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教育经历：

1993.9-2002.7: 北京师范大学 系统理论专业，学士、博士

工作经历：

2002.9-2005.7：北京师范大学系统科学系，讲师

2005.8-2011.7：北京师范大学系统科学系，副教授

2011.8-　　　　北京师范大学系统科学系，教授

2007.8-2008.9：耶鲁大学医学院神经生物系，访问学者

研究兴趣：

神经系统的模拟和理论分析，特别是神经系统的高级认知功能的理论分析和计算机模拟。

社会任职：

无

教学情况：

非线性动力学，研究生学位课程

热力学与统计物理，本科生专业课程

研究课题：

风险感知的神经计算机制研究，国家自然科学基金委员会-面上项目(31271169)，RMB 80.00

Gamma振荡中神经元相位关系的机制研究，国家自然科学基金委员会-面上项目(60974075)，RMB 30.00

大脑皮层功能分区的自组织机制研究，国家自然科学基金委员会-面上项目(70471080)，RMB 14.00

记忆和记忆障碍的神经环路模型研究,国家自然科学基金委员会-重大研究计划培育项目(91132702),RMB 80.00 (吴思主持，本人参加)

代表论著：

1. Hongzhi You; *DA HUI WANG, 2013/5/10, Dynamics of Multiple-choice Decision Making, Neural Computation,

(SCI, IF=1.884(2011))

2. *Dominic Standage; Hongzhi You; *DA HUI WANG; Michael C. Dorris, 2013/4/4, Trading speed and accuracy by coding time: a coupled-circuit cortical model, PLoS Computational Biology, 9(4), (SCI, IF=5.215(2011))

3. ZIQIANG WEI; *XIAO JING WANG; *DA HUI WANG, 2012/8/15, From Distributed Resources to Limited Slots in Multiple-Item Working Memory: A Spiking Network Model with Normalization, Journal of Neuroscience, 32(33), pp 11228-11240 (SCI, IF=7.115(2011), Citation=7)

4. Hongzhi You; Yan Meng; Di Huan; *Da-Hui Wang, 2011/10, The neural dynamics for hysteresis in visual perception, NEUROCOMPUTING, 74(17), pp 3502-3508 (SCI, IF=1.580(2011), Citation=1)

5. Gan, Xiaocong; Wang, Dahui; *Han, Zhangang, 2011/3/1, A growth model that generates an n-tuple Zipf law, PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, 390(5), pp 792-800 (SCI, IF=1.373(2011), Citation=1)

6. *Standage D; You H.; Wang D-H; Dorris MC, 2011/2/11, Gain modulation by an urgency signal controls the speed-accuracy trade-off in a network model of a cortical decision circuit, Frontiers in Computational Neuroscience, 5(7), (SCI, IF=2.147(2011), Citation=6)

7. Jiawei Chen; Liujun Chen; Yan Liu; Dahui Wang; Yougui Wang, 2011/10/15, Chinese family name distributions in multiple scales, PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, 390(21-22), pp 3938-3943 (SCI, IF=1.3730(2011))

8. 孟艳; 张丹; 王大辉, 2011, 神经元簇状放电锋电位数的研究, 北京师范大学学报(自然科学版), (01), pp 104-107

9. 唐莲; 王大辉, 2011, 关于Zipf-Mandelbrot律中参数ρ的一种解释, 北京师范大学学报(自然科学版), (01), pp 97-100

10. Lisheng Chen; Erbo Zhao; Dahui Wang; Zhangang Han; Shouwen Zhang; Cuiping Xu, 2010, Feature extraction of EEG signals from epilepsy patients based on Gabor Transform and EMD Decomposition, 2010 Sixth International Conference on Natural Computation (ICNC 2010), 10/8/2010-12/8/2010, pp 1243-1247, China

