

List of publications of

L. A. Székely

September 23, 2008

BOOKS

1. D. E. Knuth: A számítógép-programozás művészete (translation of part of *The Art of Computer Programming*, Vol. 1), Műszaki Könyvkiadó, Budapest, 1988 (first edition); Budapest, 1994 (second edition).

2. *Graph Theory and Combinatorial Biology* L. Lovász, A. Gyárfás, G. Katona, A. Recski and L. Székely, eds., Bolyai Society Mathematical Studies, 7 J. Bolyai Mathematical Society, Budapest, 1999.

PAPERS

2008

- 1./ M. A. Steel, L. A. Székely, E. Mossell, Phylogenetic information complexity: is testing a tree easier than finding it? submitted to *J. Theor. Biology*.
- 2./ L. A. Székely, Yiting Yang, On the expectation and variance of the reversal distance
- 3./ Linyuan Lu and L. A. Székely, A new asymptotic enumeration technique: the Lovász Local Lemma
- 4./ Hyunju Kim, Z. Toroczkai, I. Miklós, P. L. Erdős, L. A. Székely, On realizing all simple graphs with a given degree sequence submitted to *Discrete Math*.
- 5./ L. A. Székely, Yiting Yang, The expected number of hurdles is bounded

- 6./ É. Czabarka, L. A. Székely, S. Wagner, The inverse problem for certain tree parameters, submitted.
- 7./ D. Bokal, E. Czabarka, L. A. Székely, and I. Vrřo, General lower bounds for the minor crossing numbers of graphs, submitted to *Discrete and Computational Geometry*
- 8./ É. Czabarka, P. Dankelmann, L. A. Székely, Diameter of 4-colorable graphs, to appear in *Europ. J. Comb.*
- 9./ M. A. Steel and L. A. Székely, Inverting random functions III: discrete MLE revisited, to appear in *Annals Comb.*
- 10./ É. Czabarka, O. Sýkora, L. A. Székely and I. Vrřo, Biplanar crossing numbers II: comparing crossing numbers and biplanar crossing numbers using the probabilistic method, to appear in *Random Structures and Algorithms*.
- 11./ L. A. Székely, An optimality criterion for the crossing number, *Ars Mathematica Contemporena* **1**(2008), 32–37.
- 12./ A. Sali and L. A. Székely, On the existence of Armstrong instances with bounded domains, Foundations of Information and Knowledge Systems (FoIKS 2008), Lecture Notes in Computer Science Vol. 4932, pp. 151–157, 2008, Springer-Verlag.
- 13./ L. A. Székely, Hua Wang, and Yong Zhang, Erratum to “Some non-existence results on Leech trees, *Bull. Inst. Comb. Appl.* **52** (2008) pp.6.

2007

- 14./ M. A. Steel and L. A. Székely, Teasing apart two trees, *Combinatorics, Probability, and Computing* **16** (2007) (6) 903–922.
- 15./ Linyuan Lu and L. A. Székely, Using Lovász Local Lemma in the space of random injections, *Electronic J. Comb.* **14** (2007) R63, pp. 13.

- 16./ A. Sali and L. A. Székely, $SPT(q, k, n)$ -codes, *Electronic Notes in Discrete Mathematics* **29** 2007, 403–409.
- 17./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrřto, k -planar crossing numbers, *Discrete Appl. Math.* **155** (2007), 1106–1115.
- 18./ D. Bokal, É. Czabarka, L. A. Székely, and I. Vrřto, Graph minors and the crossing number of graphs, *Electronic Notes in Discrete Math.* **28** (2007) 169–175.

