导师信息采集表

姓名	罗辛	性别	男	最高学位	工学博士
博导/硕导	博导	邮箱	luoxin21@cigit.ac.cn		

个人简介（限 300 字）：

研究员、博导，任重庆研究院大数据挖掘与应用中心副主任。研究聚焦大数据智能计算领域高维稀疏数据分析理论，在 IEEE T. NNLS、IEEE T. Cybernetics、IEEE T. II、IEEE T. SMC Systems、IJCAI 等国际期刊和会议上发表学术论文 100 余篇，累积影响因子大于 260，SCI 统计引用 1000 余次，谷歌学术统计引用 2000 余次。申请国家发明专利 36 项，获权 20 项，并实现 19 项授权专利的成果转化，累积产生经济效益超过 6000 万元。先后主持国家重点发计划课题（724 万）、国家自然科学基金面上项目、重庆市杰出青年基金等多项国家及省部级项目，累积负责科研经费超过 3000 万元，多次获得重庆市科技进步一等奖、中国人工智能学会吴文俊科技进步一等奖等省部级奖项。担任 Neurocomputing 等多个国际期刊的副编辑。

教育经历：

2005.09~2011.01，北京航空航天大学，计算机应用技术，硕博连读

2001.09~2005.07，电子科技大学，计算机应用技术，学士

主要研究方向：

大数据与智能计算

招生专业：

计算机科学与技术、人工智能、数据科学

科研成果（含文章、专利、科研项目等）：

论文：在 IEEE T. NNLS、IEEE T. Cybernetics、IEEE T. II、IEEE T. SMC Systems、IJCAI 等国际期刊和会议上发表学术论文 100 余篇，部分代表性论文如下：

1. Xin Luo*（罗辛），MengChu Zhou, Shuai Li, Yunni Xia, Zhuhong You, Qingsheng Zhu, and Hareton Leung. Incorporation of Efficient Second-order Solvers into Latent Factor Models for Accurate Prediction of Missing QoS Data. IEEE Transactions on Cybernetics, 2018, 48 (4):1216-1228. IF=10.387，中科院分区一区，SCI 引用 23 次，ESI 高被引

2. Xin Luo*（罗辛），MengChu Zhou, Shuai Li, and Mingsheng Shang. An Inherently Non-negative Latent Factor Model for High-dimensional and Sparse Matrices from Industrial Applications. IEEE Transactions on Industrial Informatics, 2018, 14 (5): 2011-2022. IF=7.377，中科院分区一区，SCI 引用 8 次

3. Xin Luo*（罗辛），Jianpei Sun, Zidong Wang, Shuai Li, and Mingsheng Shang. Symmetric and Non-negative Latent Factor Models for Undirected, High Dimensional and Sparse Networks in Industrial Applications, IEEE Transactions on Industrial Informatics, 2017, 13(6):3098-3107. IF=7.377，中科院分区一区，SCI 引用 28 次

4. Xin Luo*（罗辛），MengChu Zhou, Shuai Li, Zhuhong You, Yunni Xia, and Qingsheng Zhu. A Non-negative Latent Factor Model for Large-scale Sparse Matrices in Recommender Systems via Alternating Direction Method. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27(3):524-537. IF=11.683，中科院分区一区，SCI 引用 74 次，ESI 高被引

5. Xin Luo*（罗辛），MengChu Zhou, Yunni Xia, Qingsheng Zhu, Ahmed Chiheb Ammari, and Ahmed Alabdulwahab. Generating Highly Accurate Predictions for Missing QoS-data via Aggregating Non-

negative Latent Factor Models. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27(3):579-592. IF=11.683，中科院分区一区，SCI 引用 61 次

6. Xin Luo*（罗辛）, MengChu Zhou, Yunni Xia, and Qingsheng Zhu. An Incremental-and-Static-Combined Scheme for Matrix-Factorization-Based Collaborative Filtering. IEEE Transactions on Automation Science and Engineering, 2016, 13(1):333-343. IF=5.224，中科院分区二区，SCI 引用 42 次

