is a "MORE FROM FORBES" section with four article thumbnails. The first article is "Riding In The PMC: Life Stories And An Inspired Cause, Supported By AI – An..." dated Aug 9, 2024. The second is "Watch For New Laws That Secretly Contain Fresh Business Opportunitie..." dated Aug 9, 2024. The third is "Can We Solve Our Hybrid Alignment Conundrum, From Within?" dated Aug 8, 2024. The fourth is "Beat The Hackers! New Thoughts On Security At IIA" dated Aug 7, 2024. Below this section is an "ADVERTISEMENT" placeholder. The main content area features a breadcrumb trail "FORBES > INNOVATION > AI" and another "ADVERTISEMENT" placeholder. The main article title is "ChatGPT And Generative AI Innovations Are Creating Sustainability Havoc" by Cindy Gordon, Contributor. The article includes a blue "Follow" button and a small advertisement for NTT DATA with the text "Impulsione o crescimento de seu negócio através de nuvens avançadas".

3 - How to minimize resources and energy needed?



“ ChatGpt needs to drink 500 ml of clean fresh water for a simple conversation on roughly 20-50 questions and answers.

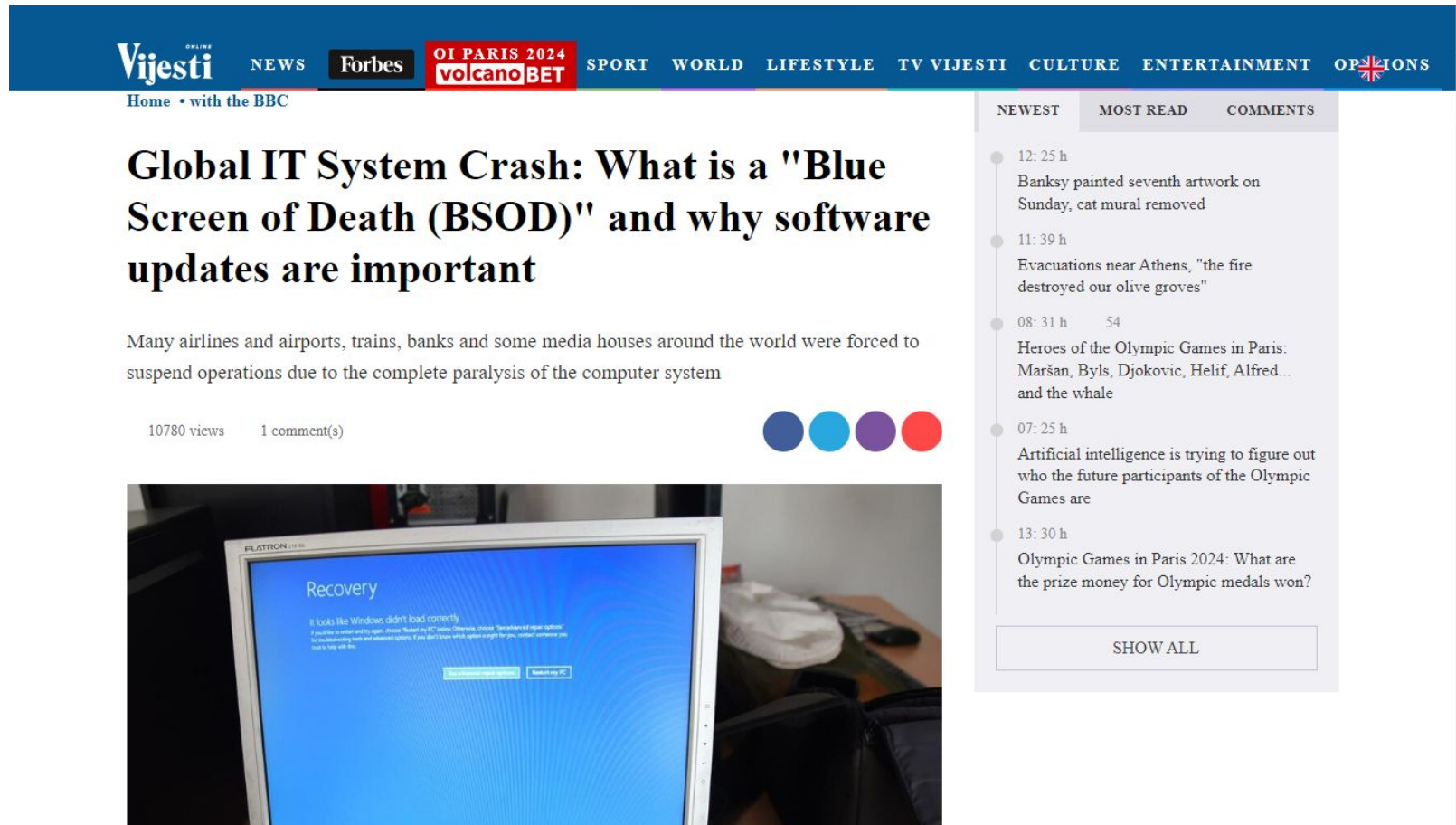


“ It emits approx. 8.4 tons of carbon dioxide per year, more than double the emissions of an average individual.