2006

- 19./ L. A. Székely and Hua Wang, Binary trees with the largest number of subtrees, *Discrete Appl. Math.* **155** (3) 2006, 374–385.
- 20./ M. A. Steel and L. A. Székely, On the variational distance of two trees, *Annals Appl. Prob.* **16** (3) (2006), 1563–1575.
- 21./ É. Czabarka, O. Sýkora, L. A. Székely and I. Vrřto, Crossing numbers and biplanar crossing numbers I: a survey of problems and results, *More Sets, Graphs and Numbers*, eds. E. Győri, G. O. H. Katona, and L. Lovász, Bolyai Society Mathematical Studies **15**, Springer Verlag, 2006, 57–77.

2005

- 22./ L. A. Székely and Hua Wang, Binary trees with the largest number of subtrees with at least one leaf, 36th Southeastern International Conference on Combinatorics, Graph Theory, and Computing. *Congr. Numer.* **177** (2005), 147–169.
- 23./ L. A. Székely and Hua Wang, On subtrees of trees, *Adv. Appl. Math.* **34** (2005), 138–155.
- 24./ L. A. Székely, Progress on crossing number problems, *SOFSEM 2005: Theory and Practice of Computer Science: 31st Conference on Current Trends in Theory and Practice of Computer Science Liptovský Ján, Slovakia, January 22-28, 2005*. Editors: P.

Vojtás, M. Bieliková, B. Charron-Bost, et al. Lecture Notes in Computer Science Vol. 3381, 2005, Springer-Verlag, 53–61.

- 25./ P. L. Erdős, Á. Seress and L. A. Székely, Non-trivial t -intersection in the function lattice, *Annals of Combinatorics* **9** (2005), 177–187.
- 26./ L. A. Székely, Hua Wang, and Yong Zhang, Some non-existence results on Leech trees, *Bull. Inst. Comb. Appl.* **44** (2005), 37–45. **52** (2008).

2004

- 27./ L. A. Székely, Short proof for a theorem of Pach, Spencer, and Tóth, in: *Towards a Theory of Geometric Graphs*, ed. J. Pach, *Contemporary Mathematics* **342**, Amer. Math. Soc. 2004, 281–283.
- 28./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrřo, The gap between the crossing number and the convex crossing number, in: *Towards a Theory of Geometric Graphs*, ed. J. Pach, *Contemporary Mathematics* **342**, Amer. Math. Soc. 2004, 249–258.
- 29./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrřo, Bounds and methods for k -planar crossing numbers, *Graph Drawing 2004*, Lecture Notes in Computer Science Vol. 2912, Springer Verlag, Berlin, 2004, 37–46.
- 30./ O. Sýkora, L. A. Székely and I. Vrřo, A note on Halton’s conjecture, *Information Sciences* **164** (2004) (1-4) 61–64.
- 31./ L. A. Székely, Counting rooted spanning forests in complete multipartite graphs, *Ars Combinatoria* **73** (2004), 97–100.
- 32./ É. Czabarka, O. Sýkora, L. A. Székely and I. Vrřo, Outerplanar Crossing Numbers, Circular Arrangement Problem, and Isoperimetric Functions, *Electronic J. Combinatorics* **11** (1) (2004) R81 (20 pages).

2003

- 33./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrřo, Bounds on convex crossing numbers, *COCOON 2003*, The Ninth International Computing and Combinatorics Conference, Lecture Notes in Computer Science vol. 2697, Springer Verlag, 2003 487–495.
- 34./ L. A. Székely, A successful concept for measuring non-planarity of graphs: the crossing number, *Discrete Math.* **276** (2003), 1–3, 331–352.

