

Curriculum Vitae of Huaming Zhang

I. Professional Background

Name: Huaming Zhang

Affiliation: Computer Science Department
University of Alabama in Huntsville

Academic Specialties: Algorithm Design and Analysis, Computational Geometry, Combinatorics.

Degrees:

Ph.D.: Computer Science and Engineering, State University of New York at Buffalo, June 2005.

Academic experience:

Fall 2005-now Assistant Professor Computer Science Department
The University of Alabama in Huntsville, Huntsville

II. Research, Creative, and Scholarly Activity:

- Refereed International Journal Articles:
 1. X. He and H. Zhang, Nerally Optimal Visibility Representations of Plane Triangulations, accepted to SIAM Journal on Discrete Mathematics, subject to minor revision, notified on Jan. 2nd, 2008.
 2. H. Zhang and X. He, Optimal st-Orientations for Plane Triangulations, accepted to Journal of Combinatorial Optimization, notified on Nov. 5th, 2007.
 3. H. Zhang and X. He, An Application of Well-Orderly Trees in Graph Drawing, *International Journal of Foundations of Computer Science*, Vol. 17 2006, pp.1129-1141.
 4. H. Zhang and X. He, On Simultaneous Straight-line Grid Embedding of a Planar Graph and its Dual, *Information Processing Letters*, Vol. 99 2006 pp.1-6.
 5. H. Zhang and X. He, Visibility Representation of Plane Graphs via Canonical Ordering Tree, *Information Processing Letters*, Vol. 96 2005, pp. 41-48.
 6. H. Zhang and X. He, On Even Triangulations of 2-Connected Embedded Graphs, *SIAM Journal on Computing*, Vol. 34 2005, pp. 683-696.
 7. H. Zhang and X. He, Canonical Ordering Trees and Their Applications in Graph Drawing, *Discrete and Computational Geometry*, Vol. 33 2005, pp. 321-344.
 8. H. Zhang and X. He, Improved Visibility Representation of Plane Graphs, *Computational Geometry: Theory and Applications*, Vol. 30 2005, pp. 29-39.
- Referred Papers Published in International Conference Proceedings:
 1. L. Zou, L. Chen, H. Zhang, Y. Lu and Q. Luo, Summarization Graph Indexing: Beyond Frequent Structure-based Approach, accepted to: *Proceedings of the 13th International Conference on Database Systemsfor Advance Applications (DASFAA'08)*, to appear in: *Lecture Notes in Computer Science*, notified on Nov. 12th, 2007.
 2. H. Zhang and S. Sadasivam, On Planar Polyline Drawings, accepted to: *Proceedings of the 15th International Symposium on Graph Drawing (GD'2007)*, to appear in: *Lecture Notes in Computer Science*.
 3. H. Zhang and X. He, Optimal st-Orientations for Plane Triangulations, in: *Proceedings of the Third International Conference on Algorithm Aspects in Information and Management, (AAIM' 2007)*, Lecture Notes in Computer Science, Vol. 4508, pp.296-305.
 4. L. Zou, Y. Lu, H. Zhang, R. Hu and C. Zhou, Mining Frequent Induced Subtrees by Prefix-Tree-Projected Pattern Growth, in: *Proceedings of the International Workshop on XML, Web, and Internet Contents Technologies (XWICT' 2006)*, pp. 18-25

5. L. Zou, Y. Lu, H. Zhang and R. Hu, Mining Frequent Induced Subtree Patterns with Subtree-Constraint, in: *Proceedings of the 6th IEEE International conference on data mining – Workshops (ICDMW' 2006)*, pp. 3-7
 6. L. Zou, Y. Lu, H. Zhang and R. Hu, PrefixTreeESpan: A Pattern Growth Algorithm for Mining Embedded Subtrees, in: *Proceedings of the 7th International conference on Web Information systems Engineering (Web Information Systems - WISE'2006)*, Lecture Notes in Computer Science, Vol. 4255, pp. 499-505.
 7. X. He and H. Zhang, Nearly Optimal Visibility Representations of Plane Graphs, in: *Proceedings of the 33rd International Colloquium on Automata, Languages and Programming (ICALP'2006)*, Lecture Notes in Computer Science, Vol. 4051, pp. 407-418.
 8. W. Li, H. Zhang and R. Shatnawi, A Graph-Based Representation of Object-Oriented Designs, in: *Proceedings of the 2006 International Conference on Software Engineering Research and Practice & Conference on Programming Languages and Compilers (SERP'2006)*, pp.198-204.
 9. R. Shatnawi, W. Li and H. Zhang, Predicting Error Probability in the Eclipse Project, in *Proceedings of the 2006 International Conference on Software Engineering Research and Practice & Conference on Programming Languages and Compilers (SERP'2006)*, pp. 422-428.
 10. H. Zhang and X. He, An Application of Well-orderly Trees in Graph Drawing, in: *Proceedings of the 13th International Symposium on Graph Drawing (GD'2005)*, Lecture Notes in Computer Science, Vol. 3843, pp. 458-467.
 11. H. Zhang and X. He, New Theoretical Bounds of Visibility Representation of Plane Graphs, in: *Proceedings of the 12th International Symposium on Graph Drawing (GD'2004)*, Lecture Notes in Computer Science, Vol. 3383, pp. 425-430.
 12. H. Zhang and X. He, On Visibility Representation of Plane Graphs, in: *Proceedings of the 21st International Symposium on Theoretical Aspects of Computer Science (STACS'2004)*, Lecture Notes in Computer Science, Vol. 2996, pp. 477-488.
 13. H. Zhang and X. He, Compact Visibility Representation and Straight-Line Grid Embedding of Plane Graphs, in: *Proceedings of the 8th Workshop on Algorithms and Data Structures (WADS'2003)*, Lecture Notes in Computer Science, Vol. 2748, pp.493-504.
 14. H. Zhang and X. He, On Even Triangulations of 2-Connected Embedded Graphs, in: *Proceedings of the 9th International Computing and Combinatorics Conference (COCOON'2003)*, Lecture Notes in Computer Science, Vol. 2697, pp. 139-148.
 15. H. Zhang and X. He, A Simple Linear Time Algorithm for Finding Even Triangulations of 2-Connected Bipartite Plane Graphs, in: *Proceedings of the 10th European Symposium on Algorithms (ESA'2002)*, Lecture Notes in Computer Science, Vol. 2461, pp. 902-913.
- Ph.D. Dissertation: Graph Orientation, Labeling and Their Applications, State University of New York at Buffalo, June 2005

III. Professional Activities:

- Reviewer for the following international journals:
 1. Journal of Graph Algorithms and Applications
 2. Computational Geometry: Theory and Applications
 3. Parallel Processing Letters
 4. Journal of Combinatorial Optimization
 5. International Journal of Computers and Applications
 6. Discrete Mathematics
 7. Discrete Applied Mathematics
 8. Algorithmica

- Reviewer for the following international conferences:
 1. The 11th International Computing and Combinatorics Conference, COCOON'2005
 2. The 12th International Computing and Combinatorics Conference, COCOON'2006
- Program Committee Member for the following international conferences:
 1. The 13th International Computing and Combinatorics Conference, COCOON'2007
 2. The 4th International Conference on Algorithm Aspects in Information and Management, AAIM' 2008
- Membership:
 1. Sigma Xi
 2. ACM
 3. IEEE