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Existence and Exponential Stability of Almost Periodic Solutions for a Class of Neural Networks with Variable Delays [1]

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Abstract: In this paper, some sufficient conditions for the existence and exponential stability of almost periodic solutions for Cohen–Grossberg neural networks with variable delays are obtained by applying Banach fixed point theory and differential inequality techniques. Some previous results are improved and extended. Moreover, an example is given to illustrate that our results are feasible.

Keywords: *Cohen–Grossberg neural networks; almost periodic solutions; exponential stability.*

Mathematics Subject Classification (2000): 03C50, 34C27, 34D23, 34K50, 92B20.