2002

- 35./ M. Fischermann, A. Hoffmann, D. Rautenbach, L. Székely and L. Volkmann, Wiener index versus maximum degree in trees, *Discrete Appl. Math.* **122** (1-3) (2002) 127–137.
- 36./ O. Sýkora, L. A. Székely and I. Vrřo, Two counterexamples in graph drawing, Proc. *28th Intl. Workshop on Graph-Theoretic Concepts in Computer Science*, ed. L. Kucera, Lecture Notes in Computer Science Vol. 2573, Springer Verlag, Berlin, 2002, 389–396.
- 37./ I. B. Rogozin, K. S. Makarova, Y. I. Wolf, J. Murvai, E. Czabarka, L. A. Székely, R. L. Tatusov, and E. V. Koonin, Connected gene neighborhoods in prokaryotic genomes, *Nucleic Acids Res.* **30** (10) (2002), 2212–2223.
- 38./ L. A. Székely, Erdős on unit distances and the Szemerédi-Trotter theorems, *Paul Erdős and his Mathematics II.*, eds. G. Halász, L. Lovász, M. Simonovits, and V. T. Sós, Bolyai Society Mathematical Studies **11**, János Bolyai Mathematical Society, Budapest, and Springer-Verlag, Berlin, 2002, 649–666.
- 39./ O. Sýkora, L. A. Székely and I. Vrřo, Fractional length and crossing numbers, in: *Graph Drawing 2002*, Lecture Notes in Computer Science Vol. 2528, Springer Verlag, Berlin, 2002, 186–192.

- 40./ L. A. Székely, Zarankiewicz crossing number conjecture, article in: Kluwer Encyclopaedia of Mathematics, Supplement III Managing Editor: M. Hazewinkel Kluwer Academic Publishers, 2002, 451–452.
- 41./ M. A. Steel and L. A. Székely, Inverting random functions II: explicit bounds for discrete maximum likelihood estimation, with applications, *SIAM J. Discrete Math.* **15** (4) (2002), 562–575.

2001

- 42./ F. Shahrokhi and L. A. Székely, Constructing integral uniform flows in symmetric networks and application to the forwarding index problem, *Discrete Applied Math.* **108** (2001), 175–191.
- 43./ R. Howard, G. Károlyi, and L. A. Székely, Towards a Katona type proof for the 2-intersecting Erdős-Ko-Rado theorem, *Electronic J. Combinatorics*, **8** (1) (2001), R31 (8 pages).

2000

- 44./ L. A. Székely, A successful concept for measuring non-planarity of graphs: the crossing number, in: *Electronic Notes in Discrete Mathematics* Vol. 5 <http://www.elsevier.nl/locate/endm> Elsevier, Amsterdam, 2000, 284–287.
- 45./ P. L. Erdős, and L. A. Székely, Erdős-Ko-Rado theorems of higher order, in: *Numbers, Information and Complexity*, Ingo Althöfer, Ning Cai, Günther Dueck, Levon Khachatryan, Mark S. Pinski, András Sárközy, Ingo Wegener and Zhen Zhang (eds.), Kluwer Academic Publishers, 2000, 117–124.
- 46./ P. L. Erdős, Á. Seress and L. A. Székely, Erdős-Ko-Rado and Hilton-Milner type theorems for intersecting chains in posets, *Combinatorica* **20**(1) (2000) 27–45.
- 47./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrřto, A new lower bound for bipartite crossing numbers with applications, *Theor. Comp. Sci.* **245** (2) (2000), 281–294.

- 48./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, On bipartite drawings and the linear arrangement problem, *SIAM J. Computing* **30** (6) (2000), 1773–1789.

1999

- 49./ M. A. Steel and L. A. Székely, Inverting random functions, *Annals of Combinatorics* **3** (1999), 103–113.
- 50./ P. L. Erdős, M. A. Steel, L. A. Székely, and T. J. Warnow, A few logs suffice to build (almost) all trees I, *Random Structures and Algorithms* **14**(1999)(2) 153–184.
- 51./ P. L. Erdős, M. A. Steel, L. A. Székely, and T. J. Warnow, A few logs suffice to build (almost) all trees II, *Theor. Comp. Sci.* **221** (1-2)(1999), 77–118.