7. Xin Luo*（罗辛）, MengChu Zhou, Shuai Li, Zhuhong You, Yunni Xia, Qingsheng Zhu, and Hareton Leung. An Efficient Second-order Approach to Factorizing Sparse Matrices in Recommender Systems. IEEE Transactions on Industrial Informatics, 2015, 11(4): 946-956. IF=7.377，中科院分区一区，SCI 引用 42 次

8. Xin Luo*（罗辛）, MengChu Zhou, Yunni Xia, and Qingsheng Zhu. An Efficient Non-negative Matrix-factorization-based Approach to Collaborative-filtering for Recommender Systems. IEEE Transactions on Industrial Informatics, 2014, 10(2): 1273-1284. IF=7.377，中科院分区一区，SCI 引用 164 次，ESI 高被引

9. Xin Luo（罗辛）, Hao Wu, MengChu Zhou* and Huaqiang Yuan*. Temporal Pattern-aware QoS Prediction via Biased Non-negative Latent Factorization of Tensors. IEEE Transactions on Cybernetics, DOI 10.1109/TCYB.2019.2903736. IF=10.387，中科院分区一区

10. Xin Luo#,*（罗辛）, MengChu Zhou*, Shuai Li, Lun Hu#, and Mingsheng Shang, Non-negativity Constrained Missing Data Estimation for High-dimensional and Sparse Matrices from Industrial Applications. IEEE Transactions on Cybernetics, DOI 10.1109/TCYB.2018.2894283. IF=10.387，中科院分区一区

11. Xin Luo*（罗辛）, MengChu Zhou, Zidong Wang, Yunni Xia, and Qingsheng Zhu. An Effective QoS Estimating Scheme via Alternating Direction Method-based Matrix Factorization, IEEE Transactions on Services Computing, DOI 10.1109/TSC.2016.2597829. IF= 5.707，中科院分区一区

12. Xin Luo#（罗辛）, Dexian Wang#, MengChu Zhou*, and Huanqiang Yuan*. Latent Factor-based Recommenders Relying on Extended Stochastic Gradient Descent Algorithms. IEEE Transactions on System Man Cybernetics: Systems, DOI 10.1109/TSMC.2018.2884191. IF=7.351，中科院分区二区

13. Xin Luo#,*(罗辛), Zhigang Liu#, Shuai Li, Mingsheng Shang, and Zidong Wang, A Fast Non-negative Latent Factor Model based on Generalized Momentum Method. IEEE Transactions on System Man Cybernetics: Systems, DOI 10.1109/TSMC.2018.2875452. IF=7.351，中科院分区二区

14. Xin Luo*（罗辛）, MengChu Zhou, Shuai Li, and Mingsheng Shang*. Algorithms of Unconstrained Non-negative Latent Factor Analysis for Recommender Systems, IEEE Transactions on Big Data, DOI 10.1109/TBDATA.2019.2916868.

15. Xin Luo（罗辛）, Zidong Wang*, and Mingsheng Shang*. An Instance-frequency-weighted Regularization Scheme for Non-negative Latent Factor Analysis on High Dimensional and Sparse Data. IEEE Transactions on System Man Cybernetics: Systems, DOI: 10.1109/TSMC.2019.2930525. IF=7.351，中科院分区二区

16. Xin Luo#（罗辛）, Ye Yuan#, MengChu Zhou*, Zhigang Liu, and Mingsheng Shang*. Non-negative Latent Factor Model based on β-divergence for Recommender Systems. IEEE Transactions on System Man Cybernetics: Systems, 10.1109/TSMC.2019.2931468. IF=7.351，中科院分区二区

17. Di Wu#, Xin Luo*（罗辛）, Mingsheng Shang#, Yi He, Guoyin Wang, and Mengchu Zhou. A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. IEEE Transactions on System Man Cybernetics: Systems, 10.1109/TSMC.2019.2931393. IF=7.351，中科院分区二区

18. Shuai Li#, MengChu Zhou*, and Xin Luo*,#（罗辛）. Modified Primal-Dual Neural Networks for Motion Control of Redundant Manipulators With Dynamic Rejection of Harmonic Noises. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29 (10): 4791-4801. IF=11.683，中科院分区一区，SCI 引用 38 次，ESI 高被引

