

Pantelimon Stanica

1. Books, Editing and Chapters in Books

1. T.W. Cusick, P. Stanica, *Cryptographic Boolean Functions and Applications*, Edition 2, Academic Press - Elsevier, 2017.
2. T.W. Cusick, P. Stanica, *Cryptographic Boolean Functions and Applications*, Edition 1, Academic Press - Elsevier, March 2009.
3. *Proc. Of International Conference on Fibonacci Numbers* (F. Luca, P. Stanica, eds.), Utilitas Mathematica, *Congressus Numerantium* Vol. 201, January 2010.
4. *Proc. Of International Conference on Fibonacci Numbers* (F. Luca, P. Stanica, eds.), *Aportaciones Matematicas*, Investigacion 20, Soc. Matematica Mexicana, 2011.
5. M. E. McCay, J. T. Butler, and P. Stanica, *Using a reconfigurable computer to compute algebraic immunity*, in B. Steinbach (Editor): *Recent Progress in the Boolean Domain*, Cambridge Scholars Publishing, Newcastle upon Tyne, UK, 2014, Section 3.3, pp. 170-185.

2. Publications in refereed journals

110. P. Stanica, T. Sasao, J.T. Butler, *Distance duality on some classes of Boolean functions*, accepted *J. Combin. Math. and Combin. Computing*.
109. F. Luca, P. Stanica, *Perfect squares as concatenation of consecutive integers*, accepted in *American Math. Monthly*.
108. Q. Wang, P. Stanica, *A new upper bound for the covering radius of the second order Reed-Muller code of length 128*, *Cryptography and Communications*, 2018.
107. B. Mandal, P. Stanica, S. Gangopadhyay, *New classes of p-ary bent functions*, *Cryptography and Communications*, 2018, 1-16.
106. F.N. Castro, L.A. Medina, P. Stanica, *Generalized Walsh transforms of symmetric and rotation symmetric Boolean functions are linear recurrent*, *Applicable Algebra in Engineering, Communication and Computing* 2018, 1-21.
105. S. Gangopadhyay, B. Mandal, P. Stanica, *Gowers U3 norm of Maiorana-McFarland bent Boolean functions*, *Designs, Codes & Cryptography* 86:5 (2018), 1131-1148.
103. S. Gangopadhyay, G. Paul, A.K. Saini, N. Sinha, P. Stanica, *Generalized nonlinearity of S-boxes*, *Advances on Mathematics of Communications* 12:1 (2018), 115-122.
102. T. Martinsen, W. Meidl, S. Mesnager, P. Stanica, *Decomposing generalized bent and hyperbent functions*, *IEEE Trans. Information Theory* 63:12 (2017), 7804-7812.
101. T. Martinsen, W. Meidl, P. Stanica, *Partial spread and vectorial generalized bent functions*, *Designs, Codes & Cryptography* 85:1 (2017), 1-13.
100. E.J. Ionascu, T. Martinsen, P. Stanica, *Bisecting binomial coefficients*, *Discrete Applied Math* 227 (2017), 70-83.
99. G.N. Stanica, P. Stanica, *Recurrences for entries of powers of matrices*, *Fibonacci Quarterly* 55:5 (2017) (*Proc. Intern. Conf. Fib. Numbers and Applications 2016*), 166-173.
98. T. Martinsen, W. Meidl, P. Stanica, *Generalized bent functions and their Gray images*, *Proc. of WAIFI 2016: Arithmetic of Finite Fields*, LNCS 10064 (2017), 160-173.

