HORN Free! Roaming Rhinos Could Be Guarded by AI Drones

Author: Brian Caulfield

Call it the ultimate example of a job that's sometimes best done remotely. Wildlife researchers say rhinos are magnificent beasts, but they like to be left alone, especially when they're with their young.

In the latest example of how researchers are using the latest technologies to track animals less invasively, a team of researchers has proposed harnessing high-flying AI-equipped drones to track the endangered black rhino through the wilds of Namibia.

In a paper published earlier this year in the journal PeerJ , the researchers show the potential of drone-based AI to identify animals in even the remotest areas and provide real-time updates on their status from the air.

While drones — and technology of just about every kind — have been harnessed to track African wildlife, the proposal promises to help gamekeepers move faster to protect rhinos and other megafauna from poachers.

AI Podcast host Noah Kravitz spoke to two of the authors of the paper.

Zoey Jewell is co-founder and president of wild track.org, a global network of biologists and conservationists dedicated to non-invasive wildlife monitoring techniques. And Alice Hua is a recent graduate of the School of Information at UC Berkeley in California, and an ML platform engineer at CrowdStrike.

And for more, read the full paper at https://peerj.com/articles/13779/ .

Artem Cherkasov and Olexandr Isayev on Democratizing Drug Discovery With NVIDIA GPUs

It may seem intuitive that AI and deep learning can speed up workflows — including novel drug discovery, a typically yearslong and several-billion-dollar endeavor. However, there is a dearth of recent research reviewing how accelerated computing can impact the process. Professors Artem Cherkasov and Olexandr Isayev discuss how GPUs can help democratize drug discovery.

Lending a Helping Hand: Jules Anh Tuan Nguyen on Building a Neuroprosthetic

Is it possible to manipulate things with your mind? Possibly. University of Minnesota postdoctoral researcher Jules Anh Tuan Nguyen discusses allowing amputees to control their prosthetic limbs with their thoughts, using neural decoders and deep learning.

Wild Things: 3D Reconstructions of Endangered Species With NVIDIA's Sifei Liu

Studying endangered species can be difficult, as they're elusive, and the act of observing them can disrupt their lives. Sifei Liu, a senior research scientist at NVIDIA, discusses how scientists can avoid these pitfalls by studying AI-generated 3D representations of these endangered species.

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Original URL: https://blogs.nvidia.com/blog/2022/11/09/ai-equipped-drones-rhinos/