11. Chen, Liujun; Chen, Weiting; Di, Zengru; *Wang, Dahui, 6/6/2009, CRITICAL PHENOMENON INDUCED BY NOISE IN THE BTW SANDPILE, Fractals-Complex Geometry Patterns and Scaling in Nature and Society, 17(2), pp 227-232 (SCI, IF=0.4480(2011))

12. Wei Ziqiang; Hong Yiguang; *Wang Dahui, 15/4/2009, The phase diagram and the pathway of phase transitions for traffic flow in a circular one-lane roadway, Physica A: Statistical Mechanics and its Applications, 388(8), pp 1665-1672 (SCI, IF=1.3730(2011), Citation=4)

13. Chai, Lei; Wang, Dahui; Chen, Jiawei; Li, Menghui; Di, Zengru, 2008/2, Cluster splitting transition in a Markov chain model for labor division, International Journal of Bifurcation and Chaos, 18(2), pp 593-598 (SCI, IF=0.8700(2008 SCI))

14. *Dahui, Wang; Ziqiang, Wei; Ying, Fan, 7/2007, Hysteresis phenomena of the intelligent driver model for traffic flow, Physical Review E - Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics, 76, (SCI, IF=2.5080(2008), Citation=2)

15. Li, Menghui; Fan, Ying; Wang, Dahui; Li, Daqing; Wu, Jinshan; Di, Zengru, 14/5/2007, Small-world effect induced by weight randomization on regular networks, PHYSICS LETTERS A, 364(6), pp 488-493 (SCI, IF=1.6320(2011), Citation=5)

16. Gao, Liang; Zhao, Jinshan; Di, Zengru; *Wang, Dahui, 15/3/2007, Asymmetry between odd and even node weight in complex networks, Physica A: Statistical Mechanics and its Applications, 376, pp 687-691 (SCI, IF=1.3730(2011), Citation=1)

17. Li, Menghui; Wu, Jinshan; Wang, Dahui; Zhou, Tao; Di, Zengru; Fan, Ying, 2007/2/15, Evolving model of weighted networks inspired by scientific collaboration networks, Physica A: Statistical Mechanics and its Applications, 375(1), pp 355-364 (SCI, IF=1.3730(2011), Citation=25)

18. 李梦辉; 高亮; 樊瑛; 王大辉; 吴金闪; 狄增如; Menghui Li, Liang Gao, Ying Fan, Dahui Wang, Jinsh, 2006/11/1, 基于局域连接机制涌现的偏好选择, 2006全国复杂网络学术会议, pp 112-113, 中国湖北武汉

19. Li, MH; Wang, DH; Fan, Y; Di, ZR; Wu, JS, 2006/5/25, Modelling weighted networks using connection count, New

Journal of Physics, 8, (SCI, IF=4.1770(2011), Citation=8)

20. Wang, DH; Zhou, L; Di, ZR, 1/5/2006, Bipartite producer-consumer networks and the size distribution of firms, Physica A: Statistical Mechanics and its Applications, 363(2), pp 359-366 (SCI, IF=1.3730(2011), Citation=12)

21. *Wang, DH; Chen, WT; Yuan, Q; Di, ZR, 2006/3, Static statistical approach to the BTW sandpile model, Fractals-Complex Geometry Patterns and Scaling in Nature and Society, 14(1), pp 55-61 (SCI, IF=0.4480(2011), Citation=1)

22. 王大辉；王永哲；袁强，2006，哈肯灯塔模型的一个改进，北京师范大学学报(自然科学版), (05), pp 548-550

23. *Wang, DH; Li, MH; Di, ZR, 15/12/2005, True reason for Zipf's law in language, Physica A: Statistical Mechanics and its Applications, 358(2-4), pp 545-550 (SCI, IF=1.3730(2011), Citation=9)

24. 王大辉；李红刚；Wang Dahui Li Honggang(Department of System Scienc, 2005/10/30, R&D投资与经济增长, 北京师范大学学报(自然科学版), (05), pp 547-550

