**Biography of Professor Hong Shen**

Hong Shen is Professor of Information and Communication Technology in Central Queensland University. He held professorial appointments in research-intensive universities including specially-appointed Professor under the title of “China National Endowed Expert” and Director of Institute of Advanced Computing in Sun Yat-sen University, Professor (Chair of Computer Science) and Leader of Faculty Research Group “Networks, Parallel and Distributed Systems” in University of Adelaide, Professor and Head of the Computer Networks Laboratory (department-level unit) in Japan Advanced Institute of Science and Technology. With main research interests in ***parallel and distributed computing, network optimization, privacy-preserving computing***, ***social computing*** and ***machine leaning***, he published more than **500** research papers including over 100 papers in major journals such as variety of *IEEE and ACM Transactions.* With **7,600+** citations (google scholar), he has an **h-index 42** and **i10-index 192** in the hardcore fields of systems and algorithms (parallel and distributed computing).

Prof. Shen served on editorial roles for 11 international journals, chaired numerous international conferences, and served on program committees for more than 80 international conferences. He delivered keynote speeches at many conferences, and received numerous honors and awards including Science and Technology Progress Award of Ministry of Education of China, Natural Sciences Award of Chinese Academy of Sciences, and best paper awards from several conferences.

* **Selected International Journal Publications (https://dblp.org/pid/74/3247-1.html)**

1. **Most Recent Work (2024-25)**
2. [Yufei Han](https://dblp.org/pid/74/2507.html), [Chao Li](https://dblp.org/pid/66/190.html), [Jianbiao Zhang](https://dblp.org/pid/227/4261.html), [Yifan Wang](https://dblp.org/pid/47/6959.html), [Lehao Yu](https://dblp.org/pid/388/8757.html), [Yihao Cao](https://dblp.org/pid/307/5976.html), Hong Shen, [Weixing Hou](https://dblp.org/pid/388/8727.html), [Hailin Luo](https://dblp.org/pid/388/9359.html): DMSCTS: Dynamic measurement scheme for the containers-hybrid-deployment based on trusted subsystem. [Comput. Secur. 148](https://dblp.org/db/journals/compsec/compsec148.html#HanLZWYCSHL25): 104158 (2025)
3. [Dong Wang](https://dblp.org/pid/40/3934.html), Hong Shen, [Hui Tian](https://dblp.org/pid/57/1592-1.html), [Yuanhao Yang](https://dblp.org/pid/237/7213.html): Schedule multi-instance microservices to minimize response time under budget constraint in cloud HPC systems. [J. Parallel Distributed Comput. 202](https://dblp.org/db/journals/jpdc/jpdc202.html#WangSTY25): 105086 (2025)
4. [Xiangdong Yang](https://dblp.org/pid/07/2360.html), [Huaiwen He](https://dblp.org/pid/201/1787.html), Hong Shen, [Aiguo Chen](https://dblp.org/pid/16/10735.html), [Hui Tian](https://dblp.org/pid/57/1592-1.html): Efficient Binary Task Offloading Optimization in Large-Scale IoT Networks via UAV-Enhanced Mobile Edge Computing. [WoWMoM 2025](https://dblp.org/db/conf/wowmom/wowmom2024.html#YangH0C025): 33-38
5. [Luodi Xie](https://dblp.org/pid/283/6067.html), Hong Shen, [Jiaxin Ren](https://dblp.org/pid/251/9532.html), [Huimin Huang](https://dblp.org/pid/03/8493.html): Network embedding on metric of relation. [Appl. Soft Comput. 167](https://dblp.org/db/journals/asc/asc167.html#XieSRH24): 112443 (2024)
6. [Zhengxiong Hou](https://dblp.org/pid/46/5393.html), Hong Shen, [Qiying Feng](https://dblp.org/pid/257/9710.html), [Zhiqi Lv](https://dblp.org/pid/384/1416.html), [Junwei Jin](https://dblp.org/pid/160/2368.html), [Xingshe Zhou](https://dblp.org/pid/88/20-1.html), [Jianhua Gu](https://dblp.org/pid/22/4705.html): Optimizing job scheduling by using broad learning to predict execution times on HPC clusters. [CCF Trans. High Perform. Comput. 6(4)](https://dblp.org/db/journals/ccfthpc/ccfthpc6.html#HouSFLJZG24): 365-377 (2024)
