

简历

个人信息

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- 现时职位: 中山大学, 计算机学院, 副教授
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教育背景

- 博士 计算机科学, 2009 年
Florida Atlantic University, Boca Raton, 佛罗里达, 美国。
导师: 吴杰 (IEEE fellow)
- 硕士 计算机软件与理论, 中山大学。 2005 年
导师: 张治国
- 学士 微电子技术, 计算机科学 (双专业), 华南理工大学 2002 年

研究兴趣

- 人工智能 / 自然语言处理 / 大语言模型
- 计算机无线网络 / 自组织无线网络 / 容迟网络 / 路由协议
- 计算机无线网络 / 自组织无线网络 / 地理信息路由协议
- 计算机网络 / 入侵检测与预防 / 深层包裹检测
- 并行分布计算 / 数据库事务处理 / 乐观事务处理

获得奖励

- 中山大学百人计划海外引进人才 2009 年

教学经历

- 数据结构与算法 2022 年至 2024 年
- 数据结构与算法实验 2022 年至 2024 年
- 并行分布计算 2022 年
- C++ 程序设计 I 2010 年至 2022 年
- C++ 程序设计 I 实验 2010 年至 2022 年
- C++ 程序设计 II 2010 年至 2022 年
- C++ 程序设计 II 实验 2010 年至 2022 年
- CDAC3201 "Introduction to logic design", 助教 2007 年
- COP6731 "Theory/implementation of database systems", 助教 2007 年
- COT3002 "Foundations of computer science", 助教 2005-2006 年
- COP2220 "Introduction to programming in C", 助教 2005-2008 年

工作经历

- 副教授, 中山大学, 计算学院 2014/01 至今
- 访问学者, 南洋理工大学 2014/06-2014/09
- 铸星计划青年访问研究员, 北京微软亚洲研究院 2013/06-2013/09
- 访问学者, 美国天普大学 2011/12-2012/01
- 访问学者, 美国天普大学 2015/08-2015/09

- 讲师，中山大学，信息科学与技术学院 2009/12-2014/01
- 助理研究员，中国科学院，深圳先进技术研究院 2009 年
- 研究/教学助理，Florida Atlantic University, 美国 2005-2009 年
- 研究助理，摩托罗拉，美国 2006 年

主持科研项目

- 大规模移动社会网络中关键路由技术的研究，国家自然科学基金(面上项目)，61472459，2015/1—2018/12。
- 间歇连通网络中消息传递算法的研究，珠江科技新星项目，2012/1—2014/12。
- 容迟网络中的节能路由协议的研究，国家自然科学基金(青年基金)，61003241，2010/1—2012/12。
- 间歇连通网络中路由算法的研究，中山大学青年教师培育项目，2011/1—2012/12。

社会服务

- 参与著名国际会议的程序委员会(TPC): IEEE INFOCOM, IEEE WSNS, IEEE MCSoc。
- 参与著名国际会议和期刊的审稿: ACL, EMNLP, NAACL, AAAI, IEEE TPDS, IEEE TC, IEEE TWC, ACM MobiHoc, IEEE INFOCOM, IEEE ICNP, IEEE PerCom, IEEE MASS, IEEE ICDCS, IEEE SECON。
- 国家自然科学基金评审

