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## Publications

1. **Gheorghe Craciun, Paul Horja, Mihai Prunescu, Tudor Zamfirescu:** *Most homeomorphisms of the circle are semi-periodic.* Archiv der Mathematik (Basel) 64, 452-458, 1995.
2. **Mihai Prunescu:** *A structural approach to diophantine definability.* Konstanzer Dissertationen, Hartung - Gorre Verlag Konstanz, 1998; auch in Konstanzer Schriften für Mathematik und Informatik 87, 1999.
3. **Mihai Prunescu :***Defining constant polynomials.* Contemporary Mathematics 270, 139 - 145, 2000.
4. **Mihai Prunescu:**  *$P \neq NP$  for the reals with various analytic functions.* Journal of Complexity 17, 1, 17 - 26, 2001.
5. **Mihai Prunescu:** *Non-effective quantifier elimination.* Mathematical Logic Quarterly 47, (4), 557 - 561, 2001.
6. **Mihai Prunescu:** *An isomorphism between monoids of external embeddings - about definability in arithmetic.* Journal of Symbolic Logic 67, 2, 598 - 620; 2002.
7. **Mihai Prunescu:** *A model-theoretic proof for  $P \neq NP$  over all infinite abelian groups.* Journal of Symbolic Logic 67, 1, 235 - 238, 2002.
8. **Mihai Prunescu:** *Diophantine properties of finite commutative rings.* Archive for Mathematical Logic 42, 3, 293 - 302, 2003.
9. **Mihai Prunescu:**  *$P \neq NP$  for all infinite boolean algebras.* Mathematical Logic Quarterly 49, 2, 210 - 213, 2003.

10. **Mihai Prunescu:** *Symmetric subset-sum problem over the complex numbers.* Algorithmic Algebra and Logic. Proceedings of the A3L Conference in the Honour of the 60-th. Birthday of Volker Weispfenning, Passau, 2005. Editors: Dolzmann, Seidl, Sturm. ISBN: 3-8334-2669-1. 201 - 207, 2005.
11. **Mihai Prunescu:** *Two situations with unit-cost: ordered abelian semi-groups and some commutative rings.* Journal of Complexity, 21, 4, 579-592, 2005.
12. **Mihai Prunescu:** *Undecidable and decidable restrictions of Hilbert's Tenth Problem: images of polynomials vs. images of exponential functions.* Mathematical Logic Quarterly, 52, 1, 14 - 19, 2006.
13. **Mihai Prunescu:** *Structure with fast elimination of quantifiers.* The Journal of Symbolic Logic, 71, 1, 321 - 328, 2006.
14. **Mihai Prunescu:** *Fast elimination of quantifiers means  $P = NP$ .* Lecture Notes in Computer Science 3988, 459 - 471, 2006. Volume: "Logical Approaches to Computational Barriers"; Arnold Beckmann, Ulrich Berger, Benedikt Löwe, John V. Tucker editors.
15. **Mihai Prunescu:** *Concrete algebraic cohomology for the group  $(\mathbb{R}, +)$  or how to solve the functional equation  $f(x+y) - f(x) - f(y) = g(x, y)$ .* CUBO, a mathematical journal; 9, 3, 39 - 45, 2007.
16. **Mihai Prunescu:** *Symmetric functions over finite fields.* Preprint 2009.
17. **Mihai Prunescu:** *Undecidable properties of recurrent double sequences.* Notre Dame Journal of Formal Logic, 49, 2, 143 - 153, 2008.
18. **Mihai Prunescu:** *Self-similar carpets over finite fields.* European Journal of Combinatorics, 30, 4, 866 - 878, 2009.
19. **Mihai Prunescu:** *Recurrent double sequences that can be produced by context-free substitutions.* Fractals, 18, 1, 65 - 73, 2010.
20. **Mihai Prunescu:** *Recurrent double sequences generated by homomorphisms of finite abelian  $p$ -groups with periodic initial conditions.* Fractals, 19, 4, 431 - 442, 2011.
21. **Mihai Prunescu:** *The linear recurrent double sequences in  $M_2(\mathbb{F}_2)$  are classified according to their geometric content.* Symmetry, 3, 3, 402 - 442, 2011.
22. **Mihai Prunescu:** *The Thue-Morse-Pascal double sequence and similar structures.* Comptes Rendus - Mathématique 349, 939-942, 2011.
23. **Mihai Prunescu:**  *$\mathbb{F}_p$ -affine recurrent  $n$ -dimensional sequences over  $\mathbb{F}_q$  are  $p$ -automatic.* European Journal of Combinatorics, 34, 2, 260 - 284, 2013.

24. **Mihai Prunescu:** *A two-valued recurrent double sequence that is not automatic.* Preprint 2012. Revision 2013.
25. **Mihai Prunescu:** *Sign-reductions,  $p$ -adic valuations, binomial coefficients modulo  $p^k$  and triangular symmetries.* Preprint 2012. Revision 2013.