

Publications

A. Books authored/edited

1. Author: *Efficient Design and Implementation of Parallel Algorithms*, Abo Akademi Press, Finland, 1991.
2. Lecture Notes in Electrical Engineering 368: *Advances in Parallel and Distributed Computing and Ubiquitous Services*, Springer, 2016. (editors: J. Park, G. Yi, Y-S Jeong, H. Shen).
3. Proc. of the 17th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2016), IEEE Press, 2016. (editors: H. Shen, Y. Sang, H. Tian)
4. Proc. of the Sixth International Symposium on Parallel Architectures, Algorithms and Programming (PAAP 2014), IEEE Press, 2014. (editors: H. Shen, Y. Sang, H. Tian)
5. Proc. of the 13th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2012), IEEE Press, 2012. (editors: H. Shen, Y. Sang, Y. Li, D. Qian, A. Zomaya)
6. Proc. of the Fifth International Symposium on Parallel Architectures, Algorithms and Programming (PAAP 2012), IEEE Press, 2011. (editors: S. Horng, H. Shen)
7. Proc. of the Fourth International Symposium on Parallel Architectures, Algorithms and Programming (PAAP 2011), IEEE Press, 2011. (editors: J. Wu, G. Song, H. Shen, G. Chen)
8. Proc. of the Third International Symposium on Parallel Architectures, Algorithms and Programming (PAAP 2010), IEEE Press, 2010. (editors: W. Liang, X. Zhang, H. Shen, Y. Tian, C. Zhong)
9. Proc. of the Second International Symposium on Parallel Architectures, Algorithms and Programming (PAAP 2009), USTC Press, 2009. (editors: Y. Tian, H. Shen, C. Zhong)
10. Proc. of the Inaugural Symposium on Parallel Algorithms, Architectures and Programming (PAAP 2008), 2008. (editors: H. Shen, G. Sun, Y. Tian, M. Lv)
11. Proc. of the 9th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2008), IEEE Computer Society, 2008. (editors: Z. Huang, Z. Xu, N. Rountree, L. Lefevre, H. Shen, J. Hine, Yi Pan)
12. Proc. of the 8th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2007), IEEE Computer Society, 2007. (editors: D. Murno, H. Shen, Q. Sheng, et. al)
13. Proc. of the 6th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2005), IEEE Computer Society, 2005. (editors: H. Shen and K. Nakano)
14. Lecture Notes on Computer Science 3320 (Proc. of the 5th International Conference on Parallel and Distributed Computing, Applications and Technologies), Springer Verlag, 2004. (editors: K. Liew, H. Shen et. al.)
15. Proc. of the 4th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2003), IEEE Communication Society, 2003. (editors: P. Fan and H. Shen)
16. Proc. of the 3rd International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2002), 2002. (editors: S. Horiguchi and H. Shen)
17. Proc. of the 2nd International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2001), IEEE Communication Society, 2001. (editors: Y. Lin and H. Shen)

18. Associate Editor: Proceedings of *1998 International Conference on Parallel and Distributed Processing Techniques and Applications* (PDPTA' 98), CSREA Publications, Las Vegas, USA, 1998.
19. Editor: Proceedings of *2nd International Conference on Parallel and Distributed Computing and Networks* (PDCN' 98), IASTED Publications, Brisbane, Australia, 1998.
20. Editor: Proceedings of *1996 Australasian Conf. on Parallel and Real-Time Computing* (PART' 96), Griffith University Press, Brisbane, 1996.

