

2005 Department of Mathematics Publications List

Butler, Fred, Some symmetry and unimodality properties of the q,x,y -hit numbers, Proceedings of the conference on Formal Power Series and Algebraic Combinatorics 2005, FPSAC 05 (cdrom).

Butler, Melanie and Zerr, Ryan, The use of online homework systems to enhance out-of-class student engagement, International Journal of Technology in Mathematics Education, 12(2) 51-58, 2005.

Butler, Melanie, What I learned from ... using a Personal Response System, Focus, 25(3), 2005. (not refereed).

Ciesielski, K., Millán, A., Separately nowhere constant functions; n -cube and α -prism densities. J. Appl. Anal. 11 (2005), no. 1, 49-62.

Ciesielski, Krzysztof, Pawlikowski, Janusz, Small coverings with smooth functions under the covering property axiom. Canad. J. Math. 57 (2005), no. 3, 471-493.

Bukovsk'y, Lev, **Ciesielski, Krzysztof**, Spaces on which every pointwise convergent series of continuous functions converges pseudo-normally. Proc. Amer. Math. Soc. 133 (2005), no. 2, 605-611.

Lin, Furong, **Fang, Weifu**, A linear integral equation approach to the Robin inverse problem. Inverse Problems 21 (2005), no. 5, 1757-1772.

Fang, Weifu, Cumberbatch, Ellis, Matrix properties of data from electrical capacitance tomography. J. Engrg. Math. 51 (2005), no. 2, 127-146.

Fang, W., D.A. Redfern, K. Ito, G. Bahir, C.A. Musca, J.M. Dell, and L. Farone, Investigation of laser beam induced current techniques for heterojunction photodiode characterization, J. Appl. Phys. 98 (2005), 034501 (9 pp).

Fuller, E., Yerramalla,S., Cukic,B. and Guriurajan S., An approach to predicting non-deterministic neural network behavior. In, Proceedings of the International Joint Conference on Neural Networks 2005, IJCNN '05, IEEE Press 2005, 2921-2926.

Yerramalla,S., Cukic, B., Miadenovski, M. and **Fuller, E.**, Stability monitoring and analysis of learning in an adaptive system. In: Proceedings International Conference on Dependable Systems and Networks, 2005. DSN 2005, IEEE Press, 2005, pp70-79.

Liu,Y, Cukic, B., **Fuller, E.**, Srikanth Gururajan, Yerramalla, S., Novelty detection for a neural network-based online adaptive system. In, 29th Annual Computer Software and Applications Conference, 2005. COMPSAC 2005, IEEE Press, 2005, pp117-122 Vol. 1.

Goldwasser, J., and W. Klostermeyer, Parity dominating sets in grid graphs, Congressus

Numerantium 172 (2005), 79-95.

Goldwasser, J., L. Erdős-Ko-Rado, with conditions on the minimum complementary degree. J. Combin. Theory Ser. A 109 (2005), no. 1, 45-62.

Gould, H. W., A baker's dozen proofs of a binomial identity. Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. 16 (2005), 131-138.

Fairgrieve, Steve; **Gould, Henry W.**, Product difference Fibonacci identities of Simson, Gelin-Cesaro, Tagiuri and generalizations. Fibonacci Quart. 43 (2005), no. 2, 137-141.

Gould, H. W., Sums and convolved sums of Catalan numbers and their generating functions, Indian Journal of Mathematics, 46(2004), Nos. 2-3, 137-160. (Published in 2005).

Gould, H. W., Remarks on Compositions of Numbers into Relatively Prime Parts, Notes on Number Theory and Discrete Mathematics, 11(2005), No. 3, pp. 1-6.

Lai, Hong-Jian; with X. Li; Group Chromatic number of graph, (with), Graphs and Combinatorics, 21(2005)469-474.

Lai, Hong-Jian; Li, Xiangwen; Poon, Hoifung; Nowhere zero 4-flow in regular matroids. J. Graph Theory 49 (2005), no. 3, 196-204.

Lai, Hong-Jian; Li, Xiangwen; Poon, Hoifung; **Ou, Yongbin**; Spanning trails connecting given edges. Graphs Combin. 21 (2005), no. 1, 77-88.

Lai, Hong-Jian; Li, Deying; Mao, Jingzhong; Zhan, Mingquan; Supereulerian planar graphs. Ars Combin. 75 (2005), 313-331.

Lai, Hong-Jian; Shao, Yehong; Zhan, Mingquan; Hamiltonian N_2 -locally-connected claw-free graphs. J. Graph Theory 48 (2005), no. 2, 142-146.

