

科研简历

个人信息

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简介

王勇是中国科学院(CAS) 数学与系统科学研究院(AMSS) 应用数学所副研究员。他在1999 年从内蒙古大学数学系的数学物理专业本科学位, 在2002 年从大连理工大学应用数学系获得运筹学与控制论硕士学位, 2005 年从中国科学院数学与系统科学研究院获得运筹学与控制论专业的理学博士学位。在进入数学与系统科学研究院工作之前, 他曾在国家信息中心、日本大阪产业大学电子情报通信系从事过博士后研究工作。并于2007 年9 月到2008 年9 月在波士顿大学生物信息学计划从事访问研究。他目前的研究兴趣是最优化理论与算法、生物信息学和系统生物学。

教育情况

2002 ~ 2005	博士	运筹学与控制论, 中国科学院数学与系统科学研究院应用数学所. 指导教师: 章祥荪研究员
1999 ~ 2002	硕士	运筹学与控制论, 大连理工大学应用数学系. 指导教师: 冯恩民教授
1995 ~ 1999	本科	数学物理, 内蒙古大学数学系. 指导教师: 戎卫东教授

博士论文指导教师: 章祥荪研究员

博士论文题目: 基于人工神经网络的蛋白质结构预测与分类研究

研究经历

2010. 10 ~ 目前 特别研究员, 日本产业技术综合研究所(AIST)计算生物研究中心(CBRC).
2010. 3 ~ 目前 副研究员, 中国科学院数学与系统科学研究院应用数学研究所.
2007. 9 ~ 2008. 9, 访问学者, 美国波士顿大学生物信息学研究中心.
2007. 6 ~ 2010. 3 助理研究员, 中国科学院数学与系统科学研究院应用数学研究所.
2005. 6 ~ 2007. 6 日本文部省奖学金资助博士后, 日本大阪市大阪产业大学电子情报通信系.
- 2005.5 ~ 2005.10 博士后, 国家信息中心.

参加项目

- 运筹学方法在若干生物信息学重要问题研究中的应用
2005 ~ 2007
批准号. 10471141
中国国家自然科学基金委员会(NSFC)
- 基于复杂系统观点和方法论的电子政务管理研究
2005 ~ 2007
批准号. 2005038334
中国国家博士后基金委员会
- 生物信息学中的单体型推断模型与算法研究
2006 ~ 2008
批准号. 60503004
中国国家自然科学基金委员会(NSFC)
- 生物信息学中的若干重要问题研究
2006 ~ 2008
中国科学院基础局
- 基于三维结构和高通量数据的蛋白质功能标注与预测研究
2007 ~ 2009
NSFC-JSPS 合作研究项目, 批准号. 10711140116
国家自然科学基金委员会(NSFC) 日本学术振兴会(JSPS)
- 商业银行数据挖掘网格系统的研究与应用
2006 ~ 2008
批准号. 70602034
中国国家自然科学基金委员会(NSFC)
- 复杂网络中模块结构探测的理论与算法研究
2007 ~ 2009
批准号. 10701080
中国国家自然科学基金委员会(NSFC)
- 基因调控网络重建中的优化模型和算法研究
2009 ~ 2011
批准号. 10801131
中国国家自然科学基金委员会(NSFC)
- 最优化方法在信息技术中的应用
2009 ~ 2011
批准号. kjcx-yw-s7
中国科学院创新方向性项目
- 生物分子网络中功能模块探测问题的数学模型及算法
2009 ~ 2011
批准号. 1092011
北京市自然科学基金资助项目
- 基于条件随机场的生物信息学研究
2010 ~ 2012
批准号. 60970091
中国国家自然科学基金委员会(NSFC)

