

List of Publications

Including citations in Mathematical Reviews (**MR**) and their 2000 Mathematics Subject Classification.

• Publications (in Time-Reversed Order):

- 60 *On a \vec{C} -ultrahomogeneous oriented graph*, Discrete Mathematics, **310** (2010) 1389–1391.
- 59 (with A. A. Delgado) *Perfect domination in rectangular grid graphs*, J. Combin. Math. Combin. Comput., 70(2009) 177–196, **MR2542674**; 05C69.
- 58 *Quasiperfect domination in triangular lattices*, Discussiones Mathematicae Graph Theory, **29**(2009), 179–198, **MR2548794**; 05C69 (68R10).
- 57 *On a $\{K_4, K_{2,2,2}\}$ -ultrahomogeneous graph*, Austral. Jour. Combin., **44**(2009), 63–75, **MR2526999**; 05C75.
- 56 *SQS-graphs of extended 1-perfect codes*, Congressus Numerantium, **193**(2008), 175–194, **MR2487725**; 94B05, (05C90).
- 55 *Perfect domination in regular grid graphs*, Austral. Jour. Combin., **42**(2008), 99–114, **MR2445802**; 05C69.
- 54 (with C. C. Lindner, C. A. Rodger and M. Meszka) *Almost resolvable 4-cycle systems*, J. Combin. Math. Combin. Comput., **63**(2007), 173–182, **MR2363921** (2008j:05051) ; 05C05; (Corrigendum-Addendum: J. Combin. Math. Combin. Comput. 66 (2008), 297–298; **MR2436211** (2009d:05029); 05B05).
- 53 (with A. A. Delgado) *Classes of Hamilton Cycles in the 5-Cube*, J. Combin. Math. Combin. Comput., **61**(2007), 81–95, **MR2322204**; 05C45.
- 52 (with P. Horak) *Completing Latin squares: critical sets, II*, Jour. Combin. Des., **15**(2007), 177–83, **MR2280765** (2007g:05027); 05B14.
- 51 (with A. A. Delgado) *STS-Graphs of Perfect Codes Mod Kernel*, Discrete Mathematics, **253**(2005), 31–47, **MR2139124** (2006b:94051); 94B05, (05B05,05B07).
- 50 (with O. Serra) *Efficient Dominating Sets in Cayley Graphs*, Discrete Appl. Math. **129**(2003), no. 2-3, 319–328, **MR1997355** (2004e:05137); 05C69 (05C25).
- 49 *Equitable Factorizations of Hamming Shells*, Discrete Math. **261**(2003), 177–178, **MR1961745** (2004b:94085); 94B05 (94B25).

- 48 *STS-Graphical Invariant for Perfect Codes*, J. Combin. Math. Combin. Comput., **36**(2001), 65–82, **MR1821626** (2002d:94063a), **MR1853021** (2002d:94063b); 94B25 (05B07).
- 47 (with K. T. Phelps), *Ternary Hamming and Binary Perfect Covering Codes*, in: A. Barg and S. Litsyn, eds., Codes and Association Schemes, DIMACS Ser. Discrete Math. Theoret. Comput. Sci. 56, Amer. Math. Soc., Providence, RI, 111–113, **MR1816391** (2002a:94026); 94B05 (05C69).
- 46 *Excluded Minors for [2, 3]-Graph Planarity*, J. Combin. Math. Combin. Comput., **35**(2000), 117–126, bf **MR1806992** (2001j:05112); 05C83.
- 45 (with P. A. Adams, E. J. Billington and C. C. Lindner) *The Number of 4-Cycles in 2-Factorizations of K_{2n} minus a 1-factor*, Discrete Math. 220 (2000), no.1-3, 1–11, **MR1760292** (2001c:05110); 05C70 (05C38).
- 44 *Twisted Perfect Dominating Sets in 2^r -Cubes*, Proceedings of the Eighth International Quadriennial Conference on Graph Theory, Combin., Algor. and Appl., New Issues Press, 1998, eds. Y. Alavi et al., vol. I, 281–290, **MR1985061**; 05C69.
- 43 (with C. Lindner and A. Rosa) *The Number of 4-Cycles in 2-Factorizations of K_n* , J. Combin. Math. Combin. Comput., **28**(1998), 101–112, **MR1668510** (2000d:05094); 05C70 (05C38).
- 42 (with D. Pike and C. Rodger) *The Directed Almost Resolvable Hamilton-Waterloo Problem*, Australas. J. Combin., **18**(1998), 201–208, **MR1658345** (99f:05044); 05C20 (05C38).
- 41 (with H. Hevia and O. Serra) *Hidden Cayley Graph Structures*, Discrete Mathematics, **182**(1998), 69-83, **MR1603724** (98m:05082); 05C25 (05C10 20B25).
- 40 (with F. Franek, E. Mendelsohn and A. Rosa), *Triangles in 2-Factorizations*, J. Graph Theory, **26**(1997) 83-94, **MR 98e:05086**.
- 39 (with F. Franek and A. Rosa), *A Completion Conjecture for Kirkman Triple Systems*, Utilitas Mathematica, **50**(1996) 97–102, **MR1469355** (98e:05086); 05C70.
- 38 *Symmetry of Factors of the 7-Cube Hamming Shell*, J. Combinatorial Designs, **5**(1997) 301–309, **MR1451287** (98h:05048) ; 05B30 (05C70 94C15).
- 37 *TMC-Tetrahedral Types MOD $2k + 1$ and Their Structure Graphs*, Graphs and Combin., **12**(1996) 163–178, **MR1391092** (97c:05075); 05C25.
- 36 (with J. Borges) *On Perfect Dominating Sets in Hypercubes and Their Completions*, J. Combin. Math. Combin. Comput., **20**(1996) 161–173, **MR1376707** (97a:05166); 05C70.
- 35 (with J. Pujol), *Perfect Domination and Symmetry in Hypercubes*, Congressus Numerantium, **111**(1995) 18–32, **MR1369337** (96h:05150); 05C70.
- 34 (with R. Giudici) *On Unitary Cayley Graphs*, J. Combin. Math. Combin. Comput., **18**(1995) 121–124, **MR1334639** (96a:05069); 05C25.

