

## Jan Foniok – List of publications

### Journal papers

- [1] J. FONIOK, J. NEŠETŘIL, and C. TARDIF. Generalised dualities and maximal finite antichains in the homomorphism order of relational structures. *European J. Combin.*, 29 (4), pp. 881–899, 2008.
- [2] J. FONIOK, K. FUKUDA, B. GÄRTNER, and H.-J. LÜTHI. Pivoting in linear complementarity: Two polynomial-time cases. *Discrete Comput. Geom.*, 42 (2), pp. 187–205, 2009.
- [3] J. FONIOK and C. TARDIF. Adjoint functors and tree duality. *Discrete Math. Theor. Comput. Sci.*, 11 (2), pp. 97–110, 2009.
- [4] J. FONIOK, J. NEŠETŘIL, A. PULTR, and C. TARDIF. Dualities and dual pairs in Heyting algebras. *Order*, 27 (3), pp. 327–342, 2010.
- [5] J. FONIOK, K. FUKUDA, and L. KLAUS. Combinatorial characterizations of K-matrices. *Linear Algebra Appl.*, to appear.
- [6] J. FONIOK, J. NEŠETŘIL, and C. TARDIF. Interleaved adjoints of directed graphs. *European J. Combin.*, to appear.

### Conference proceedings

- [7] J. FONIOK. Structural aspects of the class of relational structures. In: J. ŠAFRÁNKOVÁ (ed.), *WDS'03 Proceedings of Contributed Papers, Part I*, pp. 238–242. Charles University, Matfyzpress, Prague, 2003.
- [8] J. FONIOK, J. NEŠETŘIL, and C. TARDIF. Generalised dualities and finite maximal antichains. In: F. V. FOMIN (ed.), *Graph-Theoretic Concepts in Computer Science (Proceedings of WG 2006)*, vol. 4271 of *Lecture Notes in Comput. Sci.*, pp. 27–36. Springer-Verlag, 2006.
- [9] J. FONIOK, J. NEŠETŘIL, and C. TARDIF. On finite maximal antichains in the homomorphism order. *Electron. Notes Discrete Math.*, 29 (Proc. Eurocomb '07), pp. 389–396, 2007.
- [10] J. FONIOK and J. NEŠETŘIL. Splitting finite antichains in the homomorphism order. In: Y. BOUDABBOUS and N. ZAGUIA (eds.), *Proceedings of the first International Conference on Relations, Orders and Graphs: Interaction with Computer Science (ROGICS'08)*, pp. 327–332. 2008.

### Reports

- [11] J. FONIOK. *Graphs and partially ordered sets*. Master's thesis, Charles University, Prague, 2002.
- [12] J. FONIOK and D. JOHANNSEN. Amoebas and SDP. *Tech. rep.*, Optimization Methods in Discrete Geometry Predoc-Course, Berlin, 2006.
- [13] J. FONIOK. *Homomorphisms and Structural Properties of Relational Systems*. Ph.D. thesis, Charles University, Prague, 2007.

### Submitted manuscripts and work in preparation

- [14] J. FONIOK, B. GÄRTNER, and L. KLAUS. Counting unique-sink orientations. In preparation.
- [15] J. FONIOK and T. RACKHAM. On the complexity of changing H-colouring. In preparation.