会议论文

- [1] **Cong Liu**, Wenchang Chai, Hejun Wu, Yan Pan, Pengxu Wei, Liang Lin. Thinking Before You Speak: A Proactive Test-time Scaling Approach. The 2025 Conference on Empirical Methods in Natural Language Processing (**EMNLP**) 2025, Findings.
- [2] **Cong Liu**, Xiaojun Quan, Yan Pan, Weigang Wu, Xu Chen, Liang Lin. Cool-Fusion: Fuse Large Language Models without Training. The 63rd Annual Meeting of the Association for Computational Linguistics (**ACL**) 2025.
- [3] **Cong Liu**, Jie Wu, Weigang Wu, Xu Chen, Liang Lin, Wei-Shi Zheng. Chain of Methodologies: Scaling Test Time Computation without Training. The 63rd Annual Meeting of the Association for Computational Linguistics (**ACL**) 2025, Findings.
- [4] Yao Xiao, Pengxu Wei, **Cong Liu**, Liang Lin. Adversarially-Robust Source-free Domain Adaptation with Relaxed Adversarial Training. **ICME** 2023
- [5] Yao Xiao, Ziyi Tang, Pengxu Wei, **Cong Liu**, Liang Lin. Masked Images Are Counterfactual Samples for Robust Fine-tuning. **CVPR** 2023.
- [6] Liangdao Wang, Yan Pan, **Cong Liu**, Hanjiang Lai, Jian Yin. Deep Hashing with Minimal-Distance-Separated Hash Centers. **CVPR** 2023.
- [7] 王郅成, 施天予, 肖澧寅, **刘聪***, Order-sensitive Neural Constituency Parsing, The 34th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2022).
- [8] Kai Liu, Tianyi Wu, **Cong Liu***, Guodong Guo. Dynamic Group Transformer: A General Vision Transformer Backbone with Dynamic Group Attention. Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence (**IJCAI** 2022).
- [9] Kai Liu, **Cong Liu***. Linear Substitution Pruning: Consider All Filters Together. Proceedings of the 8th International Conference on Computing and Artificial (ICCAI 22).
- [10] Zhonghao Chen, **Cong Liu***. An Attention Method to Introduce Prior Knowledge in Dialogue State Tracking. Neural Information Processing, Lecture Notes in Computer Science. volume 13110. pp. 544-557. 2021.
- [11] Weiyuan Zeng and **Cong Liu***. Improving Lexical-Constraint-Aware Machine Translation by

- Factoring Encoders. In Proc. of International Joint Conference on Neural Networks (IJCNN) 2021
- [12] **Cong Liu***, Mingjun Xiao, and Yaxiong Zhao. Scalable and Privacy Preserving Routing in Mobile Social Networks. In 2018 IEEE 15th International Conference on Mobile Ad Hoc and Sensor Systems (MASS), The 2nd International Workshop on Trust, Security and Privacy for Big Data
 - [13] Yuwei Zhang and Cong Liu. Accelerate Deep Q-Network Learning by n-step Backup. In Proc. of International Conference on Innovation in Artificial Intelligence (ICIAI) 2018
 - [14] Hongfei Yu and **Cong Liu**. An Informed Neural Architecture for Aspect-level Sentiment Classification. In Proc. of International Conference on Innovation in Artificial Intelligence (ICIAI) 2018
 - [15] Minguang Xiao and **Cong Liu***. Semantic Relation Classification via Hierarchical Recurrent Neural Network with Attention. In *Proceedings of International Conference on Computational Linguistics (COLING)*, 2016.
 - [16] Jie Shen and **Cong Liu***. Improved Word Embeddings with Implicit Structure Information. In *Proceedings of International Conference on Computational Linguistics (COLING)*, 2016.
 - [17] Yao Zhou, **Cong Liu***, and Yan Pan. Modelling Sentence Pairs with Tree-structured Attentive Encoder. In *Proceedings of International Conference on Computational Linguistics (COLING)*, 2016.
 - [18] Mingjun Xiao, Jie Wu, Liusheng Huang, Yunsheng Wang, and Cong Liu. Multi-Task Assignment for CrowdSensing in Mobile Social Networks, In *Proceedings of IEEE Conference on Computer Communications (INFOCOM)*, 2015.
 - [19] Yuxing He, **Cong Liu**, Yan Pan, Jun Zhang, Jie Wu, Yaxiong Zhao, Shuhui Yang, and Mingming Lu. A Localized Efficient Forwarding Algorithm in Large-scale Delay Tolerant Networks. *IEEE Annual International Workshop on Mission-Oriented Wireless Sensor Networking (MiSeNet)*, 2014.
 - [20] Lin Chen, Kaigui Bian, Lin Chen, **Cong Liu** Jung-Min Park, and Xiaoming Li. A Group-theoretic Framework for Rendezvous in Heterogeneous Cognitive Radio Networks. In *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2014.
 - [21] **Cong Liu**, Yan Pan, Ai Chen, Kaigui Bian, and Jie Wu. Scalable Opportunistic Forwarding Algorithms in Delay Tolerant Networks using Similarity Hashing. In Proceedings of IEEE International Conference of Sensing, Communication, and Networking (**SECON**), 2014.
 - [22] **Cong Liu**, Yan Pan, Jun Zhang, Mingjun Xiao, Ai Chen, and Jie Wu. A Utility-based Multi-copy Forwarding Algorithm in Delay Tolerant Networks. In Proceedings of the International Conference of Computer Communications and Networks (**ICCCN**), 2014.
 - [23] Rongkai Xia, Yan Pan, Hanjiang Lai, **Cong Liu**, and Shuicheng Yan. Supervised Hashing for Image Retrieval via Image Representation Learning. In Proceedings of AAAI Conference on Artificial Intelligence (**AAAI**), 2014.
 - [24] Xiao Chen, Chengyin Liu and **Cong Liu**. Efficient Routing Algorithms Combining History and Social Predictors in Mobile Social Networks. In Proceedings of IEEE International Symposium on Parallel and Distributed Processing with Applications (**ISPA**), 2014.
 - [25] Mingjun Xiao, Jie Wu, **Cong Liu**, Liusheng Huang. TOUR: Time-sensitive Opportunistic Utility-based Routing in Delay Tolerant Networks, In Proceedings of IEEE Conference on Computer Communications (**INFOCOM**), 2013.
 - [26] Yaxiong Zhao, Jie Wu, **Cong Liu**, Mingming Lu. A Hierarchical Naming System for Scalable Content Distribution in Large Networks, IEEE Wireless Communications and Networking Conference (**WCNC**), 2013.

