

# 计算机科学与技术学院

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甘杨兰

女 副教授 博士生导师/硕士生导师 计算机应用系

个人简介:

2012年于同济大学获得计算机应用技术博士学位(获上海市优秀博士学位论文), 主要研究机器学习与智能算法、大数据分析和生物信息等。研究成果发表在数据挖掘和生物信息领域的重要学术期刊和国际会议上, 已发表论文40余篇 (SCI论文25篇)。包括在《Knowledge-Based Systems》(IF=5.101)、《Neurocomputing》(IF=4.072)、《IEEE/ACM Transactions on Computational Biology and Bioinformatics》(IF=2.896)、《Bioinformatics》(IF=4.531)、《BMC Bioinformatics》(IF=2.511)、《Expert Systems with Applications》(IF=4.292)、《Soft Computing》(IF=2.784)、《Applied Intelligence》(IF=2.882)、IEEE ICWS和ICSOC等学术期刊和会议上发表学术论文。

作为项目负责人, 近年来正在主持或已完成国家级和省部级等各类科研项目10项, 包括2项国家自然科学基金项目(面上、青年)、2项上海自然科学基金项目(面上、青年)、1项上海市“晨光计划”人才项目和1项中央高校专项资金(重点)项目等。

2013年获得上海市优秀博士学位论文奖、2014年获得上海市“晨光计划”人才计划奖。2019年获得国家教育部自然科学二等奖1项(第七完成人)。

主要研究方向:

机器学习与智能算法

大数据分析

生物信息

讲授课程：

1. 本科生课程: 《Java程序设计》、《企业级Java技术》、《算法设计与分析》等
2. 全英文研究生课程: 《Data Mining》

近期主持的科研项目：

- 1.2018.1-2021.12 国家自然科学基金（面上）项目 主持
- 2.2017.5-2020.4 上海市自然科学基金（面上）项目 主持
- 3.2016.1-2018.12 中央高校专项资金（重点）项目 主持
- 4.2014.9-2016.12 国家自然科学基金（青年）项目 主持
- 5.2013.10-2016.9 上海市自然科学基金（青年）项目 主持
- 6.2014.1-2015.12 上海市“晨光计划”人才项目 主持
- 7.2013.1-2015.12 中央高校专项资金（自由探索）项目 主持

近几年的论著、专利：

[1]Yanglan Gan, Yang Xiang, Guobing Zou\*, Huaikou Miao, Bofeng Zhang\*. Multi-label Recommendation of Web Services with the Combination of Deep Neural Networks, The 15th International Conference on Collaborative Computing (CollaborateCom), pp. 133-150, 2019. (CCF C类)

[2]Xia Zhang, Yanglan Gan\*, Guobing Zou, Jihong Guan, Shuigeng Zhou. Genome-wide analysis of epigenetic dynamics across human developmental stages and tissues. BMC

Genomics, 20(221): 153-162, 2019. (通信作者, SCI, IF=3.501, 中科院2区)

[3]Guobing Zou, Zhen Qin, Qiang He, Pengwei Wang, Bofeng Zhang, Yanlan Gan\*. DeepWSC: A Novel Framework with Deep Neural Network for Web Service Clustering. The 26th IEEE International Conference on Web Services (ICWS), Milan, Italy, July 8-13, pp. 434-436, 2019. (通信作者, CCF B)

[4]Guobing Zou, Shengye Pang, Pengwei Wang, Huaikou Miao, Sen Niu, Yanlan Gan\*, Bofeng Zhang\*. Neighborhood-based uncertain QoS prediction of web services via Matrix Factorization, The 14th International Conference on Collaborative Computing (CollaborateCom), pp. 659-675, 2019. (通信作者, CCF C类)

[5]Shengye Pang, Guobing Zou\*, Yanlan Gan, Sen Niu, Bofeng Zhang. Augmenting Probabilistic Topic Model for Web Service Classification. International Journal of Web Services Research, 16(1): 93-113, 2019. (SCI, IF=0.447)