- 33 *Network Models Encoded by Weighted Tetrahedra*, in: Y. Alavi et al., eds., *Graph Theory, Combin. and Appl. of Graphs*, Wiley 1995, Vol I, 289-300, **MR1405817** (97d:05265); 05C99.
- 32 (with C. Barrientos and H. Hevia) *Equitable Labelings of Forests*, in Y. Alavi et al., eds., *Combin. and Graph Theory '95*, Vol 1, (ed. Y. Alavi), World Scientific, Singapore (1995), 1-26; **MR 98g:05133**.
- 31 (with P. Rivera-Vega and A. Rosa) *Invariants for 2-Factorizations and Cycle Systems*, *J. Combin. Math. Combin. Comput.* **16**(1994), 129–152. **MR1301216** (95h:05036); 05B30.
- 30 *Recognizing the Hidden Structure of Cayley Graphs*, in N. Dean and G. E. Shannon, eds., *Computational Support for Discrete Mathematics*, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, vol. 15, American Mathematical Society, 1994, 379–390, **MR1281820** (95d:05064); 05C25 (05C85 68R10).
- 29 *On Symmetric Subgraphs of the 7-Cube: An Overview*, *Discrete Mathematics*, **124**(1994), no. 1-3, 55–66, **MR1258842** (95d:05089); 05C60.
- 28 (with J. Rifà) *About some Additive Codes Associated to Distance Regular Graphs*, *Proc. Codigraf '93, II Int. Conf. on Graph Theory, Codes and Combin.*, Platja d'Aro (Catalonia, Spain), Universitat Autònoma de Barcelona and Universitat Politècnica de Catalunya, 1993, 18-26.
- 27 (with R. Figueroa) *On the TMC-Triangle Structure of Complete Cayley Graphs*, *Vishwa International J. Graph Theory*, **2**(1993) 73-84.
- 26 (with P. Weichsel) *Twisted Perfect Dominating Subgraphs of Hypercubes*, *Congressus Numerantium*, **94**(1993) 67–78, **MR1267261** (95d:05098), **MR1421149** (97h:05133); 05C70.
- 25 (with W. Cedeño and V. Jáuregui) *A Note on F-diagrams, Boolean Graphs and Hamilton Cycles*, *Discrete Math.* **114**(1993) 131-135, **MR1217747** (94e:05174); 05C45.
- 24 (with A. E. Brouwer and C. Thomassen) *Highly Symmetric Subgraphs of Hypercubes*, *J. Algebraic Combin.*, **2**(1993) 25–29, **MR1210399** (94c:05037); 05C25 (05C15).
- 23 (with W. Cedeño and V. Jáuregui) *Frucht Diagrams, Boolean Graphs and Hamilton Cycles*, *Scientia, Ser. A, Math. Sci.*, **5**(1992/93) 21–37, **MR1717974** (2001d:05075); 05C25.
- 22 (with V. Neumann-Lara) *Voltage Graphs and Hamilton Cycles*, in V. Kulli ed., *Advances in Graph Theory*, Vishwa Int. Publ., Gulbarga, India, 1991, 141–153, **MR1218635** (94a:05135); 05C45.