研究兴趣

- 最优化理论与算法
- 生物信息学
- 系统生物学
- 机器学习
- 运筹学理论与应用

发表物— 著作或章节

1. **Computational Systems Biology.** Luonan Chen, Xiang-Sun Zhang, Bairong Shen, Ling-Yun Wu, and **Yong Wang** (eds.). Lecture Notes in Operations Research 13, World Publishing Corporation, Beijing, 2010.
2. **Operations Research and its Applications.** Xiang-Sun Zhang, De-Gang Liu, Ling-Yun Wu, and **Yong Wang** (eds.). Lecture Notes in Operations Research 12, World Publishing Corporation, Beijing, 2010.
3. **Yong Wang**, Rui-Sheng Wang, Trupti Joshi, Dong Xu, Xiang-Sun Zhang, Luonan Chen, and Yu Xia. **A Linear Programming Framework for Inferring Gene Regulatory Networks by Integrating Heterogeneous Data**, Computational Methodologies in Gene Regulatory Networks, Sanjoy Das, Doina Caragea, W. H. Hsu, Stephen M. Welch (eds.), IGI Global, 2009.
4. **Optimization and Systems Biology.** Xiang-Sun Zhang, Luonan Chen, Ling-Yun Wu and **Yong Wang** (eds.). Lecture Notes in Operations Research 11, World Publishing Corporation, Beijing, 2009.
5. **Optimization and Systems Biology.** Xiang-Sun Zhang, Luonan Chen, Ling-Yun Wu, and **Yong Wang** (eds.). Lecture Notes in Operations Research 9, Proceedings of the Second International Symposium of Optimization and Systems Biology, Lijiang, China, October 31– November 2, 2008. World Publishing Corporation, Beijing, 2008. (ISTP)
6. **Operations Research and its Applications.** Xiang-Sun Zhang, De-Gang Liu, and **Yong Wang** (eds.). Lecture Notes in Operations Research 8, Proceedings of the Seventh International Symposium of Operations Research and its Application, Lijiang, China, October 31– November 2, 2008. World Publishing Corporation, Beijing, 2008. (ISTP)

7. **Optimization and Systems Biology**, Lecture Notes in Operations Research 7 Edited by Xiang-Sun Zhang, Luonan Chen, Ling-Yun Wu, and **Yong Wang**. Proceedings of the First International Symposium of Optimization and Systems Biology, Beijing, China, 8-10 August, 2007. World Publishing Corporation, Beijing, 2007. (ISTP)
8. **Operations Research 50 周年纪念特刊中文译本** 主编: 章祥荪, 刘德刚, 章璟, 吴凌云, **王勇**. 运筹与管理, 增刊, Vol. 13, 2004.

发表物— 期刊论文

1. Ruoying Chen, Zhiwang Zhang, Di Wu, Peng Zhang, Xinyang Zhang, **Yong Wang**, and Yong Shi **Prediction of protein interaction hot spots using rough set-based multiple criteria linear programming**, *Journal of Theoretical Biology*, Vol. 269, pp. 174–180, 2011.
2. 陈兴, **王勇**, 吴凌云, 闫桂英. **多阶段多目标多部门应急决策模型**, *系统工程理论与实践*, Vol. 30, No. 11, pp. 1977–1985, 2010.
3. Xiang-Sun Zhang, Zhenping Li, Rui-Sheng Wang, **Yong Wang**. **A combinatorial model and algorithm for globally searching community structure in complex networks**. *Journal of Combinatorial Optimization*, in press,
4. Zhi-Ping Liu, **Yong Wang**. Xiang-Sun Zhang, Luonan Chen. **Network-based analysis of complex diseases**, *IET Systems Biology*, in press.
5. Zhi-Ping Liu, Ling-Yun Wu, **Yong Wang**, Xiang-Sun Zhang, and Luonan Chen. **Prediction of protein-RNA binding sites by a random forest method with combined features**. *Bioinformatics*, Vol. 26, No. 3, pp. 1616-1622, 2010.
6. **Yong Wang**, Eric Franzosa, Xiang-Sun Zhang, and Yu Xia. **Protein evolution in yeast transcription factor subnetworks**, *Nucleic Acids Research*, Vol. 38, No. 18, pp. 5959-5969, 2010.
7. **Yong Wang**, Xiang-Sun Zhang, and Luonan Chen. **Optimization meets systems biology**. *BMC Systems Biology*, Vol. 4, Suppl 2, S1, 2010.
8. Zhi-Ping Liu, **Yong Wang**. Xiang-Sun Zhang, Luonan Chen. **Identifying dysfunctional crosstalk of pathways in various regions of Alzheimer's disease brains**, *BMC Systems Biology*, Vol. 4, Suppl 2, S11, 2010.
9. Luwen Zhang, Mei Xiao, **Yong Wang**, Wu Zhang. **Reverse engineering large-scale genetic networks: synthetic versus real data** *Journal of Genetics*, Vol. 89, No. 1, 2010.