B. Papers in Refereed Journals (with ERA rankings for 2009-)

1. (ERA A) 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*, VOL. 15, NO. X, XXXXX 2018 (<https://ieeexplore.ieee.org/document/8274977/>)
2. (ERA A) Zaiqiao Meng, Hong Shen, Huimin Huang, Wei Liua , Jing Wang, Arun Kumar Sangaiah, "Search Result Diversification on Attributed Networks via Nonnegative Matrix Factorization", *Information Processing and Management*, Vol. xxx, No. xx, 2018 (<https://www.sciencedirect.com/science/article/pii/S0306457318300578>)
3. (ERA A) Huaiwen He, Hong Shen and Dieyan Liang, "Cost-Minimizing Online Algorithm for Internet Green Data Centers On Multi-source Energy", *Concurrency and Computation: Practice and Experience*, to appear (accepted August 2018).
4. Zaiqiao Meng, Hong Shen, "Scalable Aspects Learning for Intent-Aware Diversified Search on Social Networks", *IEEE Access*, Vol. 6, Issue. 1, pp. 37124-37137, 2018. <https://ieeexplore.ieee.org/document/8398207>. [IF 3.557]
5. (ERA B) Zaiqiao Meng , Hong Shen, "Dissimilarity-constrained node attribute coverage diversification for novelty-enhanced top-k search in large attributed networks", *Knowledge-Based Systems*, Volume 150, 15 June 2018, Pages 85-94. (<https://www.sciencedirect.com/science/article/pii/S0950705118301266>).
6. (ERA B) Hui Tian, Jingtian Liu, Hong Shen, "Diffusion Wavelet-based Privacy Preserving in social networks", *Computers & Electrical Engineering*, Vol. 67, pp. 415-424, 2018.
7. (ERA A*) 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).
8. (ERA A*) Longkun Guo, Hong Shen, and Wenxing Zhu: Efficient Approximation Algorithms for Multi-Antennae Largest Weight Data Retrieval. *IEEE Transactions on Mobile Computing*. 16(12): 3320-3333 (2017).
9. (ERA A) Yan Wang, Hong Shen, Jianxi Fan: Edge-independent spanning trees in augmented cubes. *Theor. Comput. Sci.* 670: 23-32 (2017)

10. **(ERA A)** Shangsong Liang, Emine Yilmaz, Hong Shen, Maarten De Rijke, W. Bruce Croft: Search Result Diversification in Short Text Streams. *ACM Transactions on Information Systems (TOIS)*. 36(1): 8:1–8:35 (2017)
11. **(ERA B)** Zhangcheng Qiu, Hong Shen: User clustering in a dynamic social network topic model for short text streams. *Inf. Sci.*414: 102–116 (2017)
12. **(ERA B)** Ping He, Hong Shen, Longkun Guo, Yidong Li: Efficient data retrieval algorithms for multiple requests in MIMO wireless networks. *Int. J. Communication Systems* 30(1) (2017)
13. Hui Tian, Jingtian Liu and Meimei Ding, Promising Techniques for Anomaly Detection on Network Traffic, *Computer Science and Information System* 14 (3): 597–609, Sep. 2017.
14. Lu Cao and Hong Shen: Imbalanced Data Classification by Combining Hybrid Re-sampling with Twin Support Vector Machine. *Computer Science and Information Systems*. 14(3): 579 – 595 (2017).
15. **(ERA A)** Yingpeng Sang, Hong Shen, Hui Tian, Zonghua Zhang: Achieving Probabilistic Anonymity in a Linear and Hybrid Randomization Model, *IEEE Transactions on Information Forensics and Security*. 11(10): 2187–2202 (2016).
16. **(ERA B)** Xiaofan Zhao, Hong Shen: Online algorithms for 2D bin packing with advice. *Neurocomputing* 189C: 25–32 (2016).
17. **(ERA A*)** Wenhao Shu, Hong Shen: Multi-criteria feature selection on cost-sensitive data with missing values. *Pattern Recognition* 51: 268–280 (2016)
18. **(ERA B)** Ke Ji, Hong Shen: Jointly modeling content, social network and ratings for explainable and cold-start recommendation. *Neurocomputing* 218: 1–12 (2016)
19. **(ERA B)** Yidong Li, Hong Shen, Congyan Lang, Hairong Dong: Practical anonymity models on protecting private weighted graphs. *Neurocomputing* 218: 359–370 (2016)
20. Ping He, Hong Shen, Yidong Li: Tree-based data retrieval algorithm for multi-item request with deadline in wireless networks. *Peer-to-Peer Networking and Applications* 9(1): 92–107 (2016)
21. Xiaofan Zhao, Hong Shen: On-Line Algorithms for 2-Space Bounded Cube and Hypercube Packing. *Tsinghua Science and Technology (Springer International Journal on Information Science and Technology)* 20(3) : 255–263 (2015).
22. **(ERA B)** Ke Ji, Hong Shen: Making recommendations from top-N user-item subgroups. *Neurocomputing* 165: 228–237 (2015)
23. **(ERA B)** Longkun Guo, Hong Shen, Kewen Liao: Improved approximation algorithms for computing k disjoint paths subject to two constraints. *J. Comb. Optim.* 29(1): 153–164 (2015)
24. **(ERA A)** Ping He, Hong Shen, Hui Tian: On-demand data broadcast with deadlines for avoiding conflicts in wireless networks. *Journal of Systems and Software* 103: 118–127 (2015)
25. **(ERA B)** Ke Ji, Hong Shen: Addressing cold-start: Scalable recommendation with tags and keywords. *Knowledge-Based Systems* 83: 42–50 (2015)

