Multiwavelength Neuromorphic Photonics

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Abstract: Neuromorphic photonics promises orders of magnitude improvements in both speed and energy efficiency over digital electronics. We will give an overview of neuromorphic photonic systems and their application to optimization and machine learning problems. © 2019 TheAuthor(s **OCIS codes:** syD8(sa)446(ae)en(3)24(pr5(e)15s1)15an(3)2ce5.3334rn3-1A1

potential to be at least ten thousand times faster than state-of-the-