1998

- 52./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, Crossing numbers of $C_m \times C_n$ and other families of curves, *Discrete and Comp. Geometry* **19**(2)(1998), 237–248.
- 53./ P. L. Erdős, A. Frank, and L. A. Székely, Minimum multiway cuts in trees, *Discrete Appl. Math.* **87** (1998), 67–75.
- 54./ F. Shahrokhi and L. A. Székely Integral uniform flows in symmetric networks, *Graph-Theoretic Concepts in Computer Science (WG'98, Smolenice)*, J. Hromkovič and O. Sýkora eds., Lecture Notes in Computer Science 1517, Springer-Verlag, 1998, 272–284.

1997

- 55./ P. L. Erdős, Á. Seress and L. A. Székely, On intersecting chains in Boolean algebras, *Combinatorics, Geometry, and Probability. A tribute to Paul Erdős. Papers from the Conference in Honor of Erdős' 80th Birthday held at Trinity College, Cambridge, March 1993.* Eds. B. Bollobás and A. Thomason, *Partial reprinting of Combinatorics, Probability and Computing*, Cambridge University Press, Cambridge, 1997, 299–304. (reprint)

- 56./ R. Ahlswede, N. Alon, P. L. Erdős, M. Ruszinkó and L. A. Székely, Intersecting systems, *Combinatorics, Probability, and Computing* **6**(2)(1997), 127–137.
- 57./ L. A. Székely, Crossing numbers and hard Erdős problems in discrete geometry, *Combinatorics, Probability, and Computing* **6**(3)(1997), 353–358.
- 58./ D. de Caen and L. A. Székely, On dense bipartite graphs of girth eight and upper bounds for certain configurations in planar point-line systems, *J. Combin. Theory Ser. A.* **77**(1997), 268–278.
- 59./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, Crossing numbers: bounds and applications, in: *Intuitive Geometry*, eds. I. Bárány and K. Böröczky, Bolyai Society Mathematical Studies **6**, János Bolyai Mathematical Society, Budapest, 1997, 179–206.
- 60./ P. L. Erdős, M. A. Steel, L. A. Székely, and T. J. Warnow, Local quartet splits of a binary tree infer all quartet splits via one dyadic inference rule, *Computers and Artificial Intelligence* **16**(2)(1997), 217–227.
- 61./ L. H. Clark, J. E. McCanna, L. A. Székely, A survey of counting bicoloured trees, *Bull. Inst. Comb. Appl.* **21**(1997), 33–45.
- 62./ P. L. Erdős, M. A. Steel, L. A. Székely, and T. J. Warnow, Constructing big trees from short sequences, *ICALP'97, 24th International Colloquium on Automata, Languages, and Programming (Silver Jubilee of EATCS), Bologna, Italy, July 7th–11th, 1997*, eds. P. Degano, R. Gorrieri, and A. Marchetti-Spaccamela, Lecture Notes in Computer Science Vol 1256, Springer-Verlag, 1997, 1–11.
- 63./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, On bipartite crossings, largest biplanar subgraphs, and the linear arrangement problem, *Workshop on Algorithms and Data Structures (WADS'97), August 6-8, 1997 Halifax, Nova Scotia, Canada*, Lecture Notes in Computer Science Vol. 1272, Springer-Verlag, 1997, 55–68.

- 64./ P. L. Erdős and L. A. Székely, Pseudo-LYM inequalities and AZ identities, *Adv. Appl. Math.* **19** (1997), 431–443.
- 65./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, Bipartite crossing numbers of meshes and hypercubes, *Graph Drawing (Rome 1997)*, Lecture Notes in Computer Science Vol. 1353, Springer-Verlag, 1997, 37–46.
- 66./ C. A. Barefoot, R. C. Entringer, and L. A. Székely, Extremal values for ratios of distances in trees, *Discrete Appl. Math.* **80**(1997), 37–56.
- 1996**
- 67./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, Book embeddings and crossing numbers, *J. Graph Theory* **21**(1996)(4), 413–424.
- 68./ D. J. Kleitman, R. C. Entringer and L. A. Székely, A note on spanning trees with minimum average distance, *Bull. Inst. Comb. Appl.* **17**(1996), 71–78.
- 69./ C. Barefoot, L. H. Clark, R. C. Entringer, T. D. Porter, L. A. Székely and Zs. Tuza, Cycle saturated graphs of minimum size, Selected papers in honour of Paul Erdős on the occasion of his 80th birthday (Keszthely, 1993). *Discrete Math.* **150**(1996), 31–48.
- 70./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, The crossing number of a graph on a compact 2-manifold, *Adv. Math.* **123**(1996), 105–119.
- 71./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, Drawings of graphs on surfaces with few crossings, *Algorithmica* **16**(1996), 118–131.
- 72./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, The crossing numbers of meshes, *Graph Drawing (Passau 1995)*, ed. F. J. Brandenburg, Lecture Notes in Computer Science 1027, Springer Verlag, Berlin, 1996, 463–471.

