Global stability of Cohen-Grossberg neural network with both time-varying and continuous distributed

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Abstract

In this talk, a generalized neural network of Cohen-Grossberg type with both discrete time-varying and distributed unbounded delays is considered. Based on M-matrix theory, sufficient conditions are established to ensure the existence and global attractivity of an equilibrium point. The global exponential stability of the equilibrium is also addressed but for the model with bounded discrete time-varying delays. A comparison of results shows that these results generalize and improve some earlier publications.