- [27] Yan Pan, Hanjiang Lai, **Cong Liu**, and Shuicheng Yan. A Divide-and-Conquer Method for Scalable Robust Late Fusion. In Proceedings of IEEE Computer Vision and Pattern Recognition (**CVPR**), 2013.
- [28] Yan Pan, Hanjiang Lai, **Cong Liu**, Yong Tang and Shuicheng Yan. Rank Aggregation via Low-rank and Structured-sparse Decomposition. In AAAI Conference on Artificial Intelligence (**AAAI**), 2013.
- [29] Huimin Wu, Rong Yu, **Cong Liu**, Hongbin Chen, and Yue Lai. Distributed location-assisted multiple access scheme for vehicular ad hoc networks, in Proceedings of International Conference on Communications and Networking in China (**CHINACOM**), 2013.
- [30] Xin Guan, Min Chen, **Cong Liu**, Hongyang Chen, Tomoaki Ohtsuki. Trajectory Optimization of Packet Ferries in Sparse Mobile Social Networks, In Proceedings of the IEEE Global Communication Conference (**GLOBECOM**), 2011.
- [31] **Cong Liu**, Ai Chen, Di Wu, Jie Wu. A DFA with Extended Character-set for Fast Deep Packet Inspection, In Proceedings of IEEE International Conference on Parallel Processing (**ICPP**), 2011.
- [32] **Cong Liu**, Jie Wu, Xin Guan, Li Chen. Cooperative File Sharing in Hybrid Delay Tolerant Networks. In Proceedings of Workshop on Wireless Ad hoc and Sensor Networks (**WWASN**), 2011.
- [33] Ai Chen, Zhizhou Li, Ten-Hwang Lai, **Cong Liu**. One-Way Barrier Coverage with Wireless Sensors, In Proceedings of IEEE Conference on Computer Communications (**INFOCOM**), Mini-Conference, 2011.
- [34] Xin Guan, **Cong Liu**, Min Chen, Hongyang Chen, Tomoaki Ohtsuki. Internal Threats Avoiding based Forwarding Protocol in Social Selfish Delay Tolerant Networks, In Proceedings of IEEE International Conference on Communications (**ICC**), 2011.
- [35] Dianjie Lu, Xiaoxia Huang, **Cong Liu**, and Jianping Fan. Adaptive Power Control Based Spectrum Handover for Cognitive Radio Networks. In Proceedings of IEEE Wireless Communications and networking Conference (**WCNC**), 2010.
- [36] **Cong Liu** and Jie Wu. An Optimal Probabilistic Forwarding Protocol in Delay Tolerant Networks. In *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2009.
- [37] **Cong Liu** and Jie Wu. Efficient Geometric Routing in Three Dimensional Ad Hoc Networks. In *Proceedings of IEEE Conference on Computer Communications (INFOCOM)*, Mini-Conference, 2009.
- [38] **Cong Liu**, Jie Wu, and Ionut Cardei. Message Forwarding in Cyclic MobiSpace: the Multi-copy Case. In *Proceedings of IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, 2009.
- [39] **Cong Liu** and Jie Wu. Efficient Adaptive Routing in Delay Tolerant Networks. In *Proceedings of IEEE International Conference on Communications (ICC)*, 2009.
- [40] **Cong Liu** and Jie Wu. Routing in a Cyclic MobiSpace. In *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2008
- [41] **Cong Liu** and Jie Wu. Adaptive Routing in Dynamic Ad Hoc Networks. In *Proceedings of IEEE Wireless Communications and Networking Conference (WCNC)*, 2008.
- [42] Ionut Cardei, **Cong Liu**, Jie Wu, and Quan Yuan. DTN Routing with Probabilistic Trajectory Prediction. In *Proceedings of International Conference on Wireless Algorithms, Systems and Applications (WASA)*, 2008.
- [43] **Cong Liu** and Jie Wu. Scalable Routing in Delay Tolerant Networks. In *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2007.