- 73./ F. Shahrokhi and L. A. Székely, Uniform concurrent multicommodity flow in product graphs, Proceedings of the Twenty-seventh Southeastern International Conference on Combinatorics, Graph Theory and Computing (Baton Rouge, LA, 1996), *Congr. Numerantium* **122** (1996), 67–89.

1995

- 74./ F. Shahrokhi and L. A. Székely, On group invariant flows and applications, in: *Graph Theory, Combinatorics, and Applications: Proceedings of the Seventh Quadrennial International Conference on the Theory and Applications of Graphs, Volume 2* eds. Y. Alavi and A. Schwenk, John Wiley and Sons, Inc., 1995, 1033–1042.
- 75./ L. A. Székely, Brouwer’s fixed point theorem implies Gallai’s theorem, *Acta Sci. Math. (Szeged)* **60**(1995), 681–684.
- 76./ F. Shahrokhi, L. A. Székely and I. Vr̃to, Crossing numbers of graphs, lower bound techniques and algorithms: a survey, *Graph Drawing (Princeton, NJ, 1994)* Lecture Notes in Computer Science Vol. 894, Springer Verlag, Berlin, 1995, 131–142.
- 77./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vr̃to, Book embeddings and crossing numbers, in: *Graph-Theoretic Concepts in Computer Science (Herrsching, 1994)*, ed. J. van Leeuwen, Lecture Notes in Computer Science Vol. 903, Springer Verlag, Berlin, 1995, 256–268

1994

- 78./ F. Shahrokhi and L. A. Székely, Concurrent flows and packet routing in Cayley graphs, in: *Graph-Theoretic Concepts in Computer Science (Utrecht, 1993)*, ed. J. van Leeuwen, Lecture Notes in Computer Science Vol. 790, Springer Verlag, Berlin, 1994, 327–338.
- 79./ F. Shahrokhi and L. A. Székely, Integral uniform concurrent flows and all pairs packet routing, *Congr. Num.* **97**(1993), 3–16.

- 80./ C. A. Barefoot, L. H. Clark, A. J. Depew, R. C. Entringer and L. A. Székely, Subdivision thresholds for two classes of graphs, *Discrete Math.* **125**(1994), 15–30.
- 81./ L. A. Székely, P. L. Erdős and M. A. Steel, The combinatorics of reconstructing evolutionary trees, *J. Comb. Math. Comb. Comput.*, **3**(1994), 241–254.)
- 82./ P. L. Erdős and L. A. Székely, On weighted multiway cuts in trees, *Math. Programming*, **65**(1994), 93–105.
- 83./ F. Shahrokhi and L. A. Székely, The complexity of the bottleneck graph bipartition problem, *J. Comb. Math. Comb. Comput.* **15**(1994), 221–226.
- 84./ P. L. Erdős, Á. Seress and L. A. Székely, On intersecting chains in Boolean algebras, *Combinatorics, Probability, and Computing*, **3**(1994), 57–62.
- 85./ M. A. Steel, L. A. Székely and M. D. Hendy, Reconstructing trees when sequence sites evolve at variable rates, *J. Computational Biology* **1**(1994)(2), 153–163.
- 86./ N. Graham, R. C. Entringer and L. A. Székely, New tricks for old trees: maps and the pigeonhole principle, *Amer. Math. Monthly* **101**(1994), 664–667.
- 87./ R. C. Entringer, A. Meir, J. W. Moon and L. A. Székely, On the Wiener index of trees from certain families, *Australasian J. Comb.*, **10**(1994), 211–224.
- 88./ F. Shahrokhi and L. A. Székely, On canonical concurrent flows, crossing number and graph expansion, *Combinatorics, Probability, and Computing* **3** (1994), 523–543.
- 89./ F. Shahrokhi, O. Sýkora, L. A. Székely and I. Vrto, Improved bounds for the crossing numbers on surfaces of genus g , in: *Graph-Theoretic Concepts in Computer Science (Utrecht 1993)*, ed. J. van Leeuwen, Lecture Notes in Computer Science Vol. 790, Springer Verlag, Berlin, 1994, 388–395.