Li, Dengxin; **Lai, Hong-Jian**; Zhan, Mingquan; Eulerian subgraphs and Hamilton-connected line graphs. Discrete Appl. Math. 145 (2005), no. 3, 422-428.

Shuxing Chen and **Dening Li**, Conical shock waves for an isentropic Euler system. Proc. Royal Soc. Edinburgh, 135A, (2005), 1109-1127.

Liu, B., Selection of wavelet packet basis for rotating machinery fault diagnosis, J. of Sound and Vibration, 284, 2005, 567-582.

Knopfmacher, A. and **M. E. Mays**, A survey of factorization counting functions, International Journal of Number Theory, 1, no. 4, (2005), 563-582.

Knopfmacher, A. and **M. E. Mays**, Dirichlet generating functions and factorization identities,

Congressus Numerantium, 173, (2005), 117-127.

Pyzdrowski, L., Pyzdrowski, A., and **Mays, M.**, WvEB mathematics: web enhanced college courses for high school seniors, 2005 Proceedings of the Hawaii International Conference on Statistics, Mathematics, and Related Fields, 803-810.

Millán, A., A crowded Q-point under CPA_prism^game, Topology Pro. 29(1) (2005), 229-236.

Nadler, Sam B., Jr., Pointwise products of uniformly continuous functions. Sarajevo J. Math. 1(13) (2005), no. 1, 117-127.

Nadler, Sam B., Jr., Absolute cones. Topology Proc. 29 (2005), no. 1, 267-276.

Nadler, Sam B., Jr., Absolute hyperspaces and hyperspaces that are absolute cones and absolute suspensions, Bol. de la Soc. Mat. Mex. (3) 11 (2005), 121-129.

Nadler, Sam B., Jr., The Fixed Point Property for Continua, Aportaciones Mathematics, Vol 30, 2005. (Book)

Pyzdrowski, L., What I learned from ... Working in a professional community, FOCUS MAA, 25(2), 24-25.

Richards, A., **Pyzdrowski, L.**, Building a better bakery: Collaborative professional development, Proceedings of the American Council on Rural Special Education, 2005.

Pyzdrowski, A., and **L. Pyzdrowski**, A JAVA applet to explore multiple representations of function in a teacher education course. In, Proceedings of the Seventeenth Annual International Conference on Technology in Collegiate Mathematics, 2005.

Ding Xia-wan, **Liu Bao**, Liu Jin-zhao, Wang Cheng-guo, **Riemenscheider S. D.**, Hu Xiao-yi, Fault Diagnosis of Freight Car Rolling Element Bearings with Adaptive Short-Time Fourier Transform, China Railway Science, 26(6)(2005), pp 24-27.

Riemenschneider S., **Bao Liu**, Yuesheng Xu, and Norden E. Huang, B-spline Based Empirical Mode Decomposition, In Hilbert-Huang Transform and its Applications Interdisciplinary Mathematical Sciences - Vol. 5, World Scientific, ISBN 981-256-376-8, Hong-Kong, 2005, pp 27-56.

Hilton, A. J. W.; **Wojciechowski, Jerzy**, Semiregular factorization of simple graphs. AKCE Int. J. Graphs Comb. 2 (2005), no. 1, 57-62.

Wojciechowski, Jerzy, Infinite matroidal version of Hall's matching theorem. J. London Math. Soc. (2) 71 (2005), no. 3, 563-578.

Hilton, Anthony J. W.; **Wojciechowski, Jerzy**, Amalgamating infinite-Latin squares. *Discrete Math.* 292 (2005), no. 1-3, 67-81.

Wojciechowski, Jerzy, On the length of snakes in powers of complete graphs. *J. London Math. Soc.* (2) 71 (2005), no. 1, 22-32.

Kawarabayashi, Ken-ichi; Luo, Rong; Niu, Jianbing; **Zhang, Cun-Quan**, On the structure of k -connected graphs without K_k -minor. *European J. Combin.* 26 (2005), no. 3-4, 293-308.

Luo, Rong; **Zhang, Cun-Quan**, Edge-face chromatic number and edge chromatic number of simple plane graphs. *J. Graph Theory* 49 (2005), no. 3, 234-256.

Shu, Jinlong; **Zhang, Cun-Quan**, Nowhere-zero 3-flows in products of graphs. *J. Graph Theory* 50 (2005), no. 1, 79-89.

Xu, Rui; **Zhang, Cun-Quan**, On flows in bidirected graphs. *Discrete Math.* 299 (2005), no. 1-3, 335-343.

Shu, Jinlong; **Zhang, Cun-Quan**, A note about shortest cycle covers. *Discrete Math.* 301 (2005), no. 2-3, 232-238.