7. [Diksha Goel](https://dblp.org/pid/214/9000.html), Hong Shen, [Hui Tian](https://dblp.org/pid/57/1592-1.html), [Mingyu Guo](https://dblp.org/pid/62/5599.html): Effective graph-neural-network based models for discovering Structural Hole Spanners in large-scale and diverse networks. [Expert Syst. Appl. 249](https://dblp.org/db/journals/eswa/eswa249.html#GoelSTG24): 123636 (2024)
8. [Tongyu Wu](https://dblp.org/pid/199/7638.html), [Huaiwen He](https://dblp.org/pid/201/1787.html), Hong Shen, [Hui Tian](https://dblp.org/pid/57/1592-1.html): Energy-Efficiency Maximization for Relay-Aided Wireless-Powered Mobile Edge Computing. [IEEE Internet Things J. 11(10)](https://dblp.org/db/journals/iotj/iotj11.html#WuHST24): 18534-18548 (2024)
9. [Huaiwen He](https://dblp.org/pid/201/1787.html), [Xiangdong Yang](https://dblp.org/pid/07/2360.html), [Feng Huang](https://dblp.org/pid/19/6809.html), Hong Shen, [Hui Tian](https://dblp.org/pid/57/1592-1.html): Enhancing QoE in Large-Scale U-MEC Networks via Joint Optimization of Task Offloading and UAV Trajectories. [IEEE Internet Things J. 11(21)](https://dblp.org/db/journals/iotj/iotj11.html#HeYHST24): 35710-35723 (2024)
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11. [Huimin Huang](https://dblp.org/pid/03/8493.html), [Luodi Xie](https://dblp.org/pid/283/6067.html), [Mingzhe Liu](https://dblp.org/pid/75/561.html), [Jiajun Lin](https://dblp.org/pid/87/902.html), Hong Shen:An embedding model for temporal knowledge graphs with long and irregular intervals. [Knowl. Based Syst. 296](https://dblp.org/db/journals/kbs/kbs296.html#HuangXLLS24): 111893 (2024)
12. [Xin Mi](https://dblp.org/pid/166/6801.html), [Huaiwen He](https://dblp.org/pid/201/1787.html), Hong Shen: A Multi-Agent RL Algorithm for Dynamic Task Offloading in D2D-MEC Network with Energy Harvesting. [Sensors 24(9)](https://dblp.org/db/journals/sensors/sensors24.html#MiHS24): 2779 (2024)
13. [Jianshan Zhang](https://dblp.org/pid/234/7991.html), [Haibo Luo](https://dblp.org/pid/28/2663.html), [Xing Chen](https://dblp.org/pid/89/120-2.html), Hong Shen, [Longkun Guo](https://dblp.org/pid/95/9687.html): Minimizing Response Delay in UAV-Assisted Mobile Edge Computing by Joint UAV Deployment and Computation Offloading. [IEEE Trans. Cloud Comput. 12(4)](https://dblp.org/db/journals/tcc/tcc12.html#ZhangLCSG24): 1372-1386 (2024)
14. [Yihao Cao](https://dblp.org/pid/307/5976.html), [Jianbiao Zhang](https://dblp.org/pid/227/4261.html), [Yaru Zhao](https://dblp.org/pid/233/4833.html), Hong Shen, [Haoxiang Huang](https://dblp.org/pid/204/8433.html): Privacy-Preserving Federated Learning With Improved Personalization and Poison Rectification of Client Models. [IEEE Trans. Inf. Forensics Secur. 19](https://dblp.org/db/journals/tifs/tifs19.html#CaoZZSH24): 8845-8859 (2024)
15. [Xin Wang](https://dblp.org/pid/10/5630.html), Hong Shen, [Hui Tian](https://dblp.org/pid/57/1592-1.html): Scheduling Coflows in Hybrid Optical-Circuit and Electrical-Packet Switches With Performance Guarantee. [IEEE/ACM Trans. Netw. 32(3)](https://dblp.org/db/journals/ton/ton32.html#WangST24): 2299-2314 (2024)
16. [Yuanhao Yang](https://dblp.org/pid/237/7213.html), Hong Shen, [Hui Tian](https://dblp.org/pid/57/1592-1.html): Scheduling Workflow Tasks With Unknown Task Execution Time by Combining Machine-Learning and Greedy-Optimization. [IEEE Trans. Serv. Comput. 17(3)](https://dblp.org/db/journals/tsc/tsc17.html#YangST24): 1181-1195 (2024)

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2. [Tianxing Wang](https://dblp.org/pid/04/9866-4.html), [Can Wang](https://dblp.org/pid/71/4716-4.html), [Hui Tian](https://dblp.org/pid/57/1592-1.html), Hong Shen: GeoMixer: The MLP-Based Sequential POI Recommender with Travel Routing Modelling. [ICDM 2023](https://dblp.org/db/conf/icdm/icdm2023.html#Wang00023): 1373-1378
3. [Hui Tian](https://dblp.org/pid/57/1592-1.html), [Lulu Wang](https://dblp.org/pid/28/1751-8.html), Hong Shen, [Alan Wee-Chung Liew](https://dblp.org/pid/76/2013.html): Improved Ensemble Classification for Evolving Data Streams. [IEEE Intell. Syst. 37(1)](https://dblp.org/db/journals/expert/expert37.html#TianWSL22): 38-50 (2022)