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- [45] **Cong Liu** and Jie Wu. Position-based Routing using Virtual Small World in MANETs. In *Proceedings of the IEEE Global Communication Conference (GLOBECOM)*, 2006.
- [46] **Cong Liu** and Jie Wu. SWING: Small World Iterative Navigation Greedy Routing Protocol in MANETs. In *Proceedings of the International Conference on Computer Communication and Networks (ICCCN)*, 2006.
- [47] **Cong Liu**, Wei Huang, and Zhiguo Zhang. Performance Analysis of Virtual Time Optimistic Transaction Processing. In *Proceedings of Advanced Workshop on Content Computing (AWCC)*, 2004, Springer LNCS, 3309, 104-111.
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- [49] **Cong Liu**, Wei Huang, Zhiguo Zhang, and Gang Zhang. An Efficient Transaction Processing with Periodical Update and Predeclaration. In *Proceedings of International Symposium on Communication and Information (ISCI)*, 2004, 412-416.
- [50] Wei Huang, **Cong Liu**, and Xiaoping Ye. A Research on Knowledge Reduction of Information Systems Based On Sub-consciousness. In *Proceedings of International Conference on Intelligent Information Processing (ICIIP)*, 2004, Springer, 185-189.
- [51] Wei Huang, **Cong Liu**, and Gang Zhang. Information System Based on Sub-consciousness and Its Rough Set Method, In *Proceedings of International Conference on Machine Learning And Cybernetics (ICMLC)*, 2004, Vol. 4, 2328-2332.
- [52] 黄巍, 张金波, 刘聪. 基于潜意识的信息系统及其粗糙集方法, 第四届中国 Rough 集与软计算学术会议(CRSSC-2004),会议专集由国内核心期刊《计算机科学》出版.