- 21 (with J. Quintana) *On an Extension of a Conjecture of I. Havel*, in Y. Alavi et al. eds., *Graph Theory, Combin. and Appl.*, J. Wiley 1991, vol I, 327–342, **MR1170788** (93b:05104); 05C45.
- 20 (with P. Guan) *Square-Blocking Edge Subsets of Hypercubes and Vertex Avoidance*, in Y. Alavi et al. eds, *Graph Theory, Combin., Algor. and Appl.*, SIAM Proc., Philadelphia 1991, 162–174, **MR1132899** (92g:05108); 05C35.
- 19 (with P. Guan and R. Emamy) *On the Fault Tolerance in a 5-cube*, *Congressus Numerantium*, **80**(1991) 171–176, **MR1124872** (92j:52029); 52C10.
- 18 *Quarter-Turns and Hamilton Cycles for Annular Chessknight Graphs*, *Scientia, Ser. A, Math. Sci.*, **4**(1990/91) 21–29.
- 17 *Totally Multicolored Subgraphs of Complete Cayley Graphs*, *Congressus Numerantium*, **70**(1990) 53–64, **MR1041584** (91c:05079); 05C15 (05C25).
- 16 (with I. Rubio) *Monomial Permutations with Uniform Cycle Length*, *Congressus Numerantium*, **69**(1989) 245–252, **MR0995890** (90m:11196); 11T06.
- 15 *Vertex-Specular Covering Graphs and Their Properties*, *Coll. Math. Soc. J. Bolyai*, **52**(1987) 545–546, **MR1221594**; 05C75.
- 14 (with V. Neumann-Lara) *Unboundedness for Odd Cyclic Transversality*, *Coll. Math. Soc. J. Bolyai*, **52**(1987) 195–203, **MR1221557** (94b:05117); 05C38 (05C55).
- 13 (with J. Córdova and J. Quintana) *Two Hamilton Cycles in Bipartite Reflective Kneser Graphs*, *Discrete Math.* **72**(1988) 63-70, **MR0975524** (90a:05129); 05C45.
- 12 *(1, 2k)-Chessknight Hamilton Cycles Invariant under Quarter Turns*, *Scientia, Ser. A, Math. Sci.*, **2**(1988) 39-51 (Special volume in honor of R.Frucht).
- 11 *Minimal Hamiltonian and Nonhamiltonian Covering Graphs of K_n* *Ars Combinatoria*, **25C**(1988) 63–71, **MR0943378** (89j:05049); 05C45 (05C70).
- 10 (with J. Quintana) *Long Cycles in Revolving Door Graphs*, *Congressus Numerantium*, **60**(1987) 163–168, **MR0945229** (89d:05118); 05C38 (05C45).
- 9 *Unfolding m -Genus Tori around Cayley graphs*, *Ars Combinatoria*, **20A**(1985) 125-133, **MR0831455** (87f:05055); 05C10.
- 8 *Stratification for Hamiltonicity*, *Congressus Numerantium*, **47**(1985) 265-272, **MR0830689** (87d:05112); 05C45.
- 7 *Hamilton Cycles and Quotients of Bipartite Graphs*, in Y. Alavi et al., eds., *Graph Theory and its Applications to Algorithms and Computer Science*, Wiley, 1985, 189-199, **MR0812665** (87a:05101); 05C45.
- 6 *Equivalent Conditions for Euler Problem on Z_4 -Hamilton Cycles*, *Ars Combinatoria*, **16B**(1983) 285-295, **MR0737129** (85k:05073); 05C45.

- 5 *On Equivariant Homotopic Equivalences*, Boletim da Sociedade Brasileira de Matemática, **2**(1981), 83–94, **MR0688190** (84k:57026); 57S17 (57S25).
- 4 *Coefficients of Paracyclotomic Polynomials*, Annals of the XII Brazilian Mathematical Colloquium, Instituto de Matemática Pura e Aplicada, Rio de Janeiro, 1979, 1–13.
- 3 *G-Transversality to CP^n* , Springer-Verlag Lecture Notes in Mathematics, **652**(1976) 222-239, **MR0505663** (81d:57032); 57S15 (55R10 57R99).
- 2 *$SO(3)$ -Deformations for Quasi-Equivalences to Transversality*, Annals of the XI Brazilian Mathematical Colloquium, Instituto de Matemática Pura e Aplicada, Rio de Janeiro, 1977, **MR0526374** (80k:57053); 57R35.
- 1 *Smooth S^1 -Manifolds in the Homotopy Type of CP^n* , Mich. Math. J., **23**(1976) 83-95, **MR0402789** (53-6603); 57E25.

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