10. Yongcui Wang, Zhixia Yang, **Yong Wang**, Nai-Yang Deng. **Computationally probing drug-protein interactions via support vector machine** *Letters In Drug Design & Discovery*, Vol. 7, No. 5, pp. 370–378(9), 2010.
11. Lin Wang, Ling-Yun Wu, **Yong Wang**, Xiang-Sun Zhang, Luonan Chen. **SANA: an algorithm for sequential and non-sequential protein structure alignment.** *Amino Acid*, Vol. 39, No.2, pp.417-425, 2010.
12. Tingting Gao, Zhixia Yang, **Yong Wang**, Ling Jing. **Identifying translation initiation sites in prokaryotes using support vector machine.** *Journal of Theoretical Biology*, Vol. 262, No. 4, pp. 644–649, 2010.
13. Jiguang Wang, Shihua Zhang, **Yong Wang**, Luonan Chen, and Xiang-Sun Zhang. **Disease-aging network reveals significant roles of aging genes in connecting genetic diseases.** *PLoS Computational Biology*, 9(5), e1000521, 2009.
14. Xiang-Sun Zhang, Rui-Sheng Wang, **Yong Wang**, Ji-Guang Wang, Yu-Qing Qiu, Lin Wang, and Luonan Chen. **Modularity optimization in community detection of complex networks.** *Europhysics Letters*, 87, 38002, 2009.
15. **Yong Wang**, Xiang-Sun Zhang, and Yu Xia. **Predicting eukaryotic transcriptional cooperativity by Bayesian network integration of genome-wide data.** *Nucleic Acids Research*. 37: 5943-5958, 2009.
16. **Yong Wang**, Xiang-Sun Zhang, and Luonan Chen. **A network biology study on circadian rhythm by integrating various omics data.** *OMICS: A Journal of Integrative Biology*, Vol 13, No.4, pp. 313-324, 2009.
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20. Zhi-Ping Liu, Ling-Yun Wu, **Yong Wang**, Xiang-Sun Zhang, and Luonan Chen. **Bridging protein local structures and protein functions.** *Amino Acids*, Vol. 35(3): pp. 627–650, 2008.
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Software: AGPS (<http://intelligent.eic.osaka-sandai.ac.jp/chenen/agps.htm>)
23. Xing-Ming Zhao, **Yong Wang**, Luonan Chen, and Kazuyuki Aihara. **Protein domain annotation with integration of heterogeneous information sources.** *Proteins: Structure, Function, and Bioinformatics*, Vol. 72(1), pp. 461–473, 2008.
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25. Zhi-Ping Liu, Ling-Yun Wu, **Yong Wang**, Luonan Chen, and Xiang-Sun Zhang. **Predicting gene ontology functions from protein’s regional surface structures.** *BMC Bioinformatics*, 8:475, 2007.
26. Zhi-Ping Liu, Ling-Yun Wu, **Yong Wang**, Xiang-Sun Zhang, and Luonan Chen, **Protein cavity clustering based on community structure of pocket similarity network,** *International Journal of Bioinformatics Research and Applications*, Vol. 4, No. 4, pp. 445–460, 2008.
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Software: CDInfer (<http://intelligent.eic.osaka-sandai.ac.jp/chenen/CDInfer.htm>)
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Software: TRNinfer (<http://intelligent.eic.osaka-sandai.ac.jp/chenen/TRNinfer.htm>)

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Software: MNAligner (<http://zhangroup.aporc.org/bioinfo/mnaligner/>)
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35. Yong Shi, Xinyang Zhang, Jia Wan, **Yong Wang**, Wei Yin, Zhiwei Cao, and Yajun Guo. **Predicting the distance between antibody’s interface residue and antigen and antigen class by support vector machine.** *Neural Comput & Applic*, Vol. **16**, No. 4-5, pp. 481–490, 2007.
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Software: GRNInfer (<http://zhangroup.aporc.org/bioinfo/grninfer/>)
37. Luonan Chen, Ling-Yun Wu, **Yong Wang**, Shihua Zhang and Xiang-Sun Zhang. **Revealing divergent evolution, identifying circular permutations and detecting active-sites by protein structure comparison.** *BMC Structural Biology*, 6:18, 2006.
Software: SAMO (<http://zhangroup.aporc.org/bioinfo/samo/>)
38. Luonan Chen, Ling-Yun Wu, **Yong Wang**, and Xiang-Sun Zhang. **Inferring protein interactions from experimental data by association probabilistic method.**

