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Functional Analysis and Applications Group

Convergence of asymptotic systems of non-autonomous Hopfield neural network models with infinite distributed delays

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Abstract

In this seminar, we present some results about the global convergence of solutions of non-autonomous Hopfield neural network models with discrete time-varying delays, infinite distributed delays, and possible unbounded coefficient functions.

In some situations, with these results it is possible to characterize the dynamic of a Hopfield neural network model studying the dynamic of one of its asymptotic models.

Some examples are presented to compare our results with the previous one in the literature.

[José J. Oliveira, Convergence of Asymptotic Systems of Non-autonomous Neural Network Models with Infinite Distributed Delays, *Nonlinear Science* **27** (2017), 1463–1486.]

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