4. [Huaiwen He](https://dblp.org/pid/201/1787.html), Hong Shen, [Qing Hao](https://dblp.org/pid/09/8739.html), [Hui Tian](https://dblp.org/pid/57/1592-1.html): Online delay-guaranteed workload scheduling to minimize power cost in cloud data centers using renewable energy. [J. Parallel Distributed Comput. 159](https://dblp.org/db/journals/jpdc/jpdc159.html#HeSHT22): 51-64 (2022)
5. [Zhigang Lu](https://dblp.org/pid/91/7802-1.html), Hong Shen: Augmentation-Based Edge Differentially Private Path Publishing in Networks. [IEEE Trans. Netw. Serv. Manag. 19(4)](https://dblp.org/db/journals/tnsm/tnsm19.html#LuS22): 5183-5195 (2022)
6. Yuanhao Yang, Hong Shen\*, “Deep Reinforcement Learning Enhanced Greedy Algorithm for Online Scheduling of Batched Tasks in Cloud HPC Systems”， IEEE Transactions on Parallel and Distributed Systems, Dec. 2021, DOI: 10.1109/TPDS.2021.3138459
7. Huaiwen He, Hong Shen\*, Qing Hao, Hui Tian, “Online delay-guaranteed workload scheduling to minimize power cost in cloud data centers using renewable energy”, Journal of Parallel and Distributed Systems, Oct. 2021, DOI: 10.1016/j.jpdc.2021.09.002
8. [Zhansheng Chen](https://dblp.org/pid/176/4824.html), [Hui Tian](https://dblp.org/pid/57/1592-1.html), Hong Shen: Improve the quality of charging services for rechargeable wireless sensor networks by deploying a mobile vehicle with multiple removable chargers. [Wirel. Networks 28(7)](https://dblp.org/db/journals/winet/winet28.html#ChenTS22): 2805-2819 (2022)
9. [Yuanquan Shi](https://dblp.org/pid/157/5018.html), Hong Shen: Unsupervised anomaly detection for network traffic using artificial immune network. [Neural Comput. Appl. 34(15)](https://dblp.org/db/journals/nca/nca34.html#ShiS22): 13007-13027 (2022)
10. Huaiwen He, Hong Shen\*, "Minimizing the Operation Cost of Distributed Green Data Centers with Energy Storage Under Carbon Capping", Journal of Computer and System Sciences (JCSS), 118:21-52 (2021)
11. [Zhigang Lu](https://dblp.org/pid/91/7802-1.html), Hong Shen: Differentially Private k-Means Clustering With Convergence Guarantee. [IEEE Trans. Dependable Secur. Comput. 18(4)](https://dblp.org/db/journals/tdsc/tdsc18.html#LuS21): 1541-1552 (2021)
12. [Huaiwen He](https://dblp.org/pid/201/1787.html), Hong Shen: Minimizing the operation cost of distributed green data centerswith energy storage under carbon capping. [J. Comput. Syst. Sci. 118](https://dblp.org/db/journals/jcss/jcss118.html#HeS21): 28-52 (2021)
13. [Songyuan Li](https://dblp.org/pid/160/2310.html), [Hui Tian](https://dblp.org/pid/57/1592-1.html), Hong Shen, [Yingpeng Sang](https://dblp.org/pid/34/6767.html): Privacy-Preserving Trajectory Data Publishing by Dynamic Anonymization with Bounded Distortion. [ISPRS Int. J. Geo Inf. 10(2)](https://dblp.org/db/journals/ijgi/ijgi10.html#LiTSS21): 78 (2021)
14. [Dieyan Liang](https://dblp.org/pid/199/1817.html), Hong Shen, [Lin Chen](https://dblp.org/pid/13/3479.html): Maximum Target Coverage Problem in Mobile Wireless Sensor Networks. [Sensors 21(1)](https://dblp.org/db/journals/sensors/sensors21.html#LiangSC21): 184 (2021)
15. [Dieyan Liang](https://dblp.org/pid/199/1817.html), Hong Shen: Efficient Algorithms for Max-Weighted Point Sweep Coverage on Lines. [Sensors 21(4)](https://dblp.org/db/journals/sensors/sensors21.html#LiangS21): 1457 (2021)
16. [Benbo Zha](https://dblp.org/pid/240/2546.html), Hong Shen: Improved probabilistic I/O scheduling for limited-size Burst-Buffers deployed HPC. [Parallel Comput. 101](https://dblp.org/db/journals/pc/pc101.html#ZhaS21): 102708 (2021)
17. [Huimin Huang](https://dblp.org/pid/03/8493.html), [Zaiqiao Meng](https://dblp.org/pid/185/0748.html), Hong Shen: Competitive and complementary influence maximization in social network: A follower's perspective. [Knowl. Based Syst. 213](https://dblp.org/db/journals/kbs/kbs213.html#HuangMS21): 106600 (2021)
18. Neetesh Saxen, Hong Shen, Nikos Komninos, Kim-Kwang Raymond Choo, and Narendra S. Chaudhari, “BVPSMS: A Batch Verification Protocol for End-to-End Secure SMS for Mobile Users”,[IEEE Transactions on Dependable and Secure Computing](https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8858), [17(3)](https://dblp.org/db/journals/tdsc/tdsc17.html#SaxenaSKCC20): 550-565 (2020).
