



REFEREED CONFERENCE PUBLICATIONS

1. J. J. Fowler, C. Gutwenger, M. Jünger, P. Mutzel, and M. Schulz. “An SPQR-Tree Approach to Decide Special Cases of Simultaneous Embedding with Fixed Edges”. *16th Symposium on Graph Drawing (GD 2008)*. To appear 2009.
2. A. Estrella-Balderrama, J. J. Fowler, and S. G. Kobourov. “Graph Simultaneous Embedding Tool”. *16th Symposium on Graph Drawing (GD 2008)*. To appear 2009.
3. J. J. Fowler, M. Jünger, S. G. Kobourov, and M. Schulz. “Characterizations of Restricted Pairs of Planar Graphs Allowing Simultaneous Embedding with Fixed Edges”, *34th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2008)*. To appear 2008.
4. J. J. Fowler, M. Jünger, S. G. Kobourov, and M. Schulz. “Characterizing Simultaneous Embedding with Fixed Edges”, *Topological & Geometric Graph Theory*. Electronic Notes in Discrete Mathematics. vol. 31, pp. 41–44, 2008.
5. J. J. Fowler, and S. G. Kobourov. “Characterization of Unlabeled Level Planar Graphs”, *15th Symposium on Graph Drawing (GD 2007)*. LNCS 4875, pp. 37–49, 2008.
6. J. J. Fowler, and S. G. Kobourov. “Minimum Level Nonplanar Patterns for Trees”, *15th Symposium on Graph Drawing (GD 2007)*. LNCS 4875, pp. 69–75, 2008.
7. U. Brandes, C. Erten, J. J. Fowler, S. G. Kobourov, F. Frati, M. Geyer, M. Kaufmann, C. Gutwenger, P. Mutzel, S.-H. Hong, G. Liotta and A. Symvonis. “Colored Simultaneous Geometric Embeddings”, *The 13th Annual International Computing and Combinatorics Conference (COCOON 2007)*. LNCS 4598, pp. 254–263, 2007.
8. A. Estrella-Balderrama, J. J. Fowler, and S. G. Kobourov. “Characterization of Unlabeled Level Planar Trees”, *14th Symposium on Graph Drawing (GD 2006)*. LNCS 4372, pp. 367–379, 2007.
9. J. Cappos, A. Estrella-Balderrama, J. J. Fowler, and S. G. Kobourov. “Simultaneous Graph Embedding with Bends and Circular Arcs”, *14th Symposium on Graph Drawing (GD 2006)*. LNCS 4372, pp. 95–107, 2007.

JOURNAL PUBLICATIONS

1. A. Estrella-Balderrama, J. J. Fowler, and S. G. Kobourov. “Characterization of Unlabeled Level Planar Trees”, *Computational Geometry: Theory and Applications*. To appear 2009.
2. J. Cappos, A. Estrella-Balderrama, J. J. Fowler, and S. G. Kobourov. “Simultaneous Graph Embedding with Bends and Circular Arcs”. *Computational Geometry: Theory and Applications*. vol. 42, no. 2, pp 173–182, 2009.
3. E. Gethner, D. Schattschneider, S. Passiouras, and J. J. Fowler. “Combinatorial Enumeration of  $2 \times 2$  Ribbon Patterns”, *European Journal of Combinatorics*. vol. 28, no. 4, pp. 1276–1311, 2007.
4. J. J. Fowler and E. Gethner. “Counting  $m \times m$  Escher’s Ribbon Patterns”, *Journal for Geometry and Graphics*. vol. 10, no. 1, pp. 1–13, 2006.

WORKSHOPS

1. *Workshop on Algorithms, Combinatorics, and Geometry*, University of North Texas, Nov. 29 to Dec. 1, 2007.
2. *Graph Drawing with Applications to Bioinformatics and Social Sciences*, Dagstuhl Seminar 08191, May 5th to 9th, 2008.

#### PRESENTATIONS

1. “An SPQR-Tree Approach to Decide Special Cases of Simultaneous Embedding with Fixed Edges”, *16th Symposium on Graph Drawing (GD 2008)*.
2. “Characterizations of Restricted Pairs of Planar Graphs Allowing Simultaneous Embedding with Fixed Edges”, *34th International Workshop on Graph-Theoretic Concepts in Computer Science*.
3. “Characterizing Simultaneous Embedding with Fixed Edges”, *Topological & Geometric Graph Theory*.
4. “Characterization of Unlabeled Level Planar Graphs”, *15th Symposium on Graph Drawing*.
5. “Minimum Level Nonplanar Patterns for Trees”, *15th Symposium on Graph Drawing*.
6. “Colored Simultaneous Geometric Embeddings”, *The 13th Annual International Computing and Combinatorics Conference*.
7. “Characterization of Unlabeled Level Planar Trees”, *14th Symposium on Graph Drawing*.
8. “Counting Escher’s  $2 \times 2$  Ribbon Patterns”, *University of Adelaide Institute for Geometry and its Applications Workshop on Incidence Geometry*, 2003.
9. “Counting  $m \times m$  Escher’s Ribbon Patterns”, *28th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing*.

#### CONFERENCE REVIEWS

1. 14th Symposium on Graph Drawing (GD 2006).
2. 16th European Symposium on Algorithms (ESA 2008).
3. 16th Symposium on Graph Drawing (GD 2008).

#### TEACHING EXPERIENCE

##### **The University of Arizona**

###### *Instructor*

C SC 445 Algorithms Summer 2006

###### *Teaching Assistant*

C SC 473 Automata, Grammars and Languages Fall 2005  
C SC 445 Algorithms Spring 2006  
C SC 499 Independent Study Spring 2007  
C SC 573 Theory of Computation Spring 2007

##### **University of Colorado at Denver**

###### *Instructor*

C SC 4034 Theoretical Foundations of Comp. Sci. Spring, Summer 2003, Spring 2004  
C SC 4058 Introduction to Software Engineering Fall 2003, 2004  
C SC 5728 Software Engineering Spring, Fall 2004

###### *Teaching Assistant*

C SC 3412 Algorithms II Spring 2002  
C SC 3645 Discrete Linear Systems Spring 2004, 2005  
C SC 5217 Information Theory Fall 2003  
C SC 5451 Algorithms Fall 2002, 2003, 2004  
C SC 7002 Computer Security Spring 2005