1993

- 90./ L. H. Clark, R. C. Entringer, P. Erdős, Hui Cheng Sun and L. A. Székely, Extremal problems for the Bondy-Chvatal closure of a graph, in: "*Graphs, Matrices, and Designs: Festschrift in Honor of Norman J. Pullman*", ed. R. S. Rees, Marcel Dekker, Inc., N. Y., 1993, 73–83.
- 91./ M. A. Steel, L. A. Székely, P. L. Erdős and P. Waddell, A complete family of phylogenetic invariants for any number of taxa under the Kimura 3ST model, *New Zealand J. of Botany* **31**(1993), 289–296.
- 92./ P. L. Erdős and L. A. Székely, Counting bichromatic evolutionary trees, *Discrete Appl. Math.* **47**(1993), 1–8.
- 93./ D. de Caen and L. A. Székely, On a problem of Erdős and Lovász, *Ars Comb.* **35A**(1993), 187–192.
- 94./ L. A. Székely, M. A. Steel, and P. L. Erdős, Fourier calculus on evolutionary trees, *Adv. Appl. Math.* **14**(1993), 200–216.
- 95./ L. A. Székely, P. L. Erdős, M. A. Steel and D. Penny, A Fourier inversion formula for evolutionary trees, *Appl. Math. Letters* **6**(1993) (2), 13–17.

1992

- 96./ L. H. Clark, R. C. Entringer and L. A. Székely, Threshold functions for local properties of graphs: Triangles, in: *Combinatorics and Theoretical Computer Science* Proceedings of the Capital City Conference, Washington, D.C., USA, 22–26 May 1989, ed. by R. Simion, Topics in Discrete Mathematics **1**, North-Holland, 1992, 83–105. (reprint)
- 97./ L. A. Székely, L. H. Clark and R. C. Entringer, An inequality for degree sequences, *Discrete Math.* **103**(1992), 293–300.

