

Last month, Chen and colleagues unveiled the first all-optical chip 1, called LightGen, that can run advanced generative AI models to produce images and videos.

A team of engineers has developed a new kind of computer chip that uses light instead of electricity to perform one of the most power-intensive parts of artificial intelligence -- image ...

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In large-scale AI fabrics comprising tens of thousands of optical links, component failures become statistically inevitable. However, the hard and soft failure rates of today's optical modules remain ...

In-package and chip-to-chip optical interconnect not only promise to support the computational bandwidth that AI data centres demand, but they can also reduce latency, heat ...

Using advanced optical modules boosts AI system speed and bandwidth, helping handle large data loads with low delay and high efficiency. Optical modules reduce power consumption and ...

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more than one physical data center, says Velaga. The opportunity for optical ...

Tech giants such as NVIDIA already integrate optical components into AI systems, meaning the leap to light-based processors may arrive sooner than we think. Once scaled, optical AI ...

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