26. **(ERA A)** Kewen Liao, Hong Shen, Longkun Guo: Improved approximation algorithms for constrained fault-tolerant resource allocation. *Theor. Comput. Sci.* 590: 118–128 (2015)
27. **(ERA B)** Ping He, Hong Shen, Longkun Guo, Yidong Li, “Efficient Data Retrieval Algorithms for Multiple Requests in MIMO Wireless Networks”, *International Journal of Communication Systems*, in press (DOI: 10.1002/dac.2917).
28. **(ERA A*)** Yanbo Wu, Hong Shen, and Quan Z. Sheng, “A Cloud-Friendly RFID Trajectory Clustering Algorithm in Uncertain Environments”, *IEEE Transactions on Parallel and Distributed System* 26(8): 2075–2088 (2015).
29. Ping He, Hong Shen, Efficient Data Retrieval Algorithms for Avoiding 2-slot Conflicts in Wireless Data Broadcast, *Ad Hoc & Sensor Wireless Networks* 29(1-4): 287–310 (2015).
30. Zhigang Lu, Hong Shen: An accuracy-assured privacy-preserving recommender system for Internet commerce. *Comput. Sci. Inf. Syst.* 12(4): 1307–1326 (2015).
31. Lingjing Kong, Hong Shen: Achieving inter-domain routing security based on distributed translator trust model. *Comput. Sci. Inf. Syst.* 12(4): 1327–1344 (2015).
32. **(ERA A*)** Wenhao Su and Hong Shen, “Incremental Feature Selection Based on Rough Set in Dynamic Incomplete Data”, *Pattern Recognition*, 47(12): 3890–3906 (2014).
33. **(ERA B)** Jun Wu, Zhi-Bo Xiao, Hai-Shuai Wang, Hong Shen: Learning with both unlabeled data and query logs for image search. *Computers & Electrical Engineering* 40(3): 964–973 (2014).
34. **(ERA B)** Hui Tian, Binze Zhong, Hong Shen: Diffusion wavelet-based analysis on traffic matrices by different diffusion operators. *Computers & Electrical Engineering* 40(6): 1874–1882 (2014)
35. **(ERA B)** Hui Tian, Hong Shen, Yingpeng Sang: Maximizing network lifetime in wireless sensor networks with regular topologies. *The Journal of Supercomputing* 69(2): 512–527 (2014)
36. **(ERA A*)** Kewen Liao and Hong Shen, “LP-Based Approximation Algorithms for Reliable Resource Allocation”, *The Computer Journal*, Oxford Press, 57(1): 154–164 (2014).
37. **(ERA B)** Wenhao Shu and Hong Shen. Updating attribute reduction in incomplete decision systems with the variation of attribute set, *International Journal of Approximate Reasoning*, 55(3): 867–884 (2014).
38. Hong Shen and Shihong Xu, Approximation Algorithms for Fault Tolerant for Facility Application, *SIAM Journal on Discrete Mathematics*, 27(3): 1584–1609, (2013).
39. **(ERA A*)** Hong Shen and Longkun Guo, “An 8-Approximation Algorithm for Computing Rooted 3-Vertex Connected Minimum Steiner Networks”, *IEEE Transactions on Computers*, 62(9): 1684–1693 (2013).
40. **(ERA A)** Yidong Li and Hong Shen. On Identity Disclosure Control for Hypergraph-based Data Publishing, *IEEE Transactions on Information Forensics and Security*, 8(8): 1384–1396 (2013).
41. **(ERA A*)** Jun Wu, Hong Shen, Yidong Li, Zhi-Bo Xiao, Ming-Yu Lu, Chun-Li Wang. Learning in A Hybrid Similarity Measure for Image Retrieval, *Pattern Recognition*, 46(11): 2927–2939 (2013).
42. **(ERA A*)** Longkun Guo and Hong Shen, “On Finding Min-Min Disjoint Paths”, *Algorithmica*, 66(3): 641–653 (2013).