- 98./ P. L. Erdős, P. Frankl, D. J. Kleitman, M. E. Saks and L. A. Székely, Sharpening the LYM inequality, *Combinatorica* **12**(1992), 287–293.
- 99./ F. Shahrokhi and L. A. Székely, Effective lower bounds for crossing number, bisection width and balanced vertex separator in terms of symmetry, in: *Integer Programming and Combinatorial Optimization, Proceedings of a Conference held at Carnegie Mellon University, May 25-27, 1992, by the Mathematical Programming Society*, eds. E. Balas, G. Cornuéjols, R. Kannan, 102–113, CMU Press, 1992.
- 100./ P. L. Erdős and L. A. Székely, Algorithms and min-max theorems on certain multiway cuts, in: *Integer Programming and Combinatorial Optimization, Proceedings of a Conference held at Carnegie Mellon University, May 25-27, 1992, by the Mathematical Programming Society*, eds. E. Balas, G. Cornuéjols, R. Kannan, 334–345, CMU Press, 1992.
- 101./ L. H. Clark, F. Shahrokhi and L. A. Székely, A linear-time algorithm for graph partition problems, *Inform. Process. Letters* **42**(1992), 19–24.
- 102./ D. de Caen and L. A. Székely, The maximum size of 4- and 6-cycle free bipartite graphs on m, n vertices, in: *Graphs, Sets and Numbers, Proceedings of the Conference Dedicated to the 60th Birthdays of A. Hajnal and Vera T. Sós, Budapest, 1991*, eds. G. Halász, L. Lovász, D. Miklós, T. Szőnyi, Coll. Math. Soc. János Bolyai **60**(1992), 135–142.
- 103./ M. A. Steel, M. D. Hendy, L. A. Székely and P. L. Erdős, Spectral analysis and a closest tree method for genetic sequences, *Appl. Math. Letters* **5**(1992)(6), 63–67.
- 104./ L. A. Székely, P. L. Erdős and M. A. Steel, The combinatorics of evolutionary trees—a survey, in: *Actes du Séminaire, Séminaire Lotharingien de Combinatoire, 28^e Session, 15–18 mars: 1992, Saint-Nabor, Ottrott*, J. Zeng, éd., Publication de l’Institute de

Recherche Mathématique Avancée, Université Louis Pasteur, Strasbourg, 1992, 129–143.

- 105./ P. L. Erdős and L. A. Székely, Evolutionary trees: An integer multicommodity max-flow–min-cut theorem, *Adv. Appl. Math.* **13**(1992), 375–389.

1991

- 106./ L. H. Clark, J. I. McCanna, R. C. Entringer and L. A. Székely, Extremal problems for local properties of graphs, *Australasian J. Comb.* **4**(1991), 25–31.
- 107./ K. A. Johnson, R. Grassl, J. I. McCanna and L. A. Székely, Pascalian rectangles modulo m , *Quaest. Math.* **14**(1991), 383–400.
- 108./ L. H. Clark, R. C. Entringer and L. A. Székely, Threshold functions for local properties of graphs: Triangles, *Discrete Appl. Math.* **34**(1991), 83–105.

1990

- 109./ M. Carter, M. Hendy, D. Penny, L. A. Székely and N. C. Wormald, On the distribution of length of evolutionary trees, *SIAM J. Discrete Math.* **3**(1990), 38–47.
- 110./ T. D. Porter and L. A. Székely, On a matrix discrepancy problem, *Congr. Num.* **73**(1990), 239–248.
- 111./ A. A. Kooshes, B. M. E. Moret and L. A. Székely, Improved bounds on the prison yard problem, *Congr. Num.* **76**(1990), 145–149.

1989

- 112./ L. A. Székely, A note on identities and cube partitions, in: *Combinatorics*, Coll. Math. Soc. János Bolyai **52**(1988), 481–488.

- 113./ L. A. Székely and N. C. Wormald, Bounds on the measurable chromatic number of R^n , *Discrete Math.* **75**(1989), 343–372.
- 114./ L. A. Székely and N. C. Wormald, Bounds on the measurable chromatic number of R^n , in: *Graph Theory and Combinatorics 1988, Proceedings of the Cambridge Combinatorial Conference in Honour of Paul Erdős*, ed. B. Bollobás, Annals of Discrete Mathematics **43**, North-Holland, 1989, 343–372. (reprint)
- 115./ P. L. Erdős and L. A. Székely, Applications of antilexicographic order I: An enumerative theory of trees, *Adv. Appl. Math.* **10**(1989), 488–496.
- 116./ T. D. Porter and L. A. Székely, Generating functions for a problem of Riordan, *J. Comb. Math. Comb. Comput.* **6**(1989), 195–198.

1988

- 117./ L. A. Székely, A note on identities and cube partitions, in: *Combinatorics*, Coll. Math. Soc. János Bolyai **52**(1988), 481–488.

