



云南大学学报(自然科学版) » 2002, Vol. 24 » Issue (2): 93-95,100 DOI:

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### 具有变时滞的细胞神经网络的全局指数稳定性

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### Globally Exponential Stability of Cellular Neural Networks with Time-varying Delays

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全文: PDF (949 KB) HTML ( KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 研究具有可变时滞的细胞神经网络的全局指数稳定性问题,得出了可变时滞的细胞神经网络全局指数稳定性的几个充分条件.在实际应用中,设计验证满足这些条件很方便,甚至无须知道时滞的具体形式,因而具有重要的理论意义和应用价值.

关键词: 细胞神经网络 Lyapunov函数 变时滞 全局指数稳定性

Abstract: Study the problem of global exponential stability for cellular neural networks with time-varying delays,its some criterions are established.These criterions can easily be used to design and verify globally stable networks,furthermore,the results presented here are independent of any delays forms and thus have important significance in both theory and applications.

Key words: cellular neural networks Lyapunov function time-varying delay global exponential stability

收稿日期: 2000-12-26;

基金资助:云南省计算机技术应用重点实验室资助课题.

引用本文:

周冬明. 具有变时滞的细胞神经网络的全局指数稳定性[J]. 云南大学学报(自然科学版), 2002, 24(2): 93-95,100.

ZHOU Dong-ming. Globally Exponential Stability of Cellular Neural Networks with Time-varying Delays[J]. , 2002, 24(2): 93-95,100.

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编辑出版: 云南大学学报编辑部 (昆明市翠湖北路2号, 650091)

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