19. Long Jin, Shuai Li*, Hung Manh La, and Xin Luo*,#（罗辛）. Manipulability Optimization of Redundant Manipulators Using Dynamic Neural Networks. IEEE Transactions on Industrial Electronics, 2017, 64(6): 4710-4720. IF=7.503，中科院分区一区，SCI 引用 71 次，ESI 高被引

20. Lun Hu, Xiaohui Yuan, Xing Liu, Shengwu Xiong*, and Xin Luo*（罗辛）. Efficiently Detecting Protein Complexes from Protein Interaction Networks via Alternating Direction Method of Multipliers. IEEE/ACM Transactions on Computational Biology and Bioinformatics, DOI 10.1109/TCBB.2018.2844256. IF=2.896，中科院分区二区，SCI 引用 1 次

21. Yan Song, Ming Li, Xin Luo*（罗辛）, Guisong Yang and Chongjing Wang. Improved Symmetric and Nonnegative Matrix Factorization Models for Undirected, Sparse and Large-Scaled Networks: A Triple Factorization-Based Approach, IEEE Transactions on Industrial Informatics, DOI 10.1109/TII.2019.2908958. IF=7.377，中科院分区一区

22. Lun Hu, Pengwei Hu, Xiaohui Yuan, Xin Luo*（罗辛）, and Zhuhong You. Incorporating the Coevolving Information of Substrates in Predicting HIV-1 Protease Cleavage Sites. IEEE/ACM Transactions on Computational Biology and Bioinformatics, DOI 10.1109/TCBB.2019.2914208. IF=2.896，中科院分区二区

23. Dechao Chen#, Shuai Li, Qing Wu, and Xin Luo#（罗辛）. New Disturbance Rejection Constraint for Redundant Robot Manipulators: An Optimization Perspective, IEEE Transactions on Industrial Informatics, DOI 10.1109/TII.2019.2930685. IF=7.377，中科院分区一区

24. Di Wu#, Xin Luo#（罗辛）, Guoyin Wang*, Mingsheng Shang*, Ye Yuan and Huyong Yan. A Highly-Accurate Framework for Self-Labeled Semi-Supervised Classification in Industrial Applications, IEEE Transactions on Industrial Informatics, 2018, 14(3):909-920. IF=7.377，中科院分区一区，SCI 引用 8 次

25. Long Jin#,*, Shuai Li#,*, Xin Luo#（罗辛）, Yangming Li, and Bin Qin. Neural Dynamics for Cooperative Control of Redundant Robot Manipulators. IEEE Transactions on Industrial Informatics, 2018, 14 (9): 3812-3821. IF=7.377，中科院分区一区，SCI 引用 36 次，ESI 高被引

26. Yinyan Zhang#, Shuai Li, Jie Gui, and Xin Luo#（罗辛）. Velocity-Level Control with Compliance to Acceleration-Level Constraints: A Novel Scheme for Manipulator Redundancy Resolution, IEEE Transactions on Industrial Informatics, 2018, 14(3):921-930. IF=7.377，中科院分区一区，SCI 引用 13 次

27. Huiyan Lu#, Long Jin*, Xin Luo#（罗辛）, Bolin Liao, Dongsheng Guo, and Lin Xiao. RNN for Solving Perturbed Time-Varying Underdetermined Linear System with Double Bound Limits on Residual Errors and State Variables, IEEE Transactions on Industrial Informatics, DOI 10.1109/TII.2019.2909142. IF=7.377，中科院分区一区

28. ZhuhongYou, MengChu Zhou, Xin Luo（罗辛）, Shuai Li. Highly Efficient Framework for Predicting Interactions Between Proteins. IEEE Transactions on Cybernetics, 2017, 47(3): 721-733. IF=10.387，中科院分区一区，SCI 引用 30 次