97. S. Gangopadhyay, S. Maitra, N. Sinha, P. Stanica, **Quantum Algorithms related to HN-Transforms of Boolean Functions**, Proc. C2SI-Carlet 2017: Codes, Cryptology and Information Security, LNCS 10194, 2017, pp. 314-327.
96. F. Luca, P. Stanica, **Monotonic pinomial coefficients**, Bulletin Australian Math Soc. 95 (2017), 365-372.
95. B. Mandal, S. Gangopadhyay, P. Stanica, **Cubic Maiorana-McFarland bent functions with no affine derivatives**, International J. Computer Mathematics 2:1 (2017), 1-14.
94. S. Gangopadhyay, A. Gangopadhyay, S. Pollatos, P. Stanica, **Biased cryptographic Boolean functions**, Cryptography and Communications (Discrete Structures, Boolean Functions and Sequences) 9:2 (2017), 301-314.
93. S. Gangopadhyay, E. Pasalic, P. Stanica, S. Datta, **A note on non-splitting Z-functions**, Information Processing Letters 121 (2017), 1-5.
92. F. Luca, P. Stanica, **Counting permutation equivalent degree six binary polynomials invariant under the cyclic group**, Applicable Algebra in Engineering, Communic. & Computing 28 (2017), 1-10.
91. P. Stanica, **Weak and strong 2^k -bent functions**, IEEE Trans. Information Theory 62:5 (2016), 2827-2835.
90. C. Etherington, M. Anderson, E. Bach, J. Butler, P. Stanica, **A parallel approach in computing correlation immunity in six variables**, International Journal of Foundations of Computer Science 27:4 (2016), 511-528.
89. F. Luca, P. Stanica, **On Fibonacci numbers which are elliptic Carmichael**, Periodica Mathematica Hungarica 72:2 (2016), 171-179
88. P. Stanica, S. Gangopadhyay, E. Pasalic, B. Mandal, **An analysis of the C class of bent functions**, Fundamenta Informaticae 146 (2016), 1-22.
87. S. Gangopadhyay, P. Stanica, **Fourier Entropy-Influence Conjecture for Cryptographic Boolean Functions**, Special issue on "Advances in Cryptology and Information Security" in Transactions on Advanced Research, Vol. 12:2, (2016), 8-14.
86. Yu. Bilu, T. Komatsu, F. Luca, A. Pizarro-Madariaga, P. Stanica, **On a divisibility relation for Lucas sequences**, J. Number Theory 163 (2016), 1-18.
85. C. Carlet, D. Joyner, P. Stanica, D. Tang, **Cryptographic properties of monotone Boolean functions**, Journal of Mathematical Cryptology (2016).
84. F. Zhang, S. Xia, P. Stanica, Y. Zhou, **Further results on constructions of generalized bent Boolean functions**, Inform. Sciences - China. 59 (2016), 1-3.
83. T.W. Cusick, P. Stanica, **Counting equivalence classes for monomial rotation symmetric Boolean functions with prime dimension**, Cryptography and Communications (Discrete Structures, Boolean Functions and Sequences), 2016, 1-15.
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81. P. Stanica, **Affine equivalence of quartic monomial rotation symmetric Boolean functions in prime power dimension**, Information Sciences 314 (2015), 212-224.
80. C. Martinsen, P. Stanica, **Asymptotic behavior of gaps between roots of weighted 80. factorials**, Fibonacci Quarterly 53:3 (2015), 213-218.
79. J.H. Chung, P. Stanica, C.H. Tan, Q. Wang, **A construction of Boolean functions with good cryptographic properties**, International J. Computer Mathematics (2015), 700-711.
78. W. Banks, C. Finch, F. Luca, C. Pomerance, P. Stanica, **Sierpinski and Carmichael Numbers**, Transactions of AMS 367 (2015), 355-376.
77. F. Luca, P. Stanica, **On numbers of the form $p+2^{n-n}$** , J. Combinatorics and Number Theory 6:3 (2015), 157-162.
76. Q. Wang, C. Carlet, P. Stanica, C.-H. Tang, **Cryptographic Properties of the Hidden Weighted Bit Function**, Discrete Applied Mathematics 174 (2014), 1-10.