[6]Sen Niu, Guobing Zou\*, Yanlan Gan, Yang Xiang, Bofeng Zhang. Towards the optimality of QoS-aware Web service composition with uncertainty. International Journal of Web and Grid Services, 15(1): 1-28, 2019. (SCI, IF=0.833)

[7]Yanlan Gan, Ning Li, Guobing Zou, Yongchang Xin and Jihong Guan\*. Identification of cancer subtypes from single-cell RNA-seq data using a consensus clustering method. BMC Medical Genomics, 11(117): 65-72, 2018. (SCI, IF= 3.364, 中科院3区)

[8]Yanlan Gan, Zhiyuan Dong, Xia Zhang, Guobing Zou. Tri-Clustering Analysis for Dissecting Epigenetic Patterns Across Multiple Cancer Types. International Conference on Intelligent Computing (ICIC), pp. 330-336, 2018. (EI)

[9]Guobing Zou, Ming Jiang, Sen Niu, Hao Wu, Shengye Pang, Yanlan Gan\*. QoS-aware Web Service Recommendation with Reinforced Collaborative Filtering. The 16th International Conference on Service Oriented Computing (ICSOC), pp. 430-445, 2018. (通信作者, CCF B类)

[10]Guobing Zou, Zhimin Zhou, Mei Zhao, Sen Niu, Yanlan Gan\*. Granularity-based Uncertain QoS Partitioning for Web Service Reliability. Journal of Internet Technology, 19(4): 1031-1042, 2018. (通信作者, SCI, IF=1.301)

[11]Sen Niu, Guobing Zou\*, Yanlan Gan, Zhimin Zhou, Bofeng Zhang. Uncertain composition of Web services via non-deterministic planning. Journal of Internet Technology, 19(3): 697-710, 2018. (SCI, IF=1.301)

[12]Mingqiang Huang, Guobing Zou\*, Bofeng Zhang\*, Yanlan Gan, Sen Niu, Kewen

[12]Mingqing Huang, Guobing Zou\*, Bofeng Zhang\*, Yanglan Gan, Susu Jiang, Keyuan Jiang. Identifying Influential Individuals in Microblogging Networks using Graph Partitioning. *Expert Systems with Applications*, 102: 70-82, 2018. (SCI, IF=4.292, 中科院2区)

[13]Yanglan Gan, Han Tao, Jihong Guan, Shuigeng Zhou. iHMS: a database integrating human histone modification data across developmental stages and tissues, *BMC Bioinformatics*, 2017, 18(103): 1~9. (SCI, IF=2.511, 中科院2区)

[14]Sen Niu, Guobing Zou, Yanglan Gan\*, Yang Xiang, Bofeng Zhang. Towards Uncertain QoS-aware Service Composition via Multi-objective Optimization. *The 24th IEEE International Conference on Web Services (ICWS)*, pp. 894-897, 2017. (通信作者, CCF B类)

[15]Guobing Zou, Wang Li, Zhimin Zhou, Sen Niu, Yanglan Gan\*, Bofeng Zhang. Clustering-based uncertain QoS prediction of Web services via collaborative filtering. *International Journal of Web and Grid Services*, 13(4): 403-424, 2017. (通信作者, SCI, IF=1.071)

[16]Hongda Bu, Yanglan Gan, Yang Wang, Shuigeng Zhou, Jihong Guan. A new method for enhancer prediction based on deep belief network. *BMC Bioinformatics*, 18(418), 1-7, 2017. (SCI, IF=2.511, 中科院2区)

[17]Yanglan Gan, Han Tao, Guobing Zou, Cairong Yan, Jihong Guan. Dynamic epigenetic mode analysis using spatial temporal clustering. *BMC Bioinformatics*, 2016, 17 (537) : 213~220. (SCI, IF=2.44, 中科院2区)