- Proteins: Structure, Function, and Bioinformatics*, Vol. **62**, pp. 833–837, 2006.
Software: APM (<http://zhangroup.aporc.org/bioinfo/apm/>)
39. Yu-zhen Guo, En-min Feng, and **Yong Wang**. **Exploration of two-dimensional HP lattice model by combining local search with elastic net algorithm**, *J. Chem. Phys.*, Vol. 125, 154102, 2006.
 40. **Yong Wang**, Ling-Yun Wu, Xiang-Sun Zhang, and Luonan Chen. **Exploring the classification of protein structures on geometric patterns by neural networks**. *International Journal of Computational Intelligence Research*, Vol. **2**, No. 1, pp. 105–109, 2006.
 41. Ju-Liang Zhang, **Yong Wang**, and Xiang-Sun Zhang. **Superlinearly convergent trust region method without assumption of positive definite Hessian**. *Journal of Optimization Theory and Application*, Vol. **129**, No. 1, 2006.
 42. 香勇, 彭春, 潘建军, **王勇**, 施克仁. 混频相控阵聚焦特征的研究. 压电与声光, Vol. **28**, No.1, pp. 113–116, 2006.
 43. 詹钟炜, **王勇**, 吴凌云, 章祥荪. 政府网站评估 DEA 模型. 运筹与管理, Vol. 15, No. 4, pp. 97–102, 2006.
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 46. Xiang-Sun Zhang, **Yong Wang**, Zhong-Wei Zhan, and Ling-Yun Wu. **Exploring protein's optimal HP configurations by self-organizing**. *Journal of Bioinformatics and Computational Biology*, Vol. **3**, No. 2, pp. 305–320, 2005.
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 48. 戴家权, **王勇**, 冯恩民. 油气资源勘探与开发的综合优化模型及算法, 工程数学学报, Vol. 21, No. 3, pp. 307–311, 2004.
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50. Ju-Liang Zhang, **Yong Wang**. **A new trust region method for nonlinear equations.** *Mathematical Method of operational research*, Vol. **58**, No. 3, pp. 283–298, 2003.
51. 贺晓霞, 高钟毓, **王勇**. 图像处理技术在球形转子质量不平衡测量中的应用, 中国图像图形学报, Vol. 8 (A), spec. 2003.
52. 冯恩民, **王勇**. 三维地史数值模拟及其系统辨识, 高校应用数学学报A辑, Vol.18, No.2, 171–178, 2003.
53. 戴家权, **王勇**, 冯恩民, 金之钧, 庞雄奇. 深盆气分布范围预测的优化模型、算法及应用, 运筹与管理, Vol.12, No.3, pp. 1–4, 2003.
54. 戴家权, **王勇**, 冯恩民, 金之钧, 庞雄奇. 深盆气成藏机理及动态分布的定量研究, 石油学报, Vol. 24, No. 1, pp. 39–43, 2003.
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发表物— 会议论文

1. Xianwen Ren, **Yong Wang**, Jiguang Wang, Xiang-Sun Zhang. **An Optimization Model for Fuzzy Binary Clustering.** *Lecture Notes in Operations Research*, 13, pp. 422–432, World Publishing Corporation, Beijing, 2010.
2. Jiguang Wang, **Yong Wang**, Xianwen Ren, Wei Guo, Luonan Chen. **Uncover the Transient Transcriptional Regulations by a Novel Sliding Window Correlation Strategy.** *Lecture Notes in Operations Research*, 12, pp. 235–242, World Publishing Corporation, Beijing, 2010.
3. **Yong Wang**, Xiang-Sun Zhang, Katsuhisa Horimoto, Luonan Chen. **System Identification Models for Gene Regulation System.** *Proceedings of The 29th Chinese Control Conference (CCC)*, pp. 6239–6244, Beijing, 2010.
4. Ji-Guang Wang, Lin Wang, Yu-Qing Qiu, **Yong Wang**, and Xiang-Sun Zhang, **A Constrained Optimization Method for Community Detection.** *Optimization and Systems Biology, Lecture Notes in Operations Research*, 11, pp. 142–150, World Publishing Corporation, Beijing, 2009.
5. Biao-Bin Jiang, Ji-Guang Wang, Jing-Fa Xiao, and **Yong Wang**. **Gene Prioritization for Type 2 Diabetes in Tissue-specific Protein Interaction Networks.**

