

[学院概况](#)[机构设置](#)[人才培养](#)[科学研究](#)[招生就业](#)[学生工作](#)[党群工作](#)

我的位置在： [首页](#) > [学院概况](#) > [师资力量](#) > [王树林](#)

王树林

教师介绍



王树林

博士后，教授，博导。本科毕业后参军入伍在中国核武器试验基地工作，从事核武器试验的安全研究与核试验数据处理工作，全程参加了代号为2187的氢弹地下核武器试验任务，获得部委级奖项。2000年转业到湖南大学从事科研与教学工作，主要讲授软件工程、高级软件工程、分布式原理、计算机组成原理、计算理论、高级程序设计、ACM国际大学生程序设计、生物计算和生物等十余门课程。近年来，在国内外有影响的学术刊物上发表五十余篇科研论文。研究兴趣：生物工程和人工智能。Email : jt_slwang@hotmail.com

中文名：

王树林

学历：

英文名：

职称：

所属机构：[信息工程系](#)

个人简历

受教育经历：

1985年9月至1989年7月在中国地质大学计算机科学系计算机应用专业学习，获学士学位。1994年9月至1997年6月在国防科技大学计算机系计算机应用专业学习，获工学硕士学位。2003年3月至2007年12月在国防科技大学计算机学院学习，师从陈火旺院士和王戟教授，获博士学位。

工作经历：1989年8月至2000年10月在位于新疆马兰的中国核武器试验基地工作，从事核试验安全保障技术研究与核武器试验数据计算机处理工作。

2000年10月至今在湖南大学计算机与通信学院从事科研与教学工作。

2008年4月至2010年8月在中国科学院合肥物质科学研究院博士后流动站工作。

2012年5月至2013年5月获美国资助，在美国Kansas大学应用生物信息学实验室做博士后研究。

科研项目：主持国家自然科学基金一项：基于启发式信息的肿瘤基因表达谱降维与分析方法研究(60973153)。主持中国博士后基金一项(20090450825)。作为第二申请人参加国家自然科学基金一项：基于隐马尔科夫模型的癌症关联基因调控通道建模研究(30900321)。

学术论文

论文发表：（杂志论文）

1. **Shu-Lin Wang**, Yaping Fang, Jianwen Fang. Diagnostic prediction of complex diseases using

phase-only correlation based on virtual sample template. *BMC Bioinformatics* 2013, 14(Suppl 8):S11, 9 May



2013. (SCI)

2. Shu-Lin Wang, Zhu, Y. H., Jia, W., Huang, D.S. (2012). "Robust Classification Method of Tumor Subtype by Using Correlation Filters." *IEEE-ACM Transactions on Computational Biology and Bioinformatics* 9(2): 580–591. (SCI)

3. Shu-Lin Wang, Li, X. L., Fang, J. W.. (2012). "Finding minimum gene subsets with heuristic breadth-first search algorithm for robust tumor classification." *BMC Bioinformatics* 13:178. (SCI)

4. Shu-Lin Wang, Jie Gui, and XueLing Li, "Factor analysis for cross-platform tumor classification based on gene expression profiles," *Journal of Circuits, Systems, and Computers*, vol. 19, no. 1, pp. 243–258, 2010 (SCI, EI).

5. Shu-Lin Wang, XueLing Li, Shanwen Zhang, Jie Gui, and Deshuang Huang, "Tumor classification by combining PNN classifier ensemble with neighborhood rough set based gene reduction," *Computers in Biology and Medicine*, vol. 40, no. 2, pp. 179–189, 2010 (SCI, EI).

6. Shu-Lin Wang, XueLing Li, Jun-Feng Xia, and Xiao-Ping Zhang, "Weighted neighborhood classifier for the classification of imbalanced tumor dataset," *Journal of Circuits, Systems, and Computers*, vol. 19, no. 1, pp. 259–273, 2010 (SCI, EI).

7. 王树林, 王戟, 陈火旺, 李树涛, 张波云, "肿瘤信息基团启发式宽度优先搜索算法研究,"《计算机学报》, vol. 31, no. 4, pp. 636–649, 2008 (EI).

8. 王树林, 王戟, 陈火旺, 张鼎兴, "k-长DNA子序列计数算法研究,"《计算机工程》, vol. 33, no. 9, pp. 40–42, 2007.

9. 王树林, 王戟, 陈火旺, 张波云, "基于主成分分析的肿瘤分类检测算法研究,"《计算机工程与科学》, vol. 29, no. 9, pp. 84–89, 2007.

10. 王树林, 王戟, 陈火旺, 张波云, "基于分形的DNA序列可视化表示研究,"《计算机科学》, vol. 33, no. 7, pp. 158–163, 2006.

11. 王树林, 王戟, 陈火旺, 张鼎兴, "k-长DNA子序列频数分布研究,"《生物物理学报》, vol. 22, no. 3, 177–196, 2006.

12. Meiling Hou, **Shulin Wang**, Xueling Li, Yingke Lei. "Neighborhood rough set reduction based gene selection and prioritization for gene expression profile analysis and molecular cancer classification," *Journal of Biomedicine and Biotechnology*, Volume 2010, Article ID 726413, 12 pages. (Correspondence Author, SCI)

13. Jie Gui, **Shu-Lin Wang**, and Deshuang Huang, "Multi-step Dimensionality Reduction and Semi-Supervised Graph-Based Tumor Classification Using Gene Expression Data," *Artificial Intelligence in Medicine* (Joint First Author, SCI).

