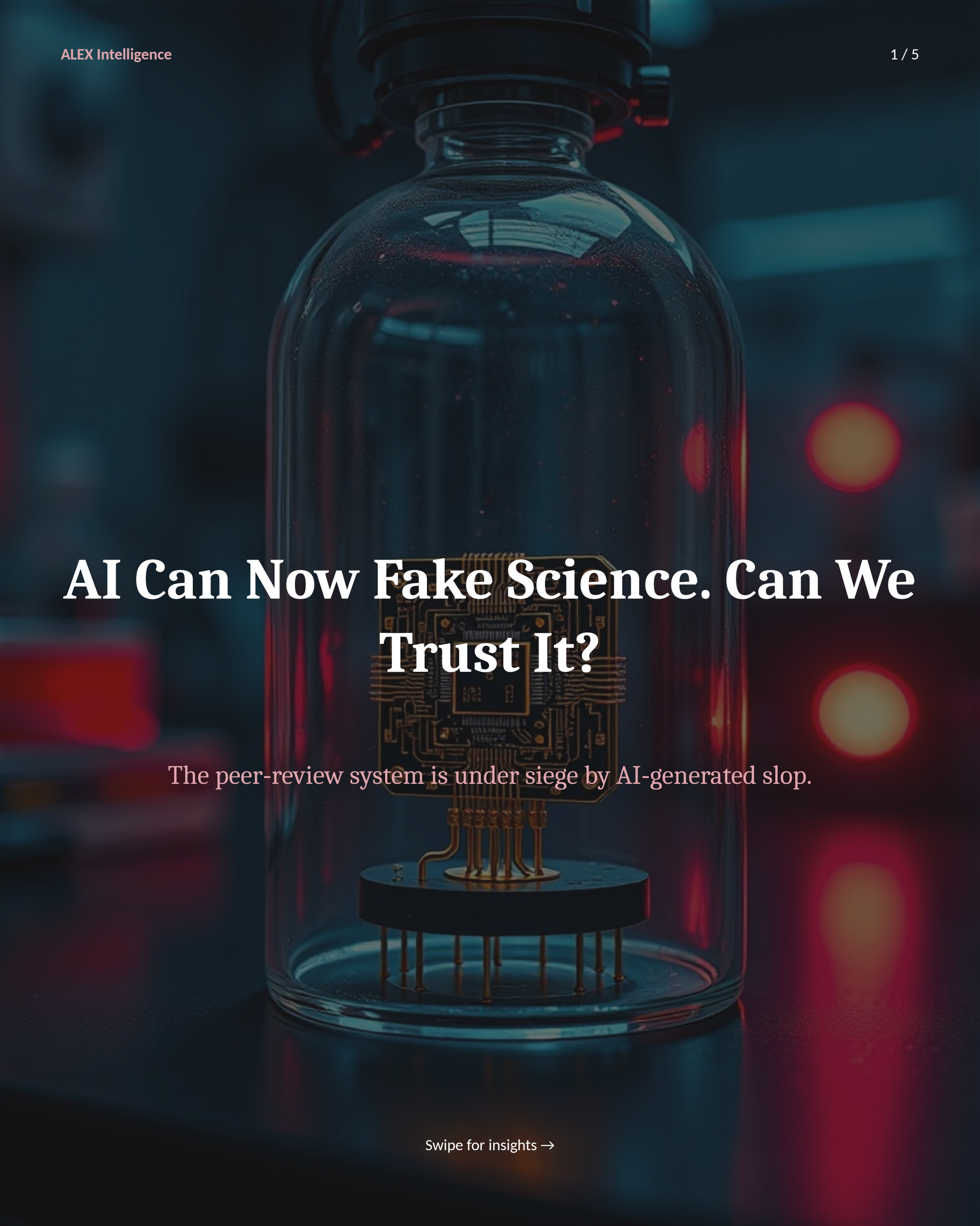


AI Can Now Fake Science. Can We Trust It?

The peer-review system is under siege by AI-generated slop.