19. Huimin Huang, Hong Shen, Zaiqiao Meng, Community-based influence maximization in attributed networks,.[Appl. Intell. 50(2)](https://dblp.uni-trier.de/db/journals/apin/apin50.html#HuangSM20): 354-364 (2020).
20. [Songyuan Li](https://dblp.org/pid/160/2310.html), [Hong Shen](https://dblp.org/pid/74/3247-1.html), [Yingpeng Sang](https://dblp.org/pid/34/6767.html), Hui Tian: An efficient method for privacy-preserving trajectory data publishing based on data partitioning. [J. Supercomput. 76(7)](https://dblp.org/db/journals/tjs/tjs76.html#LiSST20): 5276-5300 (2020).
21. Hui Tian, [Wenwen Sheng](https://dblp.org/pid/253/9120.html), [Hong Shen](https://dblp.org/pid/74/3247-1.html), [Can Wang](https://dblp.org/pid/71/4716-4.html): Truth finding by reliability estimation on inconsistent entities for heterogeneous data sets. [Knowl. Based Syst. 187](https://dblp.org/db/journals/kbs/kbs187.html#TianSSW20) (2020).
22. Wenting Wei, Kun Wang, Kexin Wang, Huaxi Gua, Hong Shen, “Multi-resource balance optimization for virtual machine placement in cloud data centers”, ﻿ Computers and Electrical Engineering 88:106866 (2020).
23. [Zexi Deng](https://dblp.org/pid/246/3807.html), [Zihan Yan](https://dblp.org/pid/225/9896.html), [Huimin Huang](https://dblp.org/pid/03/8493.html), Hong Shen: Energy-Aware Task Scheduling on Heterogeneous Computing Systems With Time Constraint. [IEEE Access 8](https://dblp.org/db/journals/access/access8.html#DengYHS20): 23936-23950 (2020).
24. [Yuanquan Shi](https://dblp.org/pid/157/5018.html),Hong Shen: Anomaly Detection for Network Flow Using Immune Network and Density Peak. [Int. J. Netw. Secur. 22(2)](https://dblp.org/db/journals/ijnsec/ijnsec22.html#ShiS20): 337-346 (2020).
25. Shuangjuan Li, Hong Shen, Qiong Huang, Longkun Guo: Optimizing the Sensor Movement for Barrier Coverage in a Sink-Based Deployed Mobile Sensor Network, IEEE Access, vol. 7, pp. 156301–156314, doi:10.1109/ACCESS.2019.2949025 (2019).
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40. Longkun Guo and Hong Shen: Efficient Approximation Algorithms for the Bounded Flexible Scheduling Problem in Clouds. IEEE Transactions on Parallel and Distributed Systems. 28(12): 3511-3520 (2017).
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* **Currently Government Funded Research Projects:**
* Project Leader: Queensland State Department of Environment and Science， “AI-Quantum Nexus: Revolutionizing Group Communication for Large Sport Event”, ~$1 million, 2025-2027.
* Project Leader: Science and Technology Development Fund of Macao (FDCT)， “Multimodal fusion optimization model and method for adaptive scheduling of massive microservices in cloud computing， ~2 million Chinese yuan, 2024-2026.
* Project Leader: Science and Technology Development Fund of Macao (FDCT)， “Public safety incident discovery and tracing in low-resourced IoT environments, ~2 million Chinese yuan, 2024-2026.