- Optimization and Systems Biology, Lecture Notes in Operations Research, 11, pp. 319–328, World Publishing Corporation, Beijing, 2009.
6. Zhi-Ping Liu, **Yong Wang**, Tieqiao Wen, Xiang-Sun Zhang, Weiming Xia, and Luonan Chen. **Dynamically dysfunctional protein interactions in the development of Alzheimer's disease**. 2009 IEEE International Conference on Systems, Man, and Cybernetics.
 7. **Yong Wang** and Yu Xia, **Condition specific subnetwork identification using an optimization model**, Optimization and Systems Biology, Lecture Notes in Operations Research, 9, pp. 329–336, World Publishing Corporation, Beijing, 2008.
 8. Rui-Sheng Wang, **Yong Wang**, Xiang-Sun Zhang, and Luonan Chen, **Detecting community structure in complex networks by optimal rearrangement clustering**, PAKDD 2007 workshop on Data Mining in Biomedical Applications, Lecture Notes in Artificial Intelligence, 4819, pp. 119–130, 2007.
 9. Zhi-Ping Liu, Ling-Yun Wu, **Yong Wang**, Xiang-Sun Zhang, and Luonan Chen. **An approach for clustering protein pockets into similar groups**. Optimization and Systems Biology, Lecture Notes in Operations Research, 7, pp. 204–212, World Publishing Corporation, Beijing, 2007.
 10. **Yong Wang**, Rui-Sheng Wang, Xiang-Sun Zhang, and Luonan Chen. **Establishing protein functional linkage in a systematic way**, Optimization and Systems Biology, Lecture Notes in Operations Research, 7, pp. 75–88, World Publishing Corporation, Beijing, 2007.
 11. Zikai Wu, **Yong Wang**, Enmin Feng, and Luonan Chen, **Assessing distance measures for protein structure comparison**. Optimization and Systems Biology, Lecture Notes in Operations Research, 7, pp. 324–331, World Publishing Corporation, Beijing, 2007.
 12. Zhenping Li, Rui-Sheng Wang, and **Yong Wang**. **A quadratic programming model for political districting problem**. Optimization and Systems Biology, Lecture Notes in Operations Research, 7, pp. 427–435, World Publishing Corporation, Beijing, 2007.
 13. **Yong Wang**, Zhen-Ping Li, Xiang-Sun Zhang, and Luonan Chen. **3D Structural Motif finding in protein structures by network alignment** D. -S. Huang (Eds.): WICB2006, 2006.
 14. **Yong Wang**, Trupti Joshi, Xiang-Sun. Zhang, Dong Xu and Luonan Chen. **Supervised inference of gene regulatory networks by linear programming**. D. -S.