14. Xue-Ling Li, **Shu-Lin Wang**, Meiling Hou. "Specificity of Transporter Associated with Antigen Processing Protein as Revealed by Feature Selection Method," *Protein and Peptide Letters*, vol. 17, no. 9, pp. 1129–1135, 2010. (Joint First Author, SCI)

15. Shanwen Zhang, De-shuang Huang, and **Shu-Lin Wang**. "A Method of Tumor Classification Based on Wavelet Packet Transforms and Neighborhood Rough Set", *Computers in Biology and Medicine*, vol. 40, no. 4, pp. 430–437, 2010. (SCI, EI).

16. Jie Gui, Weijia, Ling Zhu, **Shulin Wang** and Deshuang Huang, "Locality Preserving Discriminant Projections for Face and Palmprint Recognition," *Neurocomputing*, vol. 73, no. 13–15, pp. 2696–2707, 2010 (SCI, EI).

17. 余波, **王树林**, 张大方, "基于JUnit自动生成类测试案例框架的实现,"《计算机工程与应用》, vol. 42, no. 1, pp. 89–92, 2006.

18. 阳少林, **王树林**, "基于神经网络的多类肿瘤亚型识别研究,"《计算机工程与应用》, 2008, 44(11): 237–240. (EI)

论文发表: (会议论文)

1. Shu-Lin Wang and Yi-Hai Zhu, "A novel method to robust tumor classification based on MACE filter," *Emerging Intelligent Computing Technology and Applications: With Aspects of Artificial Intelligence*, in: *Proceedings of 5th International Conference on Intelligent Computing*, vol. 5755, pp. 945–954, 2009 (EI).

2. Shulin Wang, Xue-Lin Li, and Shanwen Zhang, "Neighborhood rough set model based gene selection for multi-subtype tumor classification," Advanced Intelligent ComputingTheories and Applications, in: Proceedings of 4th International Conference onIntelligent Computing, vol.5226, pp.146-158, 2008 (EI).
3. Shulin Wang, Ji Wang, Huowang Chen, Shutao Li, "Feature extraction and classification of tumor based on waveletpackage and support vector machines," The 11th Pacific-Asia Conference onKnowledge Discovery and Data Mining (PAKDD 2007), Nanjing, Lecture Notes inArtificial Intelligence (LNAI), vol. 4426, pp. 871-878, 2007 (EI).
4. Shulin Wang, Huowang Chen, Shutao Li and Dingxing Zhang, "Feature extraction from tumor gene expression profilesusing DCT and DFT," The 13th Portuese Conference on Artificial Intelligence,Portugal, Lecture Notes in Computer Sciences (LNCS), vol. 4874, pp.485-496,2007 (EI).
5. Shulin Wang, Huowang Chen, Ji Wang, Dingxing Zhang, Shutao Li, "Molecular diagnosis of tumor based on independentcomponent analysis and support vector machines," Proceedings of the 2006International Conference on Computational Intelligence and Security (CIS2006),Lecture Notes in Artificial Intelligence (LNAI), Guangzhou, vol. 4456, pp.46-56, 2007 (EI).
6. 王树林, 陈火旺, 王戰, “基于基因表达谱的肿瘤分类研究进展,”《生物信息学中的智能计算理论与方法研究》, 合肥: 中国科学技术大学出版社, pp.56-64, 2006.
7. Shulin Wang, Ji Wang, Huowang Chen, Boyun Zhang, "SVM-based tumor classification with gene expression data," International Conference on Advanced Data Mining and Applications, Springer-Verlag Berlin Heidelberg, vol.4093, pp. 864-870, 2006 (SCI, EI).
8. Shulin Wang, Huowang Chen, ShutaoLi, "Gene selection using neighborhood rough set from gene expressionprofiles," International Conference on Computational Intelligence and Security(CIS' 2007), Harbin, pp.959-963, 2007 (EI).
9. Shulin Wang, Ji Wang, Huowang Chen, Wensheng Tang, "The classification of tumor using gene expression profile basedon support vector machines and factor analysis," Intelligent Systems Design andApplications, Jinan, IEEE Computer Society Press, Part 2, pp. 471-476, 2006(EI).
10. Shulin Wang, Huowang Chen, Faren Li,Dingxing Zhang, "Gene selection with rough sets for the molecular diagnosing oftumor based on support vector machines," International Computer Symposium 2006,Taiwan, pp. 1368-1373, 2006.
11. Boyun Zhang, Jianping Yin, Jingbo Hao, and **ShulinWang**, "New malicious code detection based on n-gram analysis and rough settheory," International Conference on Computational Intelligence and Security,Lecture Notes in Artificial Intelligence (LNAI), Springer-Verlag, Guangzhou, vol.4456, pp.626-633, 2007 (EI).
12. Shu-Lin Wang, Hlong-Zhu You, Ying-KeLei, and Xue-Ling Li, "Performance Comparison of Tumor Classification Based onLinear and Non-linear Dimensionality Reduction Methods," Advanced IntelligentComputing Theories and Applications, in: Proceedings of sixth InternationalConference on Intelligent Computing, vol.6215, pp.291-300, 2010. (EI)
13. 王树林, 黄德双, 骆嘉伟, “计算科学与生命科学的相互交融与相互启示,”计算机科学, 2008年11月专辑, vol. 35, no. 11, pp. 31-35. (“计算思维与计算机导论”专题学术研讨会**特邀报告**).

版权所有©湖南大学2017 湖南大学党委宣传部 地址：湖南省长沙市岳麓区麓山南路麓山门 邮编：410082
xiaoban@hnu.edu.cn 域名备案信息：[www.hnu.edu.cn,www.hnu.cn/湘ICP备05000239号] [hnu.cn 湘教QS3-200
hnu.edu.cn 淄教QS4-201312-010059]