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67. S. Gangopadhyay, E. Pasalic, P. Stanica, **A note on generalized bent criteria for Boolean functions**, *IEEE Trans. Information Theory* **59:5** (2013), 3233-3236.
66. P. Stanica, T. Martinsen, S. Gangopadhyay, B. Kumar Singh, **On Generalized Bent Functions**, *Designs Codes, Cryptography* **69:1** (2013), 77-94.
65. E. Kilic, P. Stanica, **General Approach in Computing Sums of Products of Binary Sequences**, *Hacettepe J. Math.* **42:1** (2013), 1-7.
64. P. Stanica, S. Sarkar, S.G. Gupta, S. Maitra, N. Kar, **Counting Heron triangles with constraints**, *Integers* **13** (2013), #A3.
63. E. Kilic, P. Stanica, **The inverse of banded matrices**, *Journal of Computational and Applied Mathematics* **237** (2013), 126-135.
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61. F. Luca, P. Stanica, **On the Euler function of the Catalan numbers**, *Journal of Number Theory* **132** (2012), 1404-1424.
60. J. Fox, R. Gera, P. Stanica, **The Independence Number for the Generalized Petersen Graphs**, *Ars Combinatoria* **103** (2012), 439-451.
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58. E. Kilic, P. Stanica, **Factorizations and representations of binary polynomial recurrences by matrix methods**, *Rocky Mountain Journal of Mathematics* **41:4** (2011), 1247-1264.
57. C. Chun, P. Stanica, B. Neta, **Recurrence relations for a third-order family of methods in Banach spaces**, *Computers and Mathematics with Applications* **61** (2011), 1665-1675.
56. T.W. Cusick, Y. Li, P. Stanica, **On a Combinatorial Conjecture**, *Integers* **11** (2011), 185-203; also in *J. Combinatorial Number Theory* **11** (2011), Art. #17 (17pp).
55. R. Gera, P. Stanica, **The Spectrum of the Generalized Petersen Graphs**, *Australasian Journal of Combinatorics* **49** (2011), 39-45.
54. E. Kilic, P. Stanica, **A matrix approach for general higher order linear recurrences**, *Bulletin of the Malaysian Mathematical Sciences Society* **34** (1) (2011), 51-67.
53. E. Kilic, P. Stanica, **The Lehmer matrix and its recursive analogue**, *J. of Combinat. Math. and Combinat. Computing* **74** (2010), 193-205.

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51. F. Luca, D. Marques, P. Stanica, **On the spacings of C-nomial coefficients**, in *J. Number Theory* 130:1 (2010), 82-100.
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49. E. Kilic, P. Stanica, **Factorizations and representations of second order linear recurrences with indices in arithmetic progressions**, *Bulletin Mex. Math. Soc.* 15 (2009), 1-8.
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46. C. Dartyge, F. Luca, P. Stanica, **On digit sums of multiples of an integer**, *J. Number Theory* 129:11 (2009), 2820-2830.
45. N. Petrakos, G. Dinolt, B. Michael, P. Stanica, **Cube-Type Algebraic Attacks on Wireless Encryption Protocols**, *IEEE Computer* 42:10 (2009), 106-108.
44. S. Konyagin, F. Luca, P. Stanica, **Sum of Divisors of Fibonacci numbers**, *Uniform Distribution Theory* Vol. 4 (2009), No. 1, 1-8.
43. S. Maitra, Y. V. Subba Rao, P. Stanica, S. Gangopadhyay, **Nontrivial solutions to the cubic sieve congruence problem $x^3 \equiv y^2 z \pmod{p}$** , Special Issue on *Applied Cryptography & Data Security* in Journal of "Computacion y Sistemas" Vol.12, No.3 (2009) (eds. F. Rodriguez-Henriquez, D. Chakraborty), 253-266.
42. E. Kilic, P. Stanica, **Generating matrices for weighted sums of a second order linear recurrence**, *Journal of Integer Sequences*, Vol. 12 (2009), Article 09.2.7.
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40. P. Stanica, S. Maitra, **Rotation-Symmetric Functions – Count and Cryptographic Properties**, *Discrete Applied Mathematics* 156.10 (2008), 1567-1580.
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38. M. Filaseta, F. Luca, P. Stanica, R. Underwood, **Galois Groups of Polynomials Arising from Circulant Matrices**, *J. Number Theory* 128:1 (2008), 59-70.
37. P. Stanica, **Graph eigenvalues and Walsh spectrum of Boolean functions**, *Integers-Journal of Combinatorial Number Theory* 7(2), Art. 32, 2007.
36. T.W. Cusick, H. Fredricksen, P. Stanica, **On the delta sequence of the Thue-Morse sequence**, *Australasian Journal of Combinatorics* 39 (2007), 293-300.
35. **Resolution of some conjectures related to Erdos-Debrunner inequality** (C. Frenzen, E. Ionascu, P. Stanica), *J. Ineq. Pure Appl. Math.* 8 (2007), Issue 3, 13pp.
34. M. Filaseta, F. Luca, P. Stanica, R. Underwood, **Two Diophantine Approaches to the Irreducibility of Certain Trinomials**, *Acta Arithmetica* 128 (2007), 149-156.
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30. R. Gera, S. Horton, C. Rasmussen, P. Stanica, **Results on the min-sum vertex cover problem**, *Congr. Numer.* 178 (2006), 161-172.