29. Shuai Li, ZhuhongYou, Hongliang Guo, Xin Luo（罗辛）, Zhongqiu Zhao. Inverse-free Extreme Learning Machine with Optimal Information Updating. IEEE Transactions on Cybernetics, 2016, 46(5): 1229-1241. IF=10.387，中科院分区一区，SCI 引用 44 次

30. Shuai Li, MengChu Zhou, Xin Luo（罗辛）, and ZhuhongYou. Distributed Winner-take-all in Dynamic Networks, IEEE Transactions on Automatic Control, 2016, 62(2): 577-589. IF=5.093，中科院分区二区，SCI 引用 33 次

31. Yunni Xia, MengChu Zhou, Xin Luo（罗辛）, Shanchen Pang, Qingsheng Zhu, Jia Li. Stochastic Modeling and Performance Analysis of Migration-enabled and Error Prone Clouds. IEEE Transactions on Industrial Informatics, 2015, 11(2):495-504. IF=7.377，中科院分区一区，SCI 引用 31 次

32. Yunni Xia, MengChu Zhou, Xin Luo（罗辛）, Shanchen Pang, Qingsheng Zhu. A Stochastic Approach to Analysis of Energy-Aware Dvs-Enabled Cloud Datacenters. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45(1): 73-83. IF=7.351，中科院分区二区，SCI 引用 24 次

33. Yunni Xia, MengChu Zhou, Xin Luo（罗辛）, Qingsheng Zhu, Jia Li, Yu Huang. Stochastic Modeling

and Quality Evaluation of Infrastructure-as-a-Service Clouds. IEEE Transactions on Automation Science and Engineering, 2015, 12(1): 162-170. IF=5.224，中科院分区二区，SCI 引用 38 次

34. Yunni Xia, Xin Luo（罗辛）, Jia Li, Qingsheng Zhu. A Petri-Net-Based Approach to Reliability Determination of Ontology-Based Service Compositions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43(5): 1240-1247. IF=7.351，中科院分区二区，SCI 引用 16 次

35. Xin Luo（罗辛） and Mingsheng Shang. Symmetric Non-negative Latent Factor Models for Undirected Large Networks. In Proc. of the 27th Int. Joint Conf. on Artificial Intelligence 2017 (IJCAI 2017), 2435-2442 (Regular)

36. Xin Luo（罗辛）, Mingsheng Shang and Shuai Li. Efficient Extraction of Non-negative Latent Factors from High-Dimensional and Sparse Matrices in Industrial Applications. In Proc. of the 16th IEEE Int. Conf. on Data Mining 2016 (ICDM 2016): 311-319 (Regular)

专利：申请国家发明专利 36 项，获权 20 项，部分授权专利如下：

1. 一种协同过滤推荐模型中调整学习速率的方法，ZL201210168756.8
2. 一种基于权重支持率的高通量筛选数据噪声抑制方法和装置，ZL201510087545.5
3. 一种特征抽取方法和装置，ZL201410013846.9
4. 一种用户-商品点击率自适应预测装置和预测方法，ZL201310162681.7
5. 一种基于非负交替方向变换的用户特征抽取方法及抽取装置，ZL201510087359.1

科研项目：累积负责科研经费超过 3000 万元，主要主持项目如下：

1. 贿赂犯罪社会关系网络的多粒度分析技术研究，国家重点研发计划课题，724 万
2. 高维稀疏数据隐特征分析方法，中国科学院百人计划项目，280 万
3. 基于隐特征分析的信息推荐技术研究，国家自然科学基金-面上，66 万
4. 高维稀疏数据分析方法研究，重庆市杰出青年基金，50 万

所获荣誉：

2019 年入选重庆市青年专家工作室首席专家、获重庆市自然科学基金杰出青年项目

2018 年获中国人工智能学会吴文俊人工智能科技进步一等奖（排名 3）、重庆市科技进步一等奖（排名 2）、IEEE Access 杰出副编辑

2017 年入选重庆市青年拔尖人才、IEEE 学会高级会员，并获重庆市自然科学三等奖（排名 3）

2015 年获评 ACM 中国学术新星重庆分会奖

个人承诺：本人承诺以上信息真实。如有不实之处，愿承担相应后果。

承诺人签名：