Abstract

Existence and Learning of Teaching Network for Complex Recurrent Neural Network (CRNN) has been discussed in this piece of research. Issues related to the quaternionic neural network have been taken into consideration. In this paper by considering the special class of CRNN for which existence of attractive periodic solution in teaching network has been obtained.
and theoretical results has been proved, limit cycle, existence and uniqueness have also been discussed. This work has very much significant for several real world applications.

**Reference**


**Index Terms**

Computer Science

Artificial Intelligence

**Key words**

Complex Recurrent Neural Network

Limit Cycle
Learning Systems

Periodic Orbits