

Global Exponential Convergence Analysis of Hopfield Neural Networks with Continuously Distributed Delays

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Abstract: A model of Hopfield neural networks with continuously distributed delays is considered. A new sufficient condition which guarantees global exponential stability of an equilibrium point is given based on Lyapunov functional approach and inequality technique. Compared with the previous results, our result provides a wider range since it possesses many adjustable parameters.

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Key words: Hopfield neural networks, distributed delays, global exponential stability

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