

CURRICULUM VITAE

PERSONAL DATA

Name	Toufik ZAIMI
Nationality	Algerian
Position	Professor
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EDUCATION

Year	Academic Degree	Institution
Habilitation in mathematics	2009	Contantine university --- Algeria
PHD-Doctorat	1994	Paris 6 university --- France
Master	1990	Limoges university --- France
Bachelor	1989	Houari Boumedienne University--- Algeria

WORK EXPERIENCE

Period	Position	Address
01/9/2014 - Now	Professor	Al-Imam Muhamed Ibn Saud Islamic University, Saudi-Arabia
2013-2014	Professor	University Larbi Ben Mhidi –Algeria
2008-2013	Associate Professor	University Larbi Ben Mhidi –Algeria
2006-2008	Assistant Professor	University Larbi Ben Mhidi –Algeria

RESEARCH INTERESTS

Number theory: Special algebraic numbers, Pisot numbers, Salem numbers.

PUBLICATIONS

- 1) Minoration d'un produit pondéré des conjugués d'un entier algébrique totalement réel, C. R. A. S. Paris 318, 1-4, 1994.
- 2) Minoration du diamètre d'un entier algébrique totalement réel, C. R. A. S. Paris 319, 417-419, 1994.
- 3) Sur les nombres Pisot relatifs, thèse de l'université Paris 6, 1994.
- 4) Sur les K-nombres de Pisot de petite mesure, Acta Arithmetica 77, 103-131, 1996.
- 5) Caractérisation d'un ensemble généralisant l'ensemble des nombres de Pisot, Acta Arithmetica 87, 141-144, 1998.
- 6) Sur la fermeture de l'ensemble des K-nombres de Pisot, Acta Arithmetica 83, 363-367, 1998.
- 7) Sur les nombres de Pisot totalement réels, Acta Arithmetica 5, 19-32, 1999.
- 8) On small Pisot numbers in a number field, Maghreb Math. Rev. 8, 163-167, 1999.
- 9) Note on totally real Pisot numbers in the successive derived sets of Pisot numbers, Arab J. Math. Sc. 6, 37-40, 2000.
- 10) Remarks on certain Salem numbers, Arab J. Math. Sc. 7, 1-10, 2001.
- 11) On an approximation property of Pisot numbers, Acta Mathematica Hungar. 96, 309-325, 2002.
- 12) On numbers which are differences of two conjugates over \mathbb{Q} of an algebraic integer, Bull. Austral. Math. Soc. 68, 233-242, 2003.
- 13) On the integer form of the additive Hilbert's Theorem 90, Linear Algebra and its Applications 390, 175-181, 2004.
- 14) On an approximation property of Pisot numbers II, Journal de Théorie des Nombres de Bordeaux 16, 239-249, 2004.
- 15) The cubics which are differences of two conjugates of an algebraic integer II, Journal de Théorie des Nombres de Bordeaux 17, 949-953, 2005.
- 16) On integer and fractional parts of powers of Salem numbers, Archiv Der Mathematik 87, 124-128, 2006.
- 17) An Arithmetical property of powers of Salem number, Journal of Number Theory 120, 179-191, 2006.
- 18) Approximation by polynomials with bounded coefficients, Journal of Number Theory 127, 103-117, 2007.
- 19) Une remarque sur le spectre des nombres de Pisot, Comptes Rendus Math. Acad. Sci. Paris 347, 5-8, 2009.

- 20) On epsilon-Pisot numbers, *New York Journal of Mathematics* 15, 415-422, 2009.
- 21) On numbers having finite beta-expansions, *Ergodic Theory and Dynamical Systems* 29, 1659-1668, 2009.
- 22) A property of the spectra of non-Pisot numbers, *Comptes Rendus Math. Acad. Sci. Paris* 348, 121-124, 2010.
- 23) Commentaires sur quelques résultats sur les nombres de Pisot, *Journal de Théorie des Nombres de Bordeaux* 22, 513-524, 2010.
- 24) On roots of polynomials with positive coefficients, *Publications de l'Institut Mathématiques* 89, 89-93, 2011.
- 25) On the spectra of Pisot numbers, *Glasg. Math. J.* 54, 127-132, 2012.
- 26) Comments on the distribution modulo one of powers of Pisot and Salem numbers, *Publ. Math. Debrecen* 80, 417-426, 2012.
- 27) On the distribution of certain Pisot numbers, *Indag. Math.* 23, 318-326, 2012.
- 28) Comments on the height reducing property (in collaboration with S. Akiyama), *Centr. Europ. Math. J.* 9, 1616-1627, 2013.
- 29) Comments on the height reducing property II (in collaboration with S. Akiyama and J. C. Thuswaldner), *Indag. Math.* 26(1), 28-39, 2015.
- 30) Characterization of the numbers which satisfy the height reducing property (in collaboration with S. Akiyama and J. C. Thuswaldner), *Indag. Math.* 26 (1), 24-27, 2015.
- 31) Complex Pisot numbers in algebraic number fields (in collaboration with M. J. Bertin), *C. R. Math.* 353 (11), 965-967, 2015.
- 32) Comments of the fractional parts of Pisot numbers (in collaboration with M. Selatnia and H. Zekraoui), *Archiv. Math. (Brno)*, 51, 153-161, 2015.
- 33) On number fields without unit primitive elements (in collaboration with M. J. Bertin and A. Aljouiee), *Bull. Austral. Math. Soc.* , 93, 420-432, 2016.
- 34) On the conjugates of certain algebraic integers, *Publications de l'institut mathématiques (Beograd)*, 99 (113), 281-285, 2016.
- 35) On real parts of powers of complex Pisot numbers, *Bull. Austral. Math. Soc.* , 94, 245-253, 2016.
- 36) A note on number fields having reciprocal integer generators, *Quest. mathematicae* 40(3), 2017, 391-394.
- 37) CM fields without unit-primitive elements (in collaboration with C. Greither), *Bull. Aust. Math. Soc.* 96 (3), 398-399, 2017.
- 38) CM fields with a reciprocal unit-primitive element (in collaboration with C. Greither), *C. R. Math.* 356 (1), 8-12, 2018.
- 39) On the distribution of powers of a Gaussian Pisot numbers, *Indag. Math.* 31, 177-183, 2020.
- 40) Salem numbers as Mahler measure of Gaussian Pisot numbers, *Acta Arith.* 194, 383-392, 2020.



- 41) A remark on an algorithm for testing Pisot polynomials, *Publ. Math. Debrecen* 96, 423-426, 2020.
- 42) Quartic Salem numbers which are Mahler measures of non-reciprocal 2- Pisot numbers, *J. Théor. Nombres Bordeaux* 32, No. 3, 877-889, 2020.
- 43) On Salem numbers which are Mahler measures of non-reciprocal 2- Pisot numbers, *Publ. Math. Debrecen* 98, No. 3-4, 467-474, 2021.
- 44) Comments on Salem polynomials, *Arch. Math.* 117, No. 1, 41-51, 2021.
- 45) On Salem half-norms , *Quaest. Mathematicae* 45, No. 1, 91- 99, 2022.
- 46) On the zeros of the derivatives of certain polynomials , *Moscow J. of combinatorics and Number theory*, 11, No. 3, 205-214, 2022.