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Jian Li

Education

Bachelor of Science: 2000-2004: Department of City & Resource Planning, Sun Yat-sen University, P.R.China

Master of Science: 2004-2007: Department of Computer Science & Engineer, Fudan University, P.R.China (**Advisors:** Prof Hong Zhu, Prof Rudolf Fleischer)

Ph.D.: 2007-present: Department of Computer Science, University of Maryland, College Park, USA. (**Advisors:** Prof Samir Khuller, Prof Amol Deshpande)

Research Interest Algorithm Design and Analysis, Approximation Algorithms, Algorithmic Game Theory, Database System, Query Optimization.

Publications

Journal Articles

1. An $O(\log n / \log \log n)$ Upper Bound on the Price of Stability for Undirected Shapley Network Design Games. Jian Li. *Information Processing Letter (IPL)*, accepted for publication subject to a minor revision, 2009.
2. More Efficient Algorithms and Analyses for Unequal Letter Cost Prefix-Free Coding. Mordecai Golin, Jian Li. In *IEEE transaction on Information Theory* 54(8): 3412-3424, 2008.
3. (Chinese Paper) Improved Approximation Algorithms for Snow Blower Problem. with Haitao Wang and Hong Zhu. In *Journal of the Jilin University*, Vol.37, No.1, pp.151-154, 2007.

Articles in Refereed Conferences

1. Consensus Answers for Queries over Probabilistic Databases. Jian Li and Amol Deshpande. To appear in *28th ACM Symposium on Principles of Database Systems (PODS)*, 2009.
2. Minimizing Communication Cost in Distributed Multi-query Processing. Jian Li, Amol Deshpande, Samir Khuller. To appear in *Proceedings of the 25th International Conference on Data Engineering (ICDE)*, 2009.
3. More Efficient Algorithms and Analyses for Unequal Letter Cost Prefix-Free Coding. Mordecai Golin, Jian Li. In *Proceedings of the 18th International Symposium on Algorithms and Computation (ISAAC)*, Sendai, Japan, December 17-19, 2007.
4. Approximating the Maximum Sharing Problem. Amitabh Chaudhary, Danny Z. Chen, Rudolf Fleischer, Jian Li, Xiaobo S. Hu, Michael T. Niemier, Zhiyi Xie, Hong Zhu. In *Proceedings of 10th Workshop on Algorithms and Data Structures (WADS)*, Halifax, Canada, August 15-17, 2007.
5. Algorithms for core stability, core largeness, exactness, and extendability of flow games. Qizhi Fang, R. Fleischer, Jian Li, and Xiaoxun Sun. In *Proceedings of the 13th Annual International Computing and Combinatorics Conference (COCOON)*, Banff, Canada, July 16-19, 2007.

6. Efficient Algorithms for k -Disjoint Paths Problems on DAGs. Rudolf Fleischer, Qi Ge, Jian Li, Hong Zhu. In *Proceedings of the 3rd International Symposium on Algorithmic Aspects in Information and Management (AAIM)*, Portland, USA, 2007.
7. Approximating the Maximum Simple Sharing Problem. Danny Z. Chen, Rudolf Fleischer, Jian Li, Zhiyi Xie, Hong Zhu. In *Proceedings of the 17th International Symposium on Algorithms and Computation (ISAAC)*, pp.547-556, Kolkata, India, December 18-20, 2006.
8. Traversing the machining graph. Danny Z. Chen, R. Fleischer, Jian Li, Haitao Wang, and Hong Zhu. In *Proceedings of the 14th Annual European Symposium on Algorithms (ESA)*, pp.220-231, Zürich, Switzerland, Sep 11-13, 2006.
9. Non-metric multicommodity and multilevel facility location. R. Fleischer, Jian Li, Shijun Tian, and Hong Zhu. In *Proceedings of the 2nd International Symposium on Algorithmic Aspects in Information and Management (AAIM)*, pp.138-148 Hong Kong, Jun 20-22, 2006.
10. Approximating spanning trees with inner nodes cost. With R. Fleischer, Jian Li, Shijun Tian, Qi Ge, and Haitao Wang. In *Proceedings of the 6th International Conference on Parallel and Distributed Computing, Application and Technology (PDCAT)*, pp.660-664, Dalian, China, 2005.

Under Preparation

1. On Computing Prediction Trees for Data Collection in Sensor Networks. Jian Li, Amol Deshpande, and Samir Khuller. Submitted to ICALP 2009.
2. A Unified Approach to Ranking in Probabilistic Databases. Jian Li, Barna Saha, and Amol Deshpande. Submitted to VLDB 2009.
3. Approximation Algorithms for ℓ -Diversity in Metric Spaces. Jian Li, Ke Yi, and Qin Zhang.
4. Densest k -Subgraph Approximation on Intersection Graphs. Danny Z. Chen, Rudolf Fleischer, Jian Li.

Honors and Awards

1. Gannon Summer Graduate Research Assistant Award, University of Maryland, 2008.
2. The First prize scholarship, Fudan University, 2006.
3. The Second Prize, Campus Planning Contest, Sun Yat-sen University, 2003.
4. The First prize scholarship, Sun Yat-sen University, 2003.
5. Honorable Mention, ACM / ICPC (Association for Computing Machinery / International Collegiate Programming Contest), Asia Region(Xi'an), 2002.
6. The First Prize Scholarship for New Students, Sun Yat-sen University, 2001.

Professional Experience

1. Mar 13-18,2005: Spring School on Design and Analysis of Algorithms. Zhejiang University, Hangzhou, China (lecturer: János Csirik, Kazuo Iwama, Klaus Jansen, Denis Trystram)
2. Spring, 2005: Teaching Assistant, Department of Computer Science & Engineering Fudan University. In undergraduate course theory of computation.(Advisor: F.Rudolf).

3. Summer, 2005: Summer School in Computational Complexity, Tsinghua University, Beijing, China (Lecturer: Jinyi Cai).
4. Fall, 2005: Teaching Assistant, Department of Computer Science & Engineering Fudan University. In undergraduate course algorithm design and analysis.(Advisor: F.Rudolf).
5. Jun, 25th-30th,2006: Summer School on Game Theory in Computer Science, Århus University, Denmark (Lecturers: Yevgeniy Dodis, Andrew Goldberg, Sergiu Hart, Per Baltzer Overgaard, Tim Roughgarden, Bernhard von Stengel).
6. Jul,1st-21st,2006: Visiting Guest at Max-Planck Institute Informatik, Saarbrücken, Germany.
7. Sep,11st-Dec,10th,2006, Visiting Student at Hong Kong University of Science and Technology.(Supervisor: Mordecai Golin).

References

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