

List of publications (up dated 19.2.2024)

Edita Pelantová - Šiňajová

Articles in refereed journals

1. L. Dvořáková, E. Pelantová: An upper bound on asymptotic repetitive threshold of balanced sequences via colouring of the Fibonacci sequence, to appear in TCS, arXiv:2211.11877
2. I. I. Farkas, E. Pelantová, M. Svobodová: From positional representation of numbers to positional representation of vectors, Acta Polytechnica **63** No.3 (2023) 188–198.
3. É. Charlier, C. Cisternino, Z. Masáková, E. Pelantová: Spectrum, algebraicity and normalization in alternate bases, Journal of Number Theory, **249** (2023) 470–499.
4. J. Lepšová, E. Pelantová, Š. Starosta: On a Faithful representation of Sturmian morphisms, European Journal of Combinatorics **110**, (2023) article no. 103707
5. L. Dvořáková, D. Opočenská, E. Pelantová: Asymptotic repetitive threshold of balanced sequences, Mathematics of Computation, **92** (2023) 1402–1429.
6. F. Dolce, L. Dvořáková, E. Pelantová, On balanced sequences and their critical exponent, Theor. Comp. Sci **939**. (2023) 18 –47.
7. L. Dvořáková, D. Opočenská, E. Pelantová, A. Shur: On minimal critical exponent of balanced sequences, Theor. Comp. Sci **922** (2022) 158–169.
8. F. Dolce, E. Pelantová: *On morphisms preserving palindromic richness*, Fundamenta Informaticae, **185** 1, (2022) 1–25.
9. E. Pelantová, T. Vávra: *On positional representation of integer vectors*, Lin. Alg. & App., **633** (2022), 316–331.
10. P. Ambrož, Z. Masáková, E. Pelantová: *Lattice Bounded Distance Equivalence for 1D Delone Sets with Finite Local Complexity*, Journal of Geometry and Symmetry in Physics **59** (2021) 1-29
11. C. Lagisquet, E. Pelantová, S. Tavenas, L. Vuillon, *On the Markov numbers: fixed numerator, denominator, and sum conjectures*, Advances in Applied Mathematics **130**, (2021), 102227
12. J. Mazáč, Z. Masáková, E. Pelantová: *On generalized self-similarities of cut-and-project sets* Lin. Alg. & App. **625** (2021), 279-321.
13. E. Pelantová, Š. Starosta: *On Sturmian substitutions closed under derivation*, Theor. Comput. Sci, **867**, (2021), 128–139.

14. K. Medková, E. Pelantová, E. Vandomme: *On non-repetitive complexity of Arnoux-Rauzy words*, Disc. App. Math. **285** (2020), 423–433.
15. L. Dvořáková, K. Medková, E. Pelantová: *Complementary symmetric Rote sequences: the critical exponent and the recurrence function*, DMTCS **22** (1) (2020), #20.
16. P. Ambrož, Z. Masáková, and E. Pelantová: *Morphisms generating antipalindromic words*, Eur. J. Comb **89** (2020), 103160.
17. K. Medková, E. Pelantová, L. Vuillon: *Derivated sequences of complementary symmetric Rote sequences*, RAIRO-Theor. Inf. Appl. **53** (2019), 125–151.
18. Ch. Frougny, M. Pavelka, E. Pelantová, M. Svobodová: *On-line algorithms for multiplication and division in real and complex numeration systems*, DMTCS, **21** (3), (2019), # 14.
19. P. Ambrož, O. Kadlec, Z. Masáková, and E. Pelantová: *Palindromic length of words and morphisms in class P*, Theor. Comput. Sci. **780**, (2019), 74 – 83,
20. Ch. Frougny and E. Pelantová: *Two applications of the spectrum of numbers*, Acta Math. Hungar. **156** (2) (2018), 391-407.
21. K. Klouda, K. Medková, E. Pelantová, Š. Starosta: *Fixed points of Sturmian morphisms and their derivated words*. Theor. Comput. Sci. **743**, (2018), 23-37.
22. S. Baker, Z. Masáková, E. Pelantová, T. Vávra: *On periodic representations in non-Pisot bases*, Monatshefte für Math., **184**(1), (2017), 1-19.
23. S. Labbé, E. Pelantová, Š. Starosta: *The Zero Defect Conjecture*, European J. Combin. **62** (2017), 132-146.
24. Z. Masáková, E. Pelantová, Š. Starosta: *Exchange of three intervals: substitutions and palindromicity*, European J. Combin. **62** (2017), 217-231.
25. Z. Masáková, E. Pelantová, Š. Starosta: *Itineraries induced by exchange of three intervals*, in Acta Polytechnica **56** (6), (2016), 868-871.
26. E. Pelantová, Š. Starosta: *Constructions of word rich in palindromes and pseudopalindromes*, Discrete Mathematics & Theoretical Computer Science, vol. 18:3, (2016), #16
27. E. Pelantová, Š. Starosta, M. Znojil: *Markov constant and quantum instabilities*, J. Phys. A: Math. Theor. **49** 155201 (2016)
28. S. Labbé, E. Pelantová: *Palindromic sequences generated from marked morphisms* European Journal of Combinatorics (2016), 200–214.