[18]Yun Lu, Yanglan Gan, Jihong Guan, Shuigeng Zhou. An integrative analysis of nucleosome occupancy and positioning using diverse sequence dependent properties. *Neurocomputing*, 2016, 206(19):35-41. (SCI, IF=4.072, 共同第一作者, 中科院2区)

[19]Sen Niu, Guobing Zou\*, Yanglan Gan\*, Zhimin Zhou, Bofeng Zhang. UCLAO\* and BHUC: Two novel planning algorithms for uncertain Web service composition. In *Proc. of 13th IEEE International Conference on Services Computing (SCC)*, 2016, pp. 531-538. (通信作者, CCF C类)

[20]Yanglan Gan, Guobing Zou, Jihong Guan, Guangwei Xu. A novel wavelet-based approach for predicting nucleosome positions using DNA structural information. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2014, 11(4): 638-647. (SCI, IF=2.896, 中科院2区)

[21]Yanglan Gan, Jihong Guan, Shuigeng Zhou, Weixiong Zhang. Identifying cis-regulatory elements and modules using conditional random fields. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 2014, 11(1):73-82. (SCI, IF=2.896, 中科院2区)

[22]Guobing Zou, Yanglan Gan\*, Yixin Chen, Bofeng Zhang. Dynamic composition of Web services using efficient planners in large-scale service repository. Knowledge-Based Systems, 2014, 62: 98-112. (通信作者, SCI, IF=5.101,中科院2区)

[23]Guobing Zou, Yanglan Gan\*, Yixin Chen, Bofeng Zhang, Ruoyun Huang, You Xu, Yang Xiang. Towards automated choreography of Web services using planning in large scale service repositories. Applied Intelligence, 2014,41(2): 383-404. (通信作者, SCI, IF=2.882, 中科院3区)

[24]Guobing Zou, Yanglan Gan\*, Sen Niu, Mei Zhao, Bofeng Zhang. Towards optimal discovery of Web services for multiple QoS constraints and preferences. International Journal of Web Engineering and Technology, 2014, 9(3): 277-299. (通信作者, EI)

[25]Guobing Zou, Yanglan Gan, Jianxing Zheng, Bofeng Zhang. Service Composition and User Modeling for Personalized Recommendation in Cloud Computing. In Proc. of 5th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 2014, pp. 1-7.(EI)

[26]Yanglan Gan, Jihong Guan, Shuigeng Zhou. A comparison study on feature selection of DNA structural properties for promoter prediction. BMC Bioinformatics, 13(4):1-12, 2012. (SCI, IF=2.511, 中科院2区)

[27]Yanglan Gan, Jihong Guan, Shuigeng Zhou, Weixiong Zhang. Structural features based genome-wide characterization and prediction of nucleosome organization. BMC Bioinformatics, 13(49): 1-15, 2012. (SCI, IF=2.511, 中科院2区)

[28]Guobing Zou, Yang Xiang, Yanglan Gan, Yixin Chen. A novel approach to annotating Web service based on interface concept mapping and semantic expansion. Soft Computing, 15(5): 929-938, 2011. (SCI, IF=2.784, CCF C类)

[29]Yanglan Gan, Jihong Guan, Shuigeng Zhou. A pattern-based nearest neighbor search approach for promoter prediction using DNA structural profiles. Bioinformatics, 25(16): 2006-2012, 2009. (SCI, IF=4.531, 中科院1区)

[30]Jihong Guan, Yanglan Gan, Hao Wang, "Discovering Pattern-based Subspace Clusters by Pattern Tree" , Knowledge-Based Systems, 22(8): 569-579, 2009. (SCI, IF=5.101,中科院2区)

获奖情况:

- 1.2013年获“上海市优秀博士学位论文奖”
- 2.2014年入选“上海市晨光计划人才计划”
- 3.2019年获国家教育部自然科学二等奖（第七完成人）

国际交流与合作：

- 1.2009.09-2011.09美国华盛顿大学（圣路易斯）人工智能与计算生物学联合培养博士

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