- Huang, K. Li and G. W. Irwin (Eds.): ICIC2006, Lecture Notes in Bioinformatics, Vol. 4115, pp. 551-561, 2006.
15. **Yong Wang**, Ling-Yun Wu, Xiang-Sun Zhang, and Luonan Chen. **Protein structure comparison by both structure and sequence data**. IFMBE Proceedings, Vol. 14, Kim, Sun I.; Suh, Tae Suk (Eds.) 172–175, Springer-Verlag, Berlin, 2006.
 16. **Yong Wang**, Ling-Yun Wu, Xiang-Sun Zhang, and Luonan Chen. **Automatic classification of protein structures based on convex hull representation by integrated neural network**. Lecture Notes in Computer Science, Vol. 3959 . pp. 505–514, Springer-Verlag, 2006.
 17. Zi-Kai Wu, **Yong Wang**, En-Min Feng, and Jin-Cheng Zhao. **Protein structure comparison based on a measure of information discrepancy**. Lecture Notes in Computer Science, Vol. 3959 . pp. 515–527, Springer-Verlag, 2006.
 18. Zhenping Li, **Yong Wang**, Shihua Zhang, Xiang-Sun Zhang and Luonan Chen. **Alignment of protein interaction networks by integer quadratic programming**. Proceedings of the 28th IEEE EMBS Annual International Conference New York City, USA, Aug 30-Sept 3, pp. 5527–5530, 2006.
 19. Xiang-Sun Zhang, Zhong-Wei Zhan, **Yong Wang**, and Ling-Yun Wu. **An attempt to explore the similarity of two proteins by their surface shapes**. Operations Research and Its Applications, Lecture Notes in Operations Research, 5, pp. 276-284, World Publishing Corporation, Beijing, 2005.
 20. Ji-Hong Zhang, Ling-Yun Wu, **Yong Wang**, Zhen-Ping Li, and Xiang-Sun Zhang. **A statistical method based on Markov chain for optimal reconstruction of haplotype from genotype data with SNP**. Symposium of 7th Academic Communication Meeting of Operations Research of China. Proceedings of ORSC 2004, pp. 1268–1278, Global-Link Publishing Company, 2004.
 21. 詹钟炜, **王勇**, 吴凌云, 章祥荪. **基于DEA的电子政务评估研究**. 中国运筹学会第七届学术交流会论文集, 348–354, Global-Link Publishing Company, 2004.
 22. 冯恩民, 张军, 王锡禄, **王勇**, **换热网络综合问题中的布局优化**, 中国运筹学会第六届学术交流会论文集, Global-Link Publishing Company, 2004.

科研活动

1. Chair of Invitation Session on Systems Biology, The 30th Chinese Control Conference (CCC2011), Yantai, China, July 22–24, 2011.

2. Program Committee, The Seventh International Conference on Intelligent Computing (ICIC2011) on August 11–14, 2011 in Zhengzhou, China.
3. Program Committee, Workshop on Computational Proteomics in BIBM2010, HongKong, China, Dec. 18–21, 2010.
4. Program Committee, Workshop on Integrative Data Analysis in Systems Biology in BIBM2010, HongKong, China, Dec. 18–21, 2010.
5. 邀请报告, 北京生命科学论坛第八次会议, 数学与生物学交叉应用研究学术研讨会, 北京, 中国, 2010年7月16日.
6. Organizing Committee, The 9th International Symposium on Operations Research and Its Applications (ISORA 2010), Chengdu, China, Aug. 20-24, 2010.
7. Organizing Committee, The 4th International Conference on Computational Systems Biology (ISB 2010), Suzhou, China, Sept. 9–11, 2010.
8. Co-Chair of Invitation Session on Systems Biology, The 29th Chinese Control Conference(CCC2010), Beijing, China, July 29–31, 2010.
9. 邀请报告, 第二届反演问题计算方法及其应用国际会议, 北京, 中国, 2010年7月12日.
10. Program Committee, IEEE International Conference on Bioinformatics & Biomedicine (BIBM), HongKong, China, Dec. 19–22, 2010.
11. Local Organizing Committee, The 21th International Conference on Genome Informatics(GIW2010), December 16–18, 2010, Hangzhou, China.
12. invited speaker, Kavil Institute for Theoretical Physics China program on Emergent behaviour of biomolecular ensembles and networks, July 2010, Beijing, China
13. Organizing Committee, Trilateral Symposium on Systems and Synthetic Biology 2010, October 2–4, Tokyo, Japan, 2010.
14. Invited visitor, Department of Mathematics, The Chinese University of Hong Kong, 18–25 April 2010, HongKong, China.
15. Invited speaker, Sino-German Workshop on Computational systems biology approaches for cancer research and biomarker discovery, 11–15 January 2010, Hangzhou, China
16. Invited speaker, Workshop on biological network in Computational Biology Research Center of AIST, 10-11 December 2009, Tokyo, Japan