期刊论文

- [1] Yao Xiao, Pengxu Wei, Guangrun Wang, **Cong Liu**, Liang Lin. Robust Source-free Domain Adaptation from Non-robust Source Models. *IEEE Transactions on Image Processing*, 2026
- [2] Ye Liu, Yan Pan, Hanjiang Lai, **Cong Liu**, Jian Yin. Margin-based two-stage supervised hashing for image retrieval. *Elsevier Neurocomputing*, 2016.7.8, 214: 894-901.
- [3] Ai Chen, Ying Zhu, Zhizhou Li, Ten H. Lai, **Cong Liu**. Is one-way barrier coverage achievable using comprehensive sensors?. *Elsevier Computer Communications*, Volume 57, 15 February 2015, Pages 100–114.
- [4] Mingjiong Liang, Zhiguo Zhang, **Cong Liu**, and Li Chen. Multihop Delivery Quality Based Routing in DTNs, *IEEE Transactions on Vehicular Technology (TVT)*, 2015, Volume: 64, Issue: 3, Pages: 1095 - 1104.
- [5] **Cong Liu**, Yan Pan, Ai Chen, and Jie Wu. A DFA with Extended Character-set for Fast Deep Packet Inspection, *IEEE Transactions on Computers (TC)*, Vol. 63, No. 8, Aug. 2014, 1925-1937.
- [6] Lei Zhou, Ying Zhu, Ai Chen, and **Cong Liu**. A Simulation Platform for ZigBee-UMTS Hybrid Networks, *IEEE Communication Letters*, Vol. 17, No. 2, Feb. 2013, 293-296.
- [7] Hanjiang Lai, Yan Pan, **Cong Liu**, Liang Lin, and Jie Wu. Sparse Learning-to-Rank via an Efficient Primal-Dual Algorithm, *IEEE Transactions on Computers (TC)*, Vol. 62, No. 6, Feb. 2013, 1221-1233.
- [8] **Cong Liu** and Jie Wu. Fast Deep Packet Inspection with a Dual Finite Automata. *IEEE Transactions*

on Computers (**TC**), Vol. 62, No. 2, Feb. 2013, 310-321.

- [9] **Cong Liu** and Jie Wu. On Multicopy Opportunistic Forwarding Protocols in Nondeterministic Delay Tolerant Networks. *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 23, No. 6, June 2012, 1121-1128.
- [10] **Cong Liu** and Jie Wu. Practical Routing in a Cyclic MobiSpace. *IEEE/ACM Transactions on Networking (ToN)*, Vol. 19, No. 2, April 2011, 369-382.
- [11] **Cong Liu** and Jie Wu. Scalable Routing in Cyclic Mobile Networks. *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 20, No. 9, September 2009, 1325-1338.
- [12] **Cong Liu** and Jie Wu. Virtual-Force-Based Geometric Routing Protocol in MANETs. *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Vol. 20, No. 4, April 2009, 433-445.
- [13] 张治国, **刘聪**, 张鹏, 移动 AdHoc 网络中保证覆盖的准确计时可靠链路方法, 软件学报, 2007 年第 07 期, 219-227.
- [14] 黄巍, **刘聪**, 不确定决策系统及其一种粗糙集方法, 复旦学报(自然科学版). 2004 年 10 月。
- [15] 黄巍, 叶小平, **刘聪**, 一种扩展的不完备决策系统的 Rough 集方, 计算机应用. 2004 年 S1 期。

教科书章节

- [1] Yifeng Shao, **Cong Liu**, and Jie Wu. Delay Tolerant Networks in VANETs. To appear in *Handbook of Vehicular Networks*, 2008.
- [2] Ionut Cardei, **Cong Liu**, and Jie Wu. Routing In Wireless Networks with Intermittent Connectivity. *Encyclopedia of Wireless and Mobile Communications*, CRC Press, Taylor & Francis Group, 2007.

海报论文

- [1] **Cong Liu** and Jie Wu. Poster Abstract: Force-based Geometric Routing. In *Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc) (Poster Abstract)*, 2008.

教学论文

- [1] 吴迪, 何坚, 潘嵘, **刘聪**. 基于 VMware 虚拟网络的 IPSec 实验教学. 实验技术与管理, 第 27 卷, 第 9 期, 2010 年 9 月。