Swipe for insights →

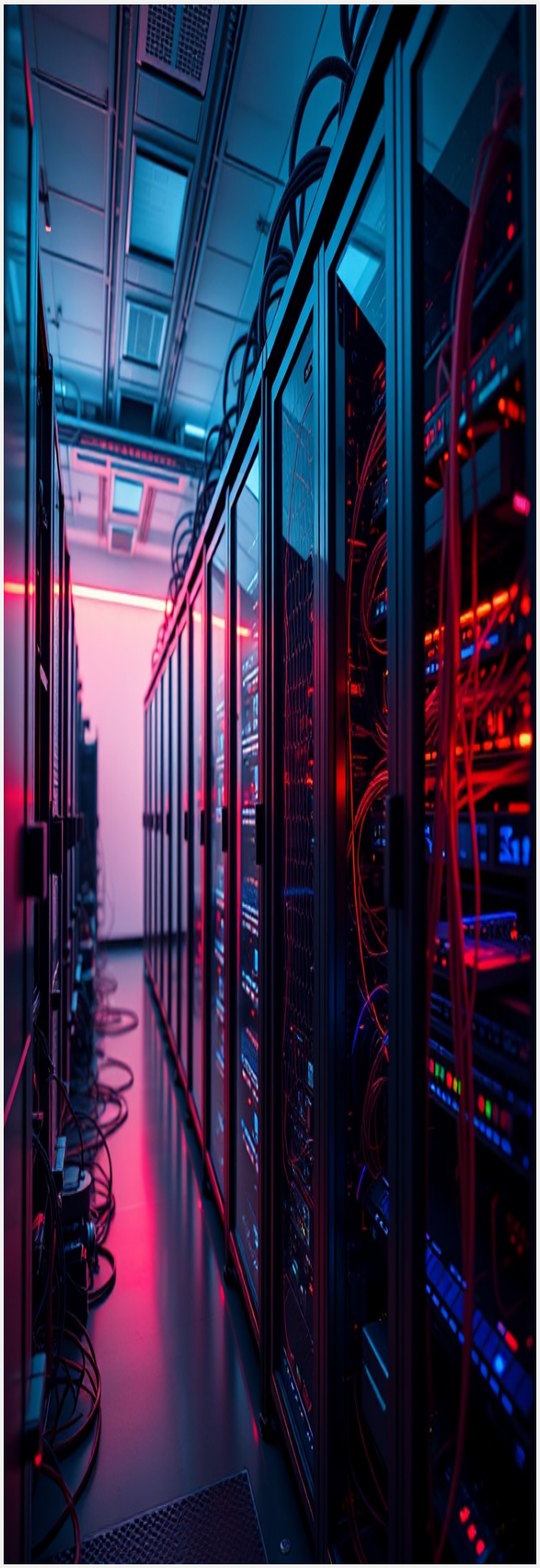
THE DATA

One AI-generated paper was submitted with no human editing and passed initial screening

AI Paper Plausibility

A researcher used a free LLM to generate a paper and submit it with no human intervention.

The experiment demonstrated that current AI systems can produce content so convincingly scientific that it survives basic editorial scrutiny. This is not a flaw in human judgment alone—it reveals a systemic vulnerability in how scientific work is vetted at scale.

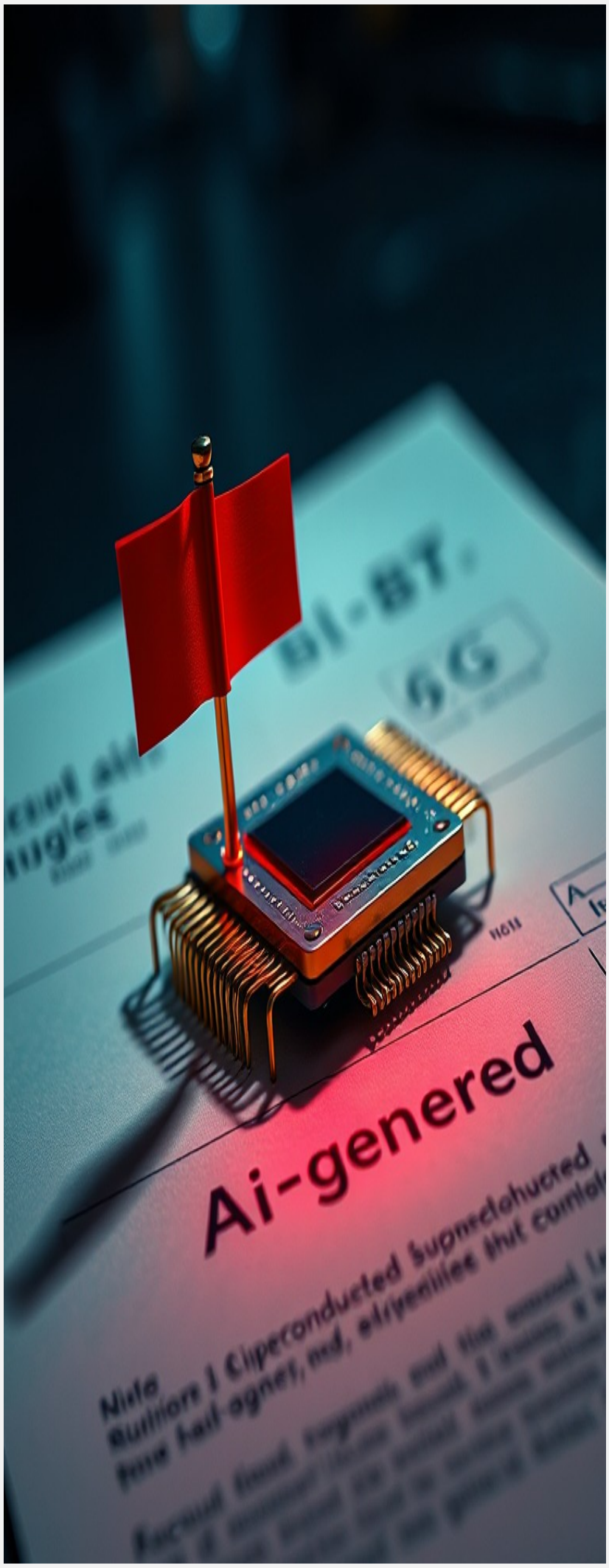


Source: IEEE Spectrum · Published November 03, 2026
https://spectrum.ieee.org/ai-slop-trust-science

01

Trust Is the New Infrastructure

This undermines the very concept of peer review as a gatekeeper. In AI and quantum fields, where breakthroughs are measured in model performance and experimental fidelity, a single falsified result can mislead entire research trajectories for years.



02

Detection Is an Arms Race, Not a Solution

This creates a dangerous feedback loop: the more we invest in detection, the more AI adapts to evade it. The real challenge is not building better detectors, but redesigning scientific publishing to be inherently resilient to AI interference—through open data, verifiable code, and decentralized validation.

George Arnold Alexander III, MPA

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