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27. F. Luca, P. Stanica, *On a conjecture of Ma*, *Resultate der Mathematik (Results in Mathematics)* 48 (2005), no. 1-2, 109-123.
26. F. Luca, P. Stanica, *Prime Divisors of Lucas Sequences and a Conjecture of Skalba*, *International Journal of Number Theory*, Vol. 1, No. 4 (2005) 583-591.
25. W. Banks, F. Luca, F. Saidak, P. Stanica, *Composition with the Euler and the Carmichael function*, *Abhandlungen aus dem Math. Seminar der Universität Hamburg* 75 (2005), 215–243.
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23. N.B. Limaye, D.G. Sarvate, P. Stanica, P. Young, *Regular and Strongly Regular Planar Graphs*, *Journal of Combinatorial Math. and Combinatorial Computing* 54, 111-127 (2005).
22. F. Luca, P. Stanica, *Fibonacci numbers that are not sum of two primes powers*, *Proceedings of American Mathematical Soc.* 133 (2005), 1887-1890.
21. C. Georgescu, C. Joita, W. Nowell, P. Stanica, *Chaotic Dynamics of Some Rational Maps*, *Discrete and Continuous Dynamical Systems –Ser. A* 12: 2 (2005), 363-375.
20. P. Stanica, J.A. Clark, J.L. Jacob, S. Maitra, *Almost Boolean Functions: the Design of Boolean Functions by Spectral Inversion*, *Computational Intelligence* 20: 3 (2004), 450-462.
19. E. Ionascu, P. Stanica, *Asymptotic expansions for some nonlinear recurrences and almost doubly-exponential sequences*, *Acta Math. Universitatis Comenianae* LXXIII 1 (2004), 1–13.
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1. P. Stanica, *Generating Functions, Weighted and Non-Weighted Sums for Powers of Second-Order Recurrence Sequence*, *Fibonacci Quarterly* 41 (2003), 321-333.
16. P. Stanica, p^q - *Catalan Numbers and Squarefree Binomial Coefficients*, *J. Number Theory* 100/2 (2003), 203 - 216.
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5. F. Smith, P. Stanica, *Muller-Twist or Comply-Constrain Games*, *Integers-Electronic Journal of Combinatorial Number Theory*, vol. 3 (2002), art. G3.
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3. Publications in refereed conference proceedings

1. T. Martinsen, W. Meidl, A. Pott, P. Stanica, *On symmetry and differential properties of generalized Boolean functions*, Proc. WAIFI: Arithmetic of Finite Fields, 2018.
2. C. Riera, P. Sole, P. Stanica, *A complete characterization of plateaued Boolean functions in terms of their Cayley graphs*, Proc. Africacrypt (Marrakesh-Morocco), LNCS, Springer-Verlag, 2018.
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4. P. Stanica, *Normic continued fractions in totally and tamely ramified extensions of local fields*, *Proc. International Conf. Fibonacci Numbers and Application* *Fibo. Quart.* Vol. 52:5 (2014), 193-200.
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9. J.L. Shafer, S.W. Schneider, J.T. Butler, P. Stanica, *Enumeration of Bent Boolean Functions by Reconfigurable Computer*, *The 18th Annual International IEEE Symposium on Field-Programmable Custom Computing Machines (FCCM-2010)*, 265-272.
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13. P. Stanica, *On the nonexistence of bent rotation symmetric Boolean functions of degree greater than two* (P. Stanica), *Proceedings of NATO Advanced Studies Institute (Boolean Functions in Cryptology and Information Security - NATO Science for Peace and Security)*, Ed. O.A. Logachev (2008), 214-218.
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20. A.M. Youssef, T.W. Cusick, P. Stanica, S.E. Tavares, *New bounds on the number of functions satisfying the strict avalanche criteria*, *Selected Areas of Cryptology*, Queen's University, Kingston, Canada, pp. 49-56, 1996.