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Interconnection Networks: A Neural Network Solution," IEEE/OSA J. of Lightwave Technology, Special Issue on Optical Interconnections for Information Processing, 13(6), p. 1111, 1995.

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Figure 1. Optical neural computer architecture. In this paper we describe two experimental implementations of optical neural computers which demonstrate how currently available optical devices may be used in this application. The first experiment we describe involves an optical associative loop which uses feedback through a neural plane in the form

Experimental Demonstrations of Optical Neural Computers

Recent progress on optical neural networks (ONNs) heralds a new future for efficient deep learning accelerators, and novel, to the best of our knowledge, architectures of optical convolutional neural networks (CNNs) provide potential solutions to the widely adopted convolutional models. So far in optical CNNs, the data patching (a necessary process in the convolutional layer) is

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*This Article received the Biomedical Optics Student Paper Award at the OSA 2020 Biophotonics Congress.

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measurement," *Optica*, volume 5, issue
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10.1364/OPTICA.5.000864. Researchers
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