1987

- 118./ L. A. Székely, The analytic behaviour of the holiday numbers, *Acta Sci. Math. (Szeged)* **51**(1987), 365–369.
- 119./ P. Erdős, I. Joó and L. A. Székely, Remarks on infinite series, *Studia Sci. Math. Hung.* **22**(1987), 395–400.
- 120./ L. A. Székely, Inclusion-exclusion formulae without higher terms, *Ars Comb.* **23B**(1987), 7–20.

1986

- 121./ L. A. Székely, Reliable and unreliable intuition, *The New Zealand Math. Magazine* **23** (1986) No.3, 11–14.

- 122./ L. A. Székely and N. C. Wormald, Generating functions for the Frobenius problem with 2 or 3 generators, *Math. Chronicle* **15** (1986), 49–57.

1985

- 123./ L. A. Székely, On two concepts of discrepancy in a class of combinatorial games, in: *Finite and Infinite Sets*, Coll. Math. Soc. János Bolyai **37**(1985), 679–683.
- 124./ L. A. Székely, A note on common origin of cubic binomial identities, a generalisation of Surányi’s proof on Le Jen Shoo’s formula, *J. Comb. Theory Ser. A* **40**(1985), 171–174.
- 125./ L. A. Székely, Holiday numbers: sequences resembling the Stirling numbers of second kind, *Acta Sci. Math. (Szeged)* **48**(1985), 459–467.
- 126./ L. A. Székely, On the use of espionage in a class of combinatorial games, *Annales Univ. Sci. Bud. Eötvös* **28**(1985), 199–201.
- 127./ A. Bogmér and L. A. Székely, Asymptotic formula for the number of solutions of a diophantic system, *Annales Univ. Sci. Bud. Eötvös* **28**(1985), 203–215.

1984

- 128./ L. A. Székely, Measurable chromatic number of geometric graphs and sets without some distances in Euclidean space, *Combinatorica* **4**(1984), 213–218.
- 129./ L. A. Székely, On the number of homogeneous subgraphs of a graph, *Combinatorica* **4**(1984), 363–372.
- 130./ L. A. Székely, A new combinatorial interpretation of binomial coefficients and its applications, *Mat. Lapok* **32**(1984), 93–96 (in Hungarian).

1983

131./ L. A. Székely, Remarks on the chromatic number of geometric graphs, in: *Graphs and Other Topics* (ed. M. Fiedler), Teubner-
Texte zur Mathematik, Band **59**, Leipzig, 1983, 312–315.

OTHER PUBLICATIONS

1. *Combinatorial exercises*, JATE University, Szeged, 1983 (mimeographed, in Hungarian).
2. *Geometric Graphs*, Ph.D. Thesis, Eötvös University, Budapest, 1982 (in Hungarian).
3. *Analytic methods in combinatorics*, Thesis for the title Candidate for Math. Sci., Budapest, 1985 (in Hungarian).
4. *Eight lectures on graph theory*, Università degli Studi di Napoli Federico II, Naples, 1991 (mimeographed lecture notes).
5. *An algebraic approach to the uniform concurrent multicommodity flow problem: theory and applications*, Technical Report CRPDC-91-4, Department of Computer Science, University of North Texas, 1991 (with F. Shahrokhi).
6. *Trees and evolutionary trees*, Dissertation for the title "Doctor of the Hungarian Academy of Sciences", Budapest, 1994.
7. *The number of nucleotide sites needed to accurately reconstruct large evolutionary trees*, (with M. A. Steel, and P. L. Erdős), DIMACS Tech. Rep. No. 96-19.
8. Erdős on unit distances and the Szemerédi-Trotter theorems, Paul Erdős and His Mathematics, Abstract of Invited Talks, Eds. E. Győry and V. T. Sós, J. Bolyai Math. Soc., Bp. 1999, 60–65.
9. Variants of the crossing number problem *Oberwolfach Reports* 2 (2) Report 17, in: Discrete Geometry 925–994, 2005.