

Gregory J. Clark

Publication List

Research Publications

12. Gregory J. Clark, Felipe Thomaz, and Andrew Stephen. On the Effect of Data Dimensionality on Eigenvector Centrality. <https://arxiv.org/abs/2201.12034>. *Submitted*
11. Gregory J. Clark. Comparing Eigenvector and Degree Dispersion with the Principal Ratio of a Graph. <https://arxiv.org/abs/2202.00325>. *Submitted*
10. Felipe Thomaz, Natalia Efremova, Francesca Mazzi, Gregory J. Clark, Ewan Macdonald, Rhonda Hadi, Jason Bell, and Andrew T. Stephen. A Machine learning approach to analyse the AI ethics discourse and build a managerial framework for AI ethics in business. *Submitted*
9. Gregory J. Clark and Joshua N. Cooper. Applications of the Harary-Sachs Theorem for Hypergraphs. *Linear Algebra and its Applications*, 649:354-374, 2022.
8. Gregory J. Clark and Joshua N. Cooper. A Harary-Sachs Theorem for Hypergraphs. *Journal of Combinatorial Theory, Series B*, 149:1–15, 2021.
7. Gregory J. Clark and Joshua N. Cooper. Adjacency Spectral Theory for Uniform Hypergraphs, *IMAGE (Bull Lin. Alg. Soc.)*, **62** (2019), pp. 7-19.
6. Gregory J. Clark and Joshua N. Cooper. Stably computing the multiplicity of known roots given leading coefficients. *Numer Linear Algebra Appl.* 2020; 27:e2275.
5. John Asplund, Éva Czabarka, Gregory J. Clark, et al. Using block designs in crossing number bounds. *J Combin Des.* 2019; 27: 586-597.
4. Gregory J. Clark and Joshua N. Cooper. On the Adjacency Spectra of Hypertrees, *Elec. J. Comb.*, **25** (2018), no. 2, pp. 2-48.
3. Gregory J. Clark and Gwen Spencer. New Bounds on the Biplanar Crossing Number of Low-dimensional Hypercubes. *Bulletin of the Institute of Combinatorics and its Applications (BICA)*, 83(2018), 52-60.
2. Amanda Bright, Gregory J. Clark, Charles Dunn, et al. Tiling Annular Regions with Skew and T-tetrominoes, *Involve, a Journal of Mathematics* 10-3 (2017), 505–521.
1. Gregory J. Clark. Optimal Numbers and Solutions in the Euclidean Algorithm, *The Pentagon, A Mathematics Magazine for Students*, 73-01 (2013), 23-35.

Externally Commissioned Reports

2. Mars Campaign to Advance Action on Gender Equality

Title: Here to be Heard

2021

Summary: Global study to shape a more inclusive society for all women.

Contributed to modeling of data and data analysis

Available at: <https://www.mars.com/heretobeheard>

1. **International Chamber of Commerce Research Foundation**

Title: Ethics for AI in Business

2021

Summary: Managerial framework for ethical adoption of AI in business.

Gathered and processed data, contributed to analysis and interpretation

Available on SSRN: <https://ssrn.com/abstract=3871867>

Selected Work-in-Progress

3. Gregory J. Clark, Natalia Efromova, and Felipe Thomaz. Classifying Expert Opinion from Lived Experience. *In collaboration with Mars, Incorporated.*
2. Gregory J. Clark, Alexander Wiedemann, Felipe Thomaz, and John Hulland. Designed to Go Dark: An Examination of Incentives for Digital Black Markets to Self-Terminate.
1. Gregory J. Clark, Benjamin P. Evans, Diyi Liu. All for One and One for All: Co-opting social Movements as a Paradigm for Hashtag Framing on Twitter.