3 - How to minimize resources and energy needed... a MATRIX embryo being born?

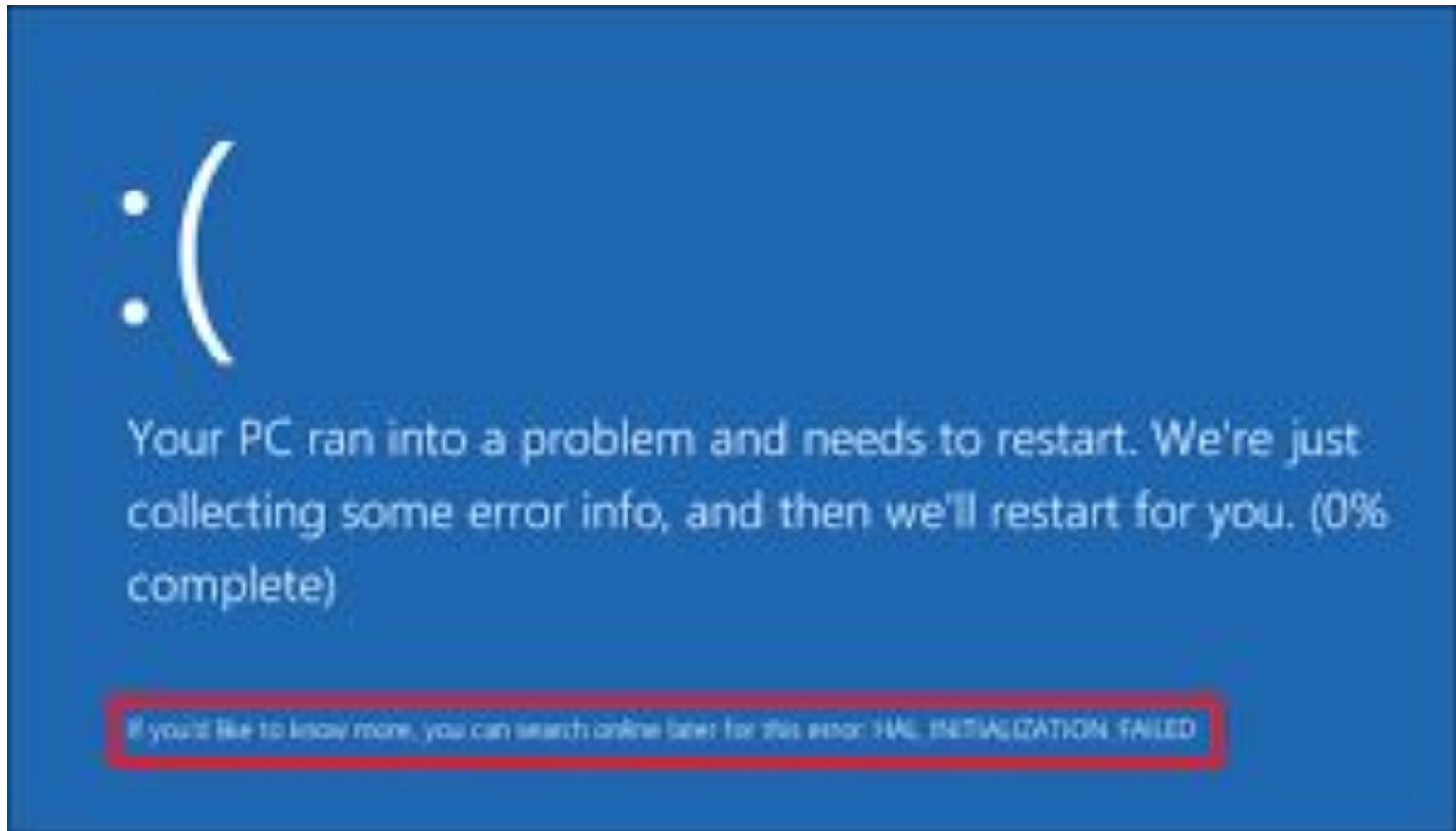


4 - How to take advantage but avoid technological dependence? And avoid cascading effects like the blue screen of death (BSOD)



The screenshot shows a news article on the Vijesti website. The article title is "Global IT System Crash: What is a 'Blue Screen of Death (BSOD)' and why software updates are important". The article text states: "Many airlines and airports, trains, banks and some media houses around the world were forced to suspend operations due to the complete paralysis of the computer system". Below the text, there are statistics for 10780 views and 1 comment(s). A photograph of a computer monitor displaying a Windows Recovery screen is included. The recovery screen text reads: "Recovery. It looks like Windows didn't load correctly. If you're having trouble with your system, Restart your PC to troubleshoot the problem. Or, you can try Advanced Startup to troubleshoot your Windows startup problem and then update your Windows software. If you don't have a backup of your files, contact your PC manufacturer for help." There are buttons for "Restart my PC" and "Advanced Startup".

4 - How to take advantage but avoid technological dependence? And avoid cascading effects like the blue screen of death (BSOD)?



TAC Challenges & Discussion

How to take advantage but avoid technological dependence?

How to reshape the enterprise and the challenges for global governance?

... and for defense and national sovereignty?