

Research Focus

研究领域

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|-------------|------------------------------------------------|
| 1、非线性科学 | 1. Nonlinear science |
| 2、混沌神经网络与应用 | 2. Chaotic neural networks and its application |
| 3、混沌控制与同步 | 3. Chaos controlling and synchronization |
| 4、神经动力学 | 4. Neurodynamics |
| 5、功能材料应用 | 5. Application of functional materials |

Representative Publications

代表出版物

1. Y. Li, P. Zhu, X. Xie, G. He*, K. Aihara, Learning-induced pattern classification in a chaotic neural network, Phys. Lett. A 376, 412 (2012).
2. X. Xie, X. Zhao, Y. Fang, Z. Cao, G. He*, Normalized linear variance decay dimension density and its application of dynamical complexity detection in physiological (fMRI) time series, Phys. Lett. A 375, 1789 (2011).
3. G. He, P. Zhu, J. Kuroiwa, K. Aihara, Controlling Chaos in a Chaotic Neural Network, In M. A. F. Sanjuán and C. Grebogi (Ed.), Recent Progress in Controlling Chaos, Singapore: World Scientific, Jan., 2010.
4. G. He, P. Zhu, H. Chen, X. Xie, Synchronization in a threshold coupled chaotic neuronal map, Acta Physica Sinica 59, 5307 (2010).
5. G. He, M. D. Shrimali, K. Aihara, Partial state feedback control of chaotic neural network and its application, Phys. Lett. A 371, 228(2007).



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