

RESEARCH OUTPUT OF ADAM PARUSIŃSKI

Authors are listed in alphabetical order in all publications.

BOOKS

1. S. Guillermou, G. Lebeau, A. Parusiński, P. Schapira, J.-P. Schneiders *Subanalytic sheaves and Sobolev spaces*, SMF, Astérisque 383, 2016
2. M. Coste, T. Fukui, K. Kurdyka, A. Parusiński, L. Paunescu, *Arc Spaces and Additive Invariants in Real Algebraic Geometry*, SMF, Panoramas et Synthèses 24, 2007

REFEREED ARTICLES

3. S. McCallum, A. Parusiński, L. Paunescu, *Validity proof of Lazard's method for CAD construction*, to appear in Journal of Symbolic Computation
4. C. McCrory, A. Parusiński, L. Paunescu, *Algebraic Stratified General Position and Transversality*, to appear in J. of Algebraic Geometry
5. A. Parusiński, A. Rainer, *Optimal Sobolev regularity of roots of polynomials*, to appear in Annales. Ecole Norm. Sup.
6. M. Bilski, K. Kurdyka, A. Parusinski, G. Rond, *Higher order approximation of analytic sets by topologically equivalent algebraic sets*. Math. Zeitschrift, (2017)
<https://doi.org/10.1007/s00209-017-1937-5>
7. C. McCrory, A. Parusiński, *Real intersection homology*, in Real and Complex Singularities and their applications in Geometry and Topology, Topology and its Applications, Volume 234, 1 February 2018, Pages 108-129.
8. A. Parusiński, L. Păunescu, *Arcwise analytic stratification, Whitney fibering conjecture and Zariski equisingularity*, Advances in Math. 309 (2017), 254–305.
9. M. Bilski, A. Parusiński, G. Rond, *Local topological algebraicity of analytic function germs*. J. Algebraic Geom. 26 (2017), 177-197
10. A. Parusiński, A. Rainer, *Lifting differentiable curves from orbit spaces*. Transformation Groups, Vol. 21, No. 1, 2016, pp. 153-179
11. A. Parusiński, A. Rainer, *Regularity of roots of polynomials*. Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) Vol. XVI (2016), 481-517
12. A. Parusiński, A. Rainer, *A new proof of Bronshtein's theorem*, J. Hyperbolic Differ. Equation., Vol. 12, No. 4 (2015) 1-18
13. M. Bilski, A. Parusiński, *Approximation of holomorphic maps from Runge domains to affine algebraic varieties*, J. London Math. Soc. (2014) 90 (3), 807–826
14. A. Parusiński, J.-P. Rolin, *A Note on the Weierstrass Preparation Theorem in Quasianalytic Local Rings*, Canad. Math. Bull. 57 (2014), no. 3, 614–620.
15. C. McCrory, A. Parusiński, *The weight filtration for real algebraic varieties II: Classical homology*, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. (volume in honor of H. Hironaka), (2014) 108, 63–94

