

Xiaowei Wu

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LG 101, Chow Yei Ching Building
Department of Computer Science
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Education and Experience

2015.09 – 2017.12 *Postdoctoral Research Fellow*, Department of Computer Science
The University of Hong Kong
2011.09 – 2015.08 *Ph.D.*, Department of Computer Science
The University of Hong Kong, Advisor: Dr. T-H. Hubert Chan
2007.09 – 2011.07 *B.E.*, Department of Computer Science
University of Science and Technology of China

Journal Publications

3. T-H. Hubert Chan, Fei Chen, Xiaowei Wu
Analyzing Node-Weighted Oblivious Matching Problem via Continuous LP with Jump Discontinuity
ACM Transaction on Algorithms (TALG). accepted
2. Jiafeng Hu, Xiaowei Wu, Reynold Cheng, Siqiang Luo, Yixiang Fang
On Minimal Steiner Maximum-Connected Subgraph Queries
Transactions on Knowledge and Data Engineering (TKDE). 2017
1. Petrie Wong, Cliz Sun, Eric Lo, Man Lung Yiu, Xiaowei Wu, Zhichao Zhao, T-H. Hubert Chan and Ben Kao
Finding k most influential edges on flow graphs
Information Systems. 2017

Conference Publications

11. Shuguang Hu, Xiaowei Wu and T-H. Hubert Chan
Maintaining Densest Subsets Efficiently in Evolving Hypergraphs
26th ACM International Conference on Information and Knowledge Management (CIKM 2017)
10. T-H. Hubert Chan, Shaofeng H.-C. Jiang, Zhihao Gavin Tang and Xiaowei Wu
Online Submodular Maximization Problem with Vector Packing Constraint
25th Annual European Symposium on Algorithms (ESA 2017)
9. T-H. Hubert Chan, Zhihao Gavin Tang and Xiaowei Wu
On $(1, \epsilon)$ -Restricted Max-Min Fair Allocation Problem
27th International Symposium on Algorithms and Computation (ISAAC 2016)
– Invited to **Algorithmica** (Special issue for selected papers from ISAAC 2016)

8. Jiafeng Hu, Xiaowei Wu, Reynold Cheng, Siqiang Luo, Yixiang Fang
Querying Minimal Steiner Maximum-Connected Subgraphs in Large Graphs
25th ACM International Conference on Information and Knowledge Management (**CIKM 2016**)
7. Melika Abolhassani, T-H. Hubert Chan, Fei Chen, Hossein Esfandiari, MohammadTaghi Haji-aghayi, Hamid Mahini and Xiaowei Wu
Beating Ratio 0.5 for Weighted Oblivious Matching Problems
24th Annual European Symposium on Algorithms (**ESA 2016**)
6. Xiaowei Wu and Chenzi Zhang
Efficient Algorithm for Computing All Low s - t Edge Connectivities in Directed Graphs
40th International Symposium on Mathematical Foundations of Computer Science (**MFCS 2015**)
5. T-H. Hubert Chan, Xiaowei Wu, Chenzi Zhang and Zhichao Zhao
Dynamic Tree Shortcut with Constant Degree
21st Annual International Computing and Combinatorics Conference (**COCOON 2015**)
4. Wenbin Tang and Xiaowei Wu
Decentralized P2P Protocol for Video-on-Demand Streaming: Simple and Efficient
12th IEEE International Conference on Networking, Sensing and Control (**ICNSC 2015**)
3. Wenbin Tang, Xiaowei Wu and T-H. Hubert Chan
An Incentive Protocol for Distributed Dynamic P2P Video-on-Demand Streaming
23rd International Conference on Computer Communication and Networks (**ICCCN 2014**)
2. Fei Chen and Xiaowei Wu
Perfect Pipelining for Streaming Large File in Peer-to-peer Networks
8th IFIP TC 1/WG 2.2 International Conference (**IFIP TCS 2014**)
1. T-H. Hubert Chan, Fei Chen, Xiaowei Wu and Zhichao Zhao
Ranking on Arbitrary Graphs: Rematch via Continuous LP with Monotone and Boundary Condition Constraints
25th Annual ACM-SIAM Symposium on Discrete Algorithms (**SODA 2014**)

Manuscripts

T-H. Hubert Chan, Zhihao Gavin Tang, Xiaowei Wu and Chenzi Zhang
Diffusion Operator and Spectral Analysis for Directed Hypergraph Laplacian

Zhiyi Huang, Ning Kang, Zhihao Gavin Tang, Xiaowei Wu and Yuhao Zhang
Online Makespan Minimization on Identical Machines: The Power of Restart

Zhiyi Huang, Ning Kang, Zhihao Gavin Tang, Xiaowei Wu, Yuhao Zhang and Xue Zhu
How to Match when All Vertices Arrive Online

Zhiyi Huang, Zhihao Gavin Tang, Xiaowei Wu and Yuhao Zhang
Beating $1 - \frac{1}{e}$ for Vertex Weighted Online Bipartite Matching with Random Arrivals

Professional Services

Program committee: COCOA 2016, COCOA 2017

Reviewer for submissions to conferences: ITCS 2018, SPAA 2017, ESA 2016, ISAAC 2015, IPDPS 2014, ISAAC 2013

Selected Honors

- 2016 *Nominated for the Li Ka Shing Prizes and the Awards for Outstanding Research Postgraduate Student 2014-15, The University of Hong Kong*
- 2014 *Hong Kong and China Gas Scholarship 2013-14, The University of Hong Kong*
- 2011 *Excellent Graduate, University of Science and Technology of China*

Teaching Assistants

- 2014 Fall CSIS1119/COMP2119A Introduction to Data Structures and Algorithms
- 2014 Spring CSIS0250/COMP3250B Design and Analysis of Algorithms (advanced class)
- 2013 Fall CSIS1123/COMP2123 Programming Technology and Tools
- 2012 Fall ENGG1007 Foundations of Computer Science
- 2012 Spring CSIS1118 Foundations of Computer Science

Skills and Interests

- Languages Mandarin, Cantonese, English
- Hobbies Basketball, Singing, Traveling