

PUBLICATION LIST

- (1) *Proposed Problem 11443 in the American Mathematical Monthly*, The Monthly, vol. 116, No. 6, 2009
- (2) ♣ *Solution of problem 878*, The College Mathematics Journal, May 2009
- (3) *Introduction to the Prisoners vs. Guards Puzzle*, with T. Howard and David Woolbright, Journal of Integer Sequences, vol. **12**, Article 09.1.3, (2009)
- (4) ♣ *On independent sets in purely atomic probability spaces with geometric distribution*, joint work with A. Stancu, (February 13th, 2009) accepted in Acta Math. Univ. Comenianae
- (5) ♣ *A characterization of regular tetrahedra in \mathbb{Z}^3* , J. Number Theory, 129(2009), 1066-1074.
- (6) *k-Dependence and domination in king's graph*, with D.Pritkin and S. Wright, Amer. Math. Monthly, vol. **115**, no. 9, (2008), pp. 820-836.
- (7) ♣ *Twin problems on non-periodic functions*, Crux Mathematicorum with Mathematical Mayhem, vol. 34, Issue 7, (2008), pp. 424-429.
- (8) *A characterization of all equilateral triangles in \mathbb{Z}^3* , with Ray Chandler, Integers, Art. A19 of Vol. **8** (2008)
- (9) *Minimal Niven numbers*, with F. Luca, P. Stanica and H. Fredricksen, Acta Arith. 132 (2008), 135-159.
- (10) *Counting all equilateral triangles in $\{0, 1, 2, \dots, n\}^3$* , Acta Math. Univ. Comenianae, vol. LXXVII, **1**(2008), pp.129-140.
- (11) ♣ *Remarks on a sequence of minimal Niven numbers*, joint work with F. Luca, P. Stanica and H. Fredricksen, Proceedings of the International Workshop, SSC 2007 (Sequences, Subsequences and Consequences) Springer, pages 162-168
- (12) *A proof of two conjectures related to Erdős-Debrunner inequality*, with P. Stanica and C. L. Frenzen, J. Inequal. Pure and Appl. Math, vol. 8 (2007), Issue 3, Article 68
- (13) *A parametrization of equilateral triangles having integer coordinates*, Journal of Integer Sequences, **10**, (2007), Article 07.6.7
- (14) *Heron triangles with two fixed sides*, with F. Luca and P. Stanica, J. Number Theory, 126(2007), no. 1, 52-67.
- (15) *Extreme values for the area of rectangles with vertices on concentric circles*, with P. Stanica, Elemente der Mathematik, **62** (2007), 40-43.
- (16) *Simultaneous Translational and Multiplicative Tiling and Wavelet Sets in \mathbb{R}^2* , with Yang Wang, Indiana Univ. Math. J., **55**, No 6 (2006).

- (17) with P. Stanica, *Effective Asymptotics for Some Nonlinear Recurrences and Almost Doubly-Exponential Sequences*, Acta Math. Univ. Comenian. (N.S.) 73 (2004), no. 1, 75–87.
- (18) *A new construction of wavelet sets*, Real Anal. Exchange 28 (2002/03), no. 2, 593–609.
- (19) with E. Azoff, D. R. Larson and C. Pearcy, *Direct paths of wavelets*, Houston J. Math. 29 (2003), no. 3, 737–756 (electronic).
- (20) *Rank-one perturbations of diagonal operators*, Integral Equations and Operator Theory, **39** (2001), 421–440.
- (21) with E. Azoff, *Wandering sets for a class of Borel isomorphisms of $[0, 1)$* , The Journal of Fourier Analysis and Applications, **6** (2000), 623–638.
- (22) with C. M. Pearcy, *On subwavelet sets*, Proc. Amer. Math. Soc., **126** (1998), 3549–3552.
- (23) with D. R. Larson and C. M. Pearcy, *On wavelet sets*, J. Fourier Anal. and Appl., **4**(1998), no. 6, 711–721.
- (24) with C. Pearcy and D. Larson, *On the unitary systems affiliated with orthonormal wavelet theory in n -dimensions*, J. Funct. Anal., **157** (1998), 413–431.
- (25) *On power bounded operators*, Proc. Amer. Math. Soc., 125(1997), 1435–1441.
- (26) *Jordan decomposition and factorization for nonnegative operator-valued functions*, Rev. Roumaine Math. Pures Appl., 37(1992), 691–699.
- (27) with F.-H. Vasilescu, *Joint spectral properties for permutable linear transformations*, J. Reine Angew. Math. 426(1992), 23–45.

Submitted

- (1) *Certain Binomial Sums with recursive coefficients*, (May 2009) with Emrah Kilic

Work in progress

- (1) *Counting all regular tetrahedra in $\{0, 1, \dots, n\}^3$* , continuation of (5)
- (2) *On a conjecture about Egyptian fractions*, undergraduate research project
- (3) *Half-dependence in regular and semi-regular tessellation type graphs*
- (4) *Counting all regular tetrahedra having vertices in the set $\{0, 1, 2, \dots, n\}^3$*
- (5) *Minimal Niven numbers (II)*, joint project with F. Luca, P. Stanica and H. Fredricksen.
- (6) *On positivity of bivariate polynomials*
- (7) *Differential Equations, lecture notes*, <http://www.math.gatech.edu/~ionascu>
- (8) *Lecture Notes in Number Theory* <http://math.colstate.edu/ejionascu/>
- (9) *Wavelets sets in \mathbb{R}^n associated with non-expansive dilation matrices*
- (10) *The basics of calculus with emphasis on transcendental functions*
- (11) *Amer. Math. Monthly, College Math. Journal, Math. Magazine, and Putnam Problems and Solutions*

♣-means that the paper did not appear on MathSciNet yet!

Last update, July 23rd, 2009