References

[1] V. S. Afraimovich, L. Y. Glebsky and V. I. Nekorkin, Stability of stationary states and toplogical spatial chaos in multidimensional lattice dynamical systems, *Random & Comput. dynam.*, 2 (1994), pp. 287–303.

[2] V. S. Afraimovich, and V. I. Nekorkin, Chaos of traveling waves in a discrete chain of diffusively coupled maps, *Internat. J. Bifur. and Chaos*, 4 (1994), pp. 631–637.

[3] J. C. Ban, S. S. Lin, C. H. Hsu, Spatial disorder of cellular neural networks-with biased term, *Internat. J. Bifur. and Chaos*, 12 (2002), pp. 525-534.

[4] J.-C. Ban, K.-P. Chien, S.-S. Lin, C.-H. Hsu, Spatial disorder of CNN-with asymmetric output function. *Internat. J. Bifur. and Chaos*, 11 (2001), pp. 2085-2095.

[5] S.-N. Chow, J. Mallet-Parent, and W. Shen, Traveling waves in lattice dynamical systems, *J. Diff. Eqns.* 149 (1998), pp. 248-291.

[6] G. Chen, S.-B. Hsu, and J. Zhou, Snap-back repellers as a cause of chaotic vibration of the wave equation with a van der Pol boundary condition and energy injection at the middle of the span, *J. Math. Phys.*, 39 (1998), pp. 6459–6489.

[7] L.-O. Chua,*CNN: A Paradigm for Complexity*, World Scientific, Signpore, 1998.

[8] L.-O. Chua, L. Yang, Cellular neural networks: Theory ,*IEEE Trans. Circuits Syst.*, 35 (1998a), pp. 1257–1272.

[9] L.-O. Chua, L. Yang, Cellular neural networks: Application ,*IEEE Trans. Circuits Syst.*, 35 (1998b), pp. 1273–1290.

[10] R. Devaney, *An Introduction to Chaotic Dynamical Systems*, 2nd ed., Addism-Wesley, New York, 1989.

[11] T. Erneux, and G. Nicolis, Propagation waves in discrete bistable reaction diffusion systems, *Physica D*, 67 (1993), pp. 273–244.

[12] G.Fáth, Propagation failure of traveling waves in discrete bistable medium, *Physica D*, 116 (1998), pp. 176–190.

[13] M. Hänggi, and L. O. Chua,*Simulation of RTD-based CNN cells*, Memorandum UCB/ERL M00/51, Electronic Research Laboratory, University of California, Berkeley,2000.

[14] C.-H. Hsu, and S.-S Lin, Existence and multiplicity of traveling waves in a lattice dynamical system, *J. Diff. Eqns.*, 164 (2000), pp. 431–450.

[15] C.-H. Hsu, S.-S Lin and W. Shen, Traveling waves in cellular neural networks, *Internat. J. Bifur. and Chaos*, 9 (1999), pp. 1307–1319.

[16] C.-H. Hsu, S.-Y Yang, On camel-like traveling wave solutions in cellular neural networks, *J. Diff. Eqns*, 196 (2004), pp. 481–514.

[17] H. Hudson, and B. Zinner, Existence of traveling waves for a generalized discrete Fisher's equation, *Comm. Appl. Nonlinear Anal.*, 1(1994), pp. 23–46.

[18] E. Isaacson, and H. Keller, *Analysis of Numerical MethodsI*, Wiley, New York 1966.

[19] M. Itoh, P. Julián, and L. O. Chua, RTD-based cellular neural networks with multiple steady states, *Internat. J. Bifur. and Chaos*, 11 (2001), pp. 2913–2959.

[20] J. Juang, S.-S. Lin, Cellular neural networks: mosaic pattern and spatial chaos, *SIAM J. Appl. Math.*,47 (2000), pp. 891–915.

21

[21] J. P. Keener, Propagation and its failure in coupled systems of discrete excitable cells, *SIAM J. Appl. Math.*, 47 (1987), pp. 556–572.

[22] T.-Y. Li, and J. A. Yorke, Period three implies Chaos, *Amer. Math. Monthly*, 82 (1975), pp. 985–992.

[23] W. Lin, J. Ruan, and WR. Zhao, On the mathematical clarification of the snap-back repeller in high-dimensional systems and chaos in a discrete neural network model, *Internat. J. Bifur. and Chaos*, 12 (2002), pp. 1129–1139.

[24] C. Li, and G. Chen. An improved version of the Marotto Theorem, *Chaos Solu. Frac.*, 18 (2003), pp. 69–77.

[25] F.-R. Marotto, Snap-back repellers imply Chaos in $\mathbb{R}^n$, *J. Math. Anal. Appl.*, 63 (1978), pp. 199–223.

[26] J. Mallet-Paret, The Fredhole alternative for functional differential equations of mixed type, *J. Dynam. Diff. Eqns.*, 11 (1999), pp. 1–48.

[27] J. Mallet-Paret, The golbal structure of traveling waves in spatial discrete dynamical systems, *J. Dynam. Diff. Eqns.*, 11 (1999), pp. 49–127.

[28] J. Ortega and W.C. Rheinbaldt, *Iterative Solution of Nonlinear Equations in Serveral Variables*, Academic Press, N.Y.,1970.

[29] C. Robinson, *Dynamical Systems: Stability, Symbolic Dynamics*, and Chaos, CRC press, Inc, 1995.

[30] P. Thiran,Dynamics and Self-organization of Locally coupled Neural Networks, *Presses Polytechniques et Universitaries Romandes, Lausanne, Switzerland* , (1997).

[31] J. Wu, and X. Zou, Asymptotial and periodic boundary value problems of mixed PDEs an wave solutions of lattice differential equations, *J. Diff. Eqns.*, 135 (1997), pp. 315–357.

[32] B. Zinner, Existence of traveling wavefronts for the discrete Nagumo equation, *J. Diff. Eqns.*, 96 (1992), pp. 1–27.

[33] B. Zinner, G. Harris, and W. Hudson, Traveling wavefronts for the discrete Fisher's equation, *J. Diff. Eqns.*, 105 (1993), pp. 46–62.

[34] B. Zou, and J. Wu, Local existence and stability of periodic traveling waves of lattice differential equations, *Candian Appl. Math. Quarterly.*, 6 (1998), pp. 397–418.