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Bellingham, Wash. : SPIE Optical Engineering  
Press, ©1994

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(Applied Optics 1992) 405 Compact holographic

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optical CNNs, the data patching (a necessary process in the convolutional layer) is mostly ...

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efficiency, parallelism and computational speed.

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Ms 06 space optics ...

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### **C. Lee Giles: Older Publications**

The parallelism of optics and the miniaturization of optical components using nanophotonic structures, such as

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Metasurfaces, present a compelling alternative to electronic implementations of convolutional neural networks. The lack of a low-power optical nonlinearity, however, requires slow and energy-inefficient conversions between the electronic and optical domains.

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We introduced a Python-based design framework for manufacture-friendly optical ANN. It provides the cross-level interoperability between the photonic circuit chip layout and

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the neural networks infrastructure to enable the optical ANN with better tolerance to the device-by-device or chip-by-chip deviation.

## **A manufacture-friendly design framework for optical neural ...**

We show optical waves passing through a nanophotonic medium can perform artificial neural computing. Complex information is encoded in the wavefront of an input light. The medium transforms the wavefront to realize sophisticated computing tasks such as image recognition. At the output, the optical energy is concentrated in well-defined

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Ms 06 locations, which, for example, can be interpreted as the ...

## **OSA | Nanophotonic media for artificial neural inference**

Abstract: We introduce an electro-optic hardware platform for nonlinear activation functions in optical neural networks. The optical-to-optical nonlinearity operates by converting a small portion of the input optical signal into an analog electric signal, which is used to intensity -modulate the original optical signal with no reduction in processing speed.

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## **Reprogrammable Electro-Optic Nonlinear Activation ...**

Researchers have shown that a neural network can be trained using an optical circuit (blue rectangle). The laser inputs (green) encode information that is carried through the chip by optical waveguides (black). The chip relies on tunable beam splitters, which are represented by the curved sections in the waveguides.

## **Toward All-Optical Artificial Neural Networks | Optics ...**

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## **All-optical machine learning using diffractive deep neural ...**

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2018 ... complex system of neural networks.

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II. Governing propagation model and neural network Situation under study, model and analytical results Optical pulse propagation in an optical fibre with distributed gain/loss can be well described by a modified NLSE including the effects of linear GVD, nonlinear self-phase modulation (SPM) and linear gain/loss [25].

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