25. 赵金山；狄增如；王大辉；ZHAO Jin-shan~a,DI Zeng-ru~(a,b),WANG Da-hui~(a,b); b.Center for Complexity Research,Beijing Normal Un, 2005/4/30, 北京市公共汽车交通网络几何性质的实证研究，复杂系统与复杂性科学, (02), pp 45-48

26. Zhou, L; Liu, N; Di, ZR; *Wang, DH, 2005, Simulation of cortical functional area formation based on synaptic plasticity, International Conference on Neural Networks and Brain (ICNN&B 2005), 13/10/2005-15/10/2005, pp 1921-1924, ChinaBeijing, PEOPLES R CHINA

27. Di, ZR; Wang, DH; Cao, ZJ; Qu, ZL, 2005, Collective dynamics of excitable system in heterogeneous media, International Conference on Neural Networks and Brain (ICNN&B 2005), 13/10/2005-15/10/2005, pp 1900-1905, ChinaBeijing, PEOPLES R CHINA

28. *Honggang Li; Dahui Wang; Xiangguang Chen, 1/10/2004, Job match and income distribution, Physica A: Statistical Mechanics and its Applications, 341, pp 569-574 (SCI, IF=1.3730(2011))

29. 陈六君；王大辉；方福康；Chen Liujun  1) Wang Dahui  1) Fang Fukang; 2)Institute of Nonequilibrium System: Beijing Norm, 2004/8/30, 中国污染变化的主要因素——分解模型与实证分析，北京师范大学学报(自然科学版), (04), pp 561-568

30. 陈六君；王大辉；方福康；CHEN Liu-jun~(1), WANG Da-hui~(1), FANG Fu-kang~(2; Beijing Normal University, Beijing 100875, China; 2. Institute of Nonequilibrium System, Beijing Nor, 2004/8/25, 环境系统的临界性分析，系统工程理论与实践, (08), pp 12-17

31. *王大辉；WANG Da-hui (Department of Systems Science, School, 2004/7/11, 关于复杂系统宏观与微观描述的一个结论，复杂系统与复杂性科学, (03), pp 76-81

32. 陈清华；樊瑛；王大辉；Chen Qinghua  Fan Ying  Wang Dahui  (Department o, 2002/8/30, 一个"J"曲线动力学模型，北京师范大学学报(自然科学版), (04), pp 470-473

33. 王大辉；葛新元；Wang Dahui Department of system science, Beijing n, 2001/11/1, 基于个体相互作用的金融与经济共同演化的模型结构，CCAST"复杂性问题"研讨会, pp 249-257, 中国北京

34. 葛新元；王大辉；袁强；方福康；GE Xin yuan 1,WANG Da hui 2,YUAN Qiang 2,FANG; 2.Department of System Science, Beijing Normal Uni, 2001/10/30, 多部门经济动力学模型及其合理性分析，系统工程学报, (05), pp 397-401

35. 王大辉；方福康，2001/1/1，一个包含金融因素的宏观经济模型框架，CCAST"优化方法、经济物理和风险管理"研讨会, pp 151-165, 中国北京

36. 葛新元；王大辉；袁强；方福康；Ge Xinyuan  1)  Wang Dahui  2)  Yuan Qi, 2000/10/30, 经济结构失衡与经济衰退的多部门动力学模型，北京师范大学学报(自然科学版), (05), pp 634-638

37. 葛新元；王大辉；袁强；方福康；Ge Xinyuan  1)  Wang Dahui  2)  Yuan Qian; Beijing Normal University, 100875, Beijing, China), 2000/2/29, 中国经济结构变化对经济增长的贡献的计量分析，北京师范大学学报(自然科学版), (01), pp 43-48

38. 王大辉；方福康；袁强；Wang Dahui, Yuan Qiang; Fang Fukang(Department of Physics,Institute of Non, 1999/3/30,