

Math Department
2013 Peer-Reviewed Publication List

K.C. Ciesielski and T. Glatzer, Sets of Discontinuities of Linearly Continuous Functions, *Real Anal. Exchange* 38(2) (2013), 337-389.

Y. Zhuge, **K.C. Ciesielski**, J.K. Udupa, and R.W. Miller, GPU-Based Relative Fuzzy Connectedness Image Segmentation, *Medical Physics* 40(1), 011903 (2013), pp. 1-10.

R. Strand, **K.C. Ciesielski**, F. Malmberg, and P.K. Saha, The minimum barrier distance, *Computer Vision and Image Understanding* 117(4) (2013), 429-437.

K.C. Ciesielski, P.A.V. Miranda, A.X. Falcao, and J.K. Udupa, Joint graph cut and relative fuzzy connectedness image segmentation algorithm, *Medical Image Analysis* 17(8) (2013), 1046-1057.

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Finstein, J., **Darrah, M.** and Humbert, R. (2013). Do Students in General High School Physics Classes Learn as Much from Virtual Labs as from Hands-On Labs? *National Teacher Education Journal*, (60) 3.

Darrah, M. (2013). eTouchSciences Apps, A New Way to Interact with Math and Science Content. *Future Reflections*, (32) 3.

Deshler, J.M., & Burroughs, E.A., (2013). Teaching Mathematics with Women in Mind, *The Notices of the American Mathematical Society*, 60 (9)

Simmons, N., Abrahamson, E., **Deshler, J.M.,** Kensington-Miller, B., Manarin, K., Moron-Garcia, S., Oliver, C., & Renc-Roe, J., (2013). Conflicts and Configurations in a Liminal Space: SoTL Scholars' Identity Development, *Teaching & Learning Inquiry*, 1 (2)

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Garcia, N., & **Engelke Infante, N.** (2013) Gestures: A Window to Mental Model Creation. In *Sixteenth Annual Conference on Research in Undergraduate Mathematics Education, Denver, CO* (Vol. 2, pp. 516 - 521)

Engelke, N., Karakok, G., & Wangberg, A. (2013) An Annotation Tool Designed to Interface with WeBWorK: Interpreting Students' Written Work. In *Sixteenth Annual Conference on Research in Undergraduate Mathematics Education, Denver, CO* (Vol. 2, pp. 699 - 701)

Karakok, G., **Engelke, N.**, & Wangberg, A. (2013) WeBWorK CLASS: Fostering Design Experiment Research on Concept Development. In D. King, B. Loch, & L. Rylands (Eds.), *Lighthouse Delta 2013: The 9th Delta Conference on the Teaching and Learning of Undergraduate Mathematics and Statistics, Kiama, Australia, Nov 24-29, 2013* (pp. 69-80)

Qin Wu, Xingqin Qi, **Edgar Fuller**, and **Cun-Quan Zhang**, "“Follow the Leader”: A Centrality Guided Clustering and Its Application to Social Network Analysis,” *The Scientific World Journal*, vol. 2013, Article ID 368568, 9 pages, 2013. doi:10.1155/2013/368568

X. Qi, R.D. Duval, K. Christensen, **Edgar Fuller**, A. Spahiu, Q. Wu, Y. Wu, W. Tang, and C. Zhang. Terrorist networks, network energy and node removal: A new measure of centrality based on laplacian energy. *Social Networking*, 2:19–31, 2013

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Harry Gingold, Daniel Solomon, More Compactification for Differential Systems, *Advances in Pure Mathematics*, Vol. 3, 2013, PP. 190-203.

J.Goldwasser and **R.Hansen**, *The exact Turan number of $F(3,3)$ and all extremal configurations*, *Siam J. of Discrete Math.* 27-2(2013), 910-917.

J.Goldwasser, W.Klostermeyer, and C.Mynhardt, *Eternal protection in grid graphs*, *Ars Combinatoria* 91(2013), 47-64.

Henry Gould and Tian-Xiao He, Characterization of (c)-Riordan Arrays, Gegenbauer-Humbert-type polynomial sequences, and (c)-Bell polynomials. *J. Math. Research with Applications*, 33(2013), No. 5, 505-527.

Á.M. Halász, H.-J. Lai, M. McCabe Pryor, K. Radhakrishnan, J.S. Edwards, *Analytical Solution for Chemical Reaction Networks with Bilinear Rate Laws*, *IEEE / ACM Trans. Comput. Biol. Bioinform.* 10(4), 957-969 (2013).

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Xiaofeng Gu and **Hong-Jian Lai**, Realizing degree sequences with k -edge-connected uniform hypergraphs, *Discrete Math*, 313 (2013) 1394-1400.

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Ye Chen, Zhi-Hong Chen, **Hong-Jian Lai**, Ping Li and Erling Wei, On Spanning Disjoint Paths in Line Graphs, *Graphs and Combinatorics*, 29 (2013) 1721–1731.

M. Cai, **D. Li** and C. Rattanakul: Coupled Kuramoto-Sivashinsky-KdV equations for surface wave in multi-layered liquid films, *ISRN Mathematical Physics*, Volume 2013 (2013), Article ID 673546, 8 pages.

Rong Luo, Zhengke Miao, and Rui Xu, Nowhere-zero 3-flow of graphs with independence number two, *Graphs and Combinatorics*, 29(2013) 1899-1907.

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G. Craciun, F. Nazarov, **C. Pantea**. Persistence and permanence of mass-action and power-law dynamical systems. *SIAM Journal on Applied Mathematics* 73:1 (2013) 305-329.

G Craciun, J. Kim, **C. Pantea**, G. A. Rempala. Algebraic statistical model for biochemical network inference. *Communications in Statistics - Simulation and Computation* 42:1 (2013) 121-137.

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M. Feldman and **A. Tudorascu**, *On Lagrangian solutions for the semi-geostrophic system with singular initial data*, *SIAM J. on Mathematical Analysis*, Vol. 45, No. 3 (2013), 1616--1640.

Wilfrid Gangbo and **Adrian Tudorascu**, Weak KAM Theory on the Wasserstein Torus with Multidimensional Underlying Space, COMMUNICATIONS ON PURE AND APPLIED MATHEMATICS, Volume 67, Issue 3, March 2014, Pages: 408–463.

Peixin Zhao, **Cun-Quan Zhang**, Di Wan and Xin Zhang, A Multi-dimensional and Multi membership Clustering Method for Social Networks and Its Application in Customer Relationship Management, *Mathematical Problems in Engineering* Volume 2013, Article ID 323750, 8 pages

L. M. Lovasz, C. Thomassen, Y. Wu and **CQ Zhang**, Nowhere-zero 3-ows and generalized Tutte orientations, *Journal of Combinatorial Theory (B)*, 103 (2013) 587-598.

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