Optoelectronic Fusion GPU Chip

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It will allow for the multi-functional integration of communications, sensing, and computing chips, as well as optoelectronic intelligent chips, promoting innovation in ultra-broadband optical networks, satellite ...

A few days ago, a team of academicians and associate researchers from Tsinghua University welcomed new achievements in chips. They created an optoelectronic fusion chip called ACCEL.

This approach has led to three-dimensional optoelectronic architectures that combine the best of traditional semiconductors with the quantum-engineered properties of flatland materials.

This roadmap not only formally confirms the continued integration of the Groq LPU design but also indicates that the "Feynman" next-generation accelerated computing platform will ...

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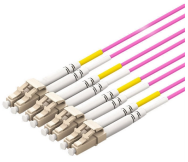
The ultra-high-performance optoelectronic chip proposed by the research team at Tsinghua University adopts a new architecture of optoelectronic fusion, which is disruptive to existing...

The integration and co-design of optoelectronic chips integrates silicon-based optoelectronics and high-speed interconnect integration technologies, and has significant application prospects...

Here, we propose the reconfigurable diffractive processing unit, an optoelectronic fused computing architecture based on the diffraction of light, which can support different neural networks...



The ACCEL chip adopts a fully simulated optoelectronic fusion computing framework, through a multi-layer optical diffraction neural network, to perform feature extraction and data ...

Our team has carried out original explorations of large-scale reconfigurable optoelectronic intelligent computing in terms of theory, architecture, algorithms, and systems.

Contact Us

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