Technology

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PHOTONICS FOR NEUROMORPHIC COMPUTING AND THEIR APPLICATION IN OPTICAL DEVELOPMENT p.10

***Abstract***

***Some key features of the architecture and types of photonic elements for neuromorphic computers, as well as the main methods for their design, are considered. Many aspects of the creation and development prospects of artificial intelligence systems are also considered, in particular its application in optical development and other industries. Some data of photonics systems implemented in practice, created by the author of this article, are given. Practical recommendations are given in some significant areas in the field of neuromorphic computers.***

***Keywords: Photonics, artificial intelligence, neural network, neuromorphic invention, inventive problem, lens, aberrations, optical system, machine vision, lithography, biomedical system, optimization, bandwidth***