

List of publications of

L. A. Székely

May 2, 2016

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

2016

- 1./ H. Smith, L.A. Székely, Hua Wang, Shuai Yuan, On different “middle parts” of a tree, in preparation.
- 2./ É. Czabarka, K. Sadeghi, J. Rauh, T. Short, L. A. Székely, On the number of non-zero elements in a Joint Degree Vector, submitted, arXiv:1511.01035.
- 3./ Linyuan Lu and L. A. Székely, A new asymptotic enumeration technique: the Lovász Local Lemma, submitted to *J. Comb. Theory Ser. A* arXiv:0905.3983
- 4./ É. Czabarka, L. A. Székely, T.J. Vision, Minimizing the number of gene duplication episodes and Gallai’s theorem on intervals, arXiv:1209.5699.
- 5./ É. Czabarka, L. A. Székely, S. Wagner, Inducibility in binary trees and crossings in tanglegrams, submitted, arXiv:1601.07149.
- 6./ É. Czabarka, L. A. Székely, S. Wagner, Path vs. stars in the local profile of trees, arxiv:1512.06526
- 7./ É. Czabarka, L. A. Székely, S. Wagner, On the number of non-isomorphic subtrees of a tree, submitted, arXiv:1601.00944
- 8./ H. Smith, L.A. Székely, Hua Wang, Eccentricity sums in trees, *Discrete Applied Math.* (2016) arXiv:1408.5865
- 9./ L. A. Székely, Turán’s Brick Factory Problem: the Status of the Conjectures of Zarankiewicz and Hill, in: *Graph Theory—Favorite Conjectures and Open Problems*, eds. R. Gera, S. Hedetniemi, C. Larson, Problem Books in Mathematics series, Springer-Verlag, to appear in 2016.
- 10./ J. Pach, L.A. Székely, Cs.D. Tóth, G. Tóth, Note on k -planar crossing numbers, to appear in *Computational Geometry: Theory and Applications* Special Issue in Memoriam Ferran Hurtado.

- 11./ L.A. Székely, S. Wagner, Hua Wang, Problems related to graph indices in trees, in: *Recent Trends in Combinatorics*, eds. A. Beveridge, J.R. Griggs, L. Hogben, G. Musiker, P. Tetali, The IMA Volumes in Mathematics and Applications **159**, Springer-Verlag, 2016, 3–31.

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- 12./ É. Czabarka, A. Dutle, T. Johnston, L. A. Székely, Abelian groups yield many large families for the diamond problem, *Europ. J. Math.* **1**(2) (2015) 320–328.

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- 13./ L. A. Székely, Hua Wang, Extremal values of ratios: distance problems vs. subtree problems in trees II, *Discrete Math.* **322** (2014), 36–47.
- 14./ H.C. Smith, L.A. Székely, Some remarks on Baranyai’s theorem, *Congr. Num.* **222** (2014), 43–55.
- 15./ F. Molnár Jr., N. Derzsy, É. Czabarka, L. A. Székely, B. K. Szymanski, G. Korniss, Dominating scale-free networks using generalized probabilistic methods, *Scientific Reports* (2014) 4:6308 DOI: 10.1038/srep06308

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- 16./ Linyuan Lu, A. Mohr, L. A. Székely, Connected balanced subgraphs in random regular multi-graphs under the configuration model, *J. Comb. Math. Comb. Comput.* **86** (2013), 111–123.
- 17./ L. A. Székely, Hua Wang, Extremal values of ratios: distance problems vs. subtree problems in trees, *Electronic J. Combinatorics* **20**(1)(2013) #P67, pp. 1–20.
- 18./ H. Aydinian, É. Czabarka, L. A. Székely, Mixed orthogonal arrays, k -dimensional M -part Sperner multi-families and full multi-transversals, in: *Information Theory, Combinatorics, and Search Theory (in Memory of Rudolph Ahlswede)*, eds. H. Aydinian, F. Cicalese, C. Deppe, Lecture Notes in Computer Science **7777**, 2013, Springer-Verlag, 371–401.
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- 20./ Linyuan Lu, A. Mohr, L. A. Székely, Quest for negative dependency graphs, *Recent advances in harmonic analysis and applications (in honor of Konstantin Oskolkov)* eds. D. Bilyk, L. de Carli, A.M. Stokolos, A. Pethukov, B.D. Wick, Springer Proceedings in Mathematics & Statistics, Vol. 25, 2013, 243–258.

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- 22./ É. Czabarka, P. L. Erdős, V. Johnson, A. Kupczok, L. A. Székely, Asymptotically normal distribution of some tree families relevant for phylogenetics and of partitions without singletons, *Moscow J. Number Theory and Combinatorics* **1**(3)(2011) 12–24 [220–232].
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- 27./ M. A. Steel and L. A. Székely, Inverting random functions III: discrete MLE revisited, *Annals Comb.* **13** (2009) 373–390.
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- 30./ É. Czabarka, L. A. Székely, S. Wagner, The inverse problem for certain tree parameters, *Discrete Applied Math.* **157**(15)(2009), 3314–3319.
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