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30. T. Hejda, E. Pelantová: *Spectral properties of cubic complex Pisot units*. Math. Comput. 85(297) (2016)
31. Ch. Frougny, P. Heller, E. Pelantová, M. Svobodová: *k-block parallel addition versus 1-block parallel addition in non-standard numeration systems* Theor. Comput. Sci. 543 (2014), 52–67
32. E. Pelantová, Š. Starosta: *Palindromic richness for languages invariant under more symmetries*, Theor. Comput. Sci. 518 (2014), 42–63,
33. T. Jajcayová, E. Pelantová, Š. Starosta: *Palindromic closure using multiple anti-morphisms*, Theor. Comp. Sci. 533 (2014), 37–45
34. K. Břinda, E. Pelantová, O. Turek: *Balances of m-bonacci words*, Fundam.Inform. 132(1), (2014) 33-61
35. Z. Masáková, E. Pelantová: *Itineraries induced by exchange of two intervals - věnováno k 75. narozeninám prof. M. Havlíčka*, Acta Polytechnica 53, (2013), 444–449
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37. Ch. Frougny, E. Pelantová, M. Svobodová: *Minimal digit sets for parallel addition in non-standard numeration systems*, in Journal of Integer sequences, 16 (2013)
38. L. Balková, E. Pelantová, Š. Starosta: *Proof of Brlek Reutenauer Conjecture*, Theor. Comp. Sci. 475 (2013), 120-125.
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40. T. Hejda, Z. Masáková, E. Pelantová: *Greedy and lazy representations in negative base systems*, Kybernetika 49 (2013), 258–279,
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52. Z. Masáková, E. Pelantová, T. Vávra: *Arithmetics in number systems with negative base*, Theor.Comp.Sci. 412, Issues 8-10, 4 (2011), 835-845.
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54. M. Havlíček, E. Pelantová, J. Tolar: *On representations of $sl(n, C)$ Compatible with Z_2 grading*, Acta Polytechnica, 50 No.5 (2010) 30-39.
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Refereed contributions in conference proceedings

1. Z. Masáková, E. Pelantová, K. Studeničová: Rewriting Rules for Arithmetics in Alternate Base Systems. In: Drewes, F., Volkov, M. (eds) Development in language Theory. DLT 2023. Lecture Notes in Computer Science, vol 13899. Springer, Cham. 195–207.
2. Ľ. Dvořáková, M. Mašek, E. Pelantová: On a Class of 2-Balanced Sequences. In: Frid, A., Mercas, R. (eds) Combinatorics on Words. WORDS 2023. Lecture Notes in Computer Science, vol 13899. Springer, Cham. 143–154
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