17. Program Committee, The 2010 Third International Conference on Life System Modeling and Simulation (LSMS), Shanghai, China, Sept. 17–20, 2010.
18. Program Committee, The 2009 International Conference on Optimization and Systems Biology (OSB), Zhangjiajie, China, Sept. 20–22, 2009.
19. Invited Speaker, Trilateral Symposium on Systems and Synthetic Biology 2009, August 13–15, Seoul, Korea, 2009.
20. Visiting Osaka University, Kyoto University, and Osaka Sangyo University. July 5–July 18, 2009
21. Invited Speaker, 复杂网络、生物信息学及其他科学问题研讨会, 2009年6月25日, 北京, 2008.
22. Invited Speaker, A network biology study on circadian rhythm, Westlake International conference on Personalized Medicine, May 29, 2009, HangZhou, China.
23. Program Committee, The 2009 International Conference on Intelligent Computing (ICIC), Ulsan, Korea, September 16–19, 2009.
24. Poster, Recovering Gene Regulations by Optimization Model, Asia Pacific Bioinformatics Conference (APBC2009), Beijing, China.
25. Invited Speaker, 第八届系统控制前沿科学问题研讨会—系统生物学, 2008年12月12–13日, 北京, 2008.
26. Visiting Osaka University, Kyoto University, and Osaka Sangyo University. November 17– December 7, 2008
27. Program Committee, The 2008 International Conference on Optimization and Systems Biology (OSB), Lijiang, China, October 31–November 3, 2008.
28. Program Committee, The 2008 International Conference on Intelligent Computing (ICIC), Shanghai, China, September 15–18, 2008.
29. Invited Speaker, Biological Network Comparison: Problems and Challenges, Systems Biology Summer School of Shanghai University, Aug. 10, 2007, Shanghai, China.
30. Invited Speaker, Establishing protein functional linkage in a systematic way, Systems biology workshop, Mar. 10, 2007, Suzhou, China.
31. Program Committee, The 2007 International Conference on Optimization and Systems Biology (OSB), Beijing, China, August 7–9, 2007.

32. Program Committee, The 2007 International Conference on Intelligent Computing (ICIC), Qingdao, China, August 21–24, 2007.
33. Program Committee, The 2nd International Conference on Life System Modeling and Simulation (LSMS), Shanghai, China, September 14–17, 2007.
34. Poster, Whole-Genome Functional Linkage Network Construction in the Domain Level by Probabilistic Model, GIW2006, Yokohama, Japan.
35. Invited Speaker, Inferring gene regulatory network form multiple datasets, WICB2006, Nov. 11-14,2006, Hefei, China.
36. Poster, Inferring Protein Network by Multiple Domain Interactions, ICSB2006, Yokohama, Japan.
37. Oral Speaker, Supervised inference of gene regulatory network by linear programming, ICIC2006, Kunming, China.
38. Oral Speaker, Exploring the classification of protein structures on geometric patterns by neural networks, ISSN2006, Chengdu, China.
39. Oral Speaker, Automatic classification of protein structure based on convex hull representation, TAMC2006, Beijing, China.
40. Poster, Inferring Protein Interaction Network by Boosting Algorithm, GIW2005, Yokohama, Japan.
41. Invited Speaker, Protein Structure Prediction by SOM Approach, PhD candidate research seminar of Department of Mathematics, Tsinghua University, Beijing, China.

期刊编委

- Associate Editor of BMC Research Notes (BioMed Central' s open access journal)
- Associate Editor of The Open Information Systems Journal

期刊审稿

- Bioinformatics
- Proteins: Structure, Function, and Bioinformatics
- IET Systems Biology
- BMC Systems Biology

- BMC Bioinformatics
- PLoS Computational Biology
- Evolutionary Bioinformatics
- Algorithmic
- International Journal of Computer Mathematics
- Mathematical Biosciences
- IEEE/ACM Transactions on Computational Biology and Bioinformatics
- Protein Engineering, Design, and Selection
- Journal of Theoretical Biology
- Frontiers of Electrical and Electronic Engineering in China
- Molecules
- Journal of Convergence Information Technology
- 应用数学学报
- 系统科学与数学
- 运筹学报
- 运筹与管理

获奖情况

1997, 内蒙古大学一等奖学金.

1998, 内蒙古大学二等奖学金.

1998, 光华奖学金.

1999, 宝钢奖学金.

2004, 中国科学院管理、决策与信息系统重点实验室优秀奖

2004, 中国科学院数学与系统科学研究院院长奖学金特等奖

2008, 中国科学院数学与系统科学研究院突出科研成果奖

2010, Best Poster Award received in the 21st International Conference on Genome Informatics (GIW2010) for "An integrated gene regulatory network inference pipeline" by Yong Wang, Katsuhisa Horimoto, and Luonan Chen.