43. (ERA A*) Yanbo Wu, Quan Z. Sheng, Hong Shen, and SheraliZeadally, “Modeling Object Flows from Distributed and Federated RFID Data Streams for Efficient Tracking and Tracing”. *IEEE Transactions on Parallel and Distributed Systems*, 24(10): 2036–2045 (2013).
44. (ERA B) Xuangou Wu, Yan Xiong, Wenchao Huang, Hong Shen, Mingxi Li, “An efficient compressive data gathering routing scheme for large-scale wireless sensor networks”, *Computers & Electrical Engineering*, 39(6): 1935–1946 (2013).
45. (ERA A*) Hong Shen and Longkun Guo, “Efficient 2-Approximation Algorithms for Computing 2-Connected Steiner Minimal Networks”, *IEEE Transactions on Computers*, 61(7): 954–968 (2012).
46. (ERA A) LongkunGuo and Hong Shen, “On the Complexity of the Edge-Disjoint Min-Min Problem in Planar Digraphs”, *Theoretical Computer Science*, Vol 432: 58–63 (2012).
47. (ERA A*) Yingpeng Sang, Hong Shen, HuiTian: Effective Reconstruction of Data Perturbed by Random Projections, *IEEE Transactions on Computers*, 61(1): 101–117 (2012).
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54. (ERA A*) Yawen Chen and Hong Shen, “Routing and wavelength assignment for hypercube in array-based WDM optical networks”, *Journal of Parallel and Distributed Computing*, 70(1):59 – 68, 2010.
55. (ERA A*) S.Q. Zheng, A. Gumaste, H. Shen, “A Parallel Self-Routing Rearrangeable Nonblocking Multi- $\log_2 N$ Photonic Switching Network”, *IEEE/ACM Transaction on Networking*, 18(2): 529–539 (2010).
56. W. Liu, J. Wu and H. Shen, “Architecture Design of an Integrated Communication and Broadcasting Network”, *Wireless Sensor Network* 2(12): 936–950 (2010).
57. (ERA A*) H. Zhang and H. Shen. “Energy-Efficient Beaconless Geographic Routing in Wireless Sensor Networks”, *IEEE Transactions on Parallel and Distributed Systems*, 21(6): 881–896 (2010)
58. (ERA A*) H. Shen and S. Xu, “Coordinated En-Route Web Caching in Multiserver Networks”, *IEEE Transactions on Computers*, 58(5): 605–619 (2009).
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