16. S. Koike, A. Parusiński, *Equivalence relations for two variable real analytic function germs*, J. Math. Soc. Japan Volume 65, Number 1 (2013), 237-276
17. A. Parusiński, G. Rond, *The Abhyankar-Jung Theorem*, Journal of Algebra 365 (2012) 29-41
18. K. Kurdyka, A. Parusiński, *On the non-analyticity locus of an arc-analytic function*, J. Algebraic Geom. 21 (2012), 61-75
19. C. McCrory, A. Parusiński, *The weight filtration for real algebraic varieties*, MSRI Publications, **18** "Topology of Stratified Spaces" (2011), 121-160
20. S. Koike, A. Parusiński, *Some questions on the Fukui numerical set for complex analytic function germs*, Demonstratio Mathematica, **43**, 2 (2010), 285-302
21. S. Koike, A. Parusiński, *Blow-analytic equivalence of two variable real analytic function germs*, J. Algebraic Geometry, **19**, 3 (2010), 439-472
22. A. Parusiński, *A criterion for topological equivalence of two variable complex analytic function germs*, Proc. Japan Acad. Ser. A Math. Sci. Volume **84**, Number 8 (2008), 147-150.
23. A. Parusiński, *Characteristic Classes of Singular Varieties*, Proceedings of 12th MSJ-IRI symposium "Singularity theory and its applications". Advanced Studies in Pure Mathematics 43, 2006, 347-368
24. K. Kurdyka, A. Parusiński, *Quasi-convex Decomposition in o-Minimal Structures. Application to the Gradient Conjecture*, Proceedings of 12th MSJ-IRI symposium "Singularity theory and its applications". Advanced Studies in Pure Mathematics 43, 2006, 137-178
25. A. Parusiński, *Bi-Lipschitz trivialization of the distance function to a stratum of a stratification*, Dans le numéro special de Annales Mathematici Polonici dédié à la mémoire de Professor Stanisław Łojasiewicz, **87** (2005), 213-218
26. A. Parusiński, *Integrability of some functions on semi-analytic sets* in Singularités franco-japonaises, Brasselet, Suwa eds., Séminaires et Congrès **10**, SMF 2005, 243-254
27. T.-C. Kuo, A. Parusiński, *Newton-Puiseux Roots of Jacobian Determinants*, Journal of Alg. Geom., **13** (2004), 570-601.
28. A. Parusiński, *Topology of injective endomorphisms of real algebraic sets*, Math. Annalen, **328** (2004), 353-372.
29. J.-P. Henry, A. Parusiński, *Invariants of bi-Lipschitz equivalence of real analytic functions*, in Geometric Singularity Theory, Banach Center Publications **65**, PWN, Warszawa 2004, 67-75
30. S. Koike, A. Parusiński, *Motivic-type Invariants of Blow-analytic Equivalence*, Annales Institut Fourier **53**, 7 (2003), 2061-2104.
31. J.-P. Henry, A. Parusiński, *Existence of Moduli for bi-Lipschitz equivalence of analytic functions*, Compositio Math. **136** (2003), 217-235.
32. C. McCrory, A. Parusiński, *Virtual Betti numbers of real algebraic varieties*, C.R.A.S. Ser. I **336** (2003), 763-768.
33. T.-C. Kuo, A. Parusiński, *On Puiseux Roots of Jacobians*, Proc. Japan Acad., **78**, Ser. A (2002), 55-59.

34. A. Parusiński, *On the preparation theorem for subanalytic functions*, in *New Developments in Singularity Theory*, Cambridge 2000, eds. Siersma, Wall, Zakalyukin, Kluwer Academic Publishers (2001), 193–215
35. A. Parusiński, P. Pragacz, *Characteristic Classes of Hypersurfaces and Characteristic Cycles*, *Journal of Alg. Geom.* **10** (2001), 63–79
36. K. Kurdyka, T. Mostowski, A. Parusiński, *Proof of Gradient Conjecture of R. Thom*, *Annals of Math.* **152**, 3 (2000), 763–792
37. C. McCrory, A. Parusiński, *Topology of real algebraic sets of dimension 4: necessary conditions*, *Topology* **39** (2000), 495–523
38. T.-C. Kuo, A. Parusiński, *Newton Polygon relative to an arc*, in *Real and Complex Singularities (São Carlos, 1998)*, Chapman & Hall Res. Notes Math., **412**, Chapman & Hall/CRC 2000, 76–93
39. J. Gwoździwicz, K. Kurdyka et A. Parusiński, *On the number of solution of an algebraic equation on the curve $y = e^x + \sin x$, $x > 0$ and a consequence for O -minimal structures*, *Proc. Amer. Math. Soc.* **127**, 4 (1999), 1057-1064
40. A. Parusiński, *Topological Triviality of μ -constant Deformations of Type $f(x) + tg(x)$* , *Bull. Lond. Math. Soc.* **31** (1999), 686–692
41. A. Parusiński, *Blow-Analytic Retraction onto the Central Fibre*, in *Real analytic and algebraic singularities*, Proceedings of the Kuo Symposium, eds. Fukuda et al. Pitman Research Notes in Mathematics **381**, Longman 1998, 43–61
42. A. Parusiński, Z. Szafraniec, *On the Euler Characteristic of Fibres of Real Polynomial Maps*, in *Singularities Symposium - Łojasiewicz 70*, Banach Center Publications **44**, PWN, Warszawa 1998, 175-182
43. A. Parusiński, Z. Szafraniec, *Algebraically Constructible Functions and Signs of Polynomials*, *Manuscripta Math.* **93** (1997), 443–456
44. C. McCrory, A. Parusiński, *Algebraically Constructible Functions*, *Annales Sci. Éc. Norm. Sup.* **30**, 4 (1997), 527–552
45. C. McCrory, A. Parusiński, *Complex monodromy and the topology of real algebraic sets*, *Compositio Math.* **106** (1997), 211–233.
46. A. Parusiński *A note on singularities at infinity of complex polynomials*, in *Symplectic singularities and geometry of gauge fields*, Banach Center Publications **39**, PWN, Warszawa 1997, 131–141
47. A. Parusiński, Piotr Pragacz *Chern-Schwartz-MacPherson classes and the Euler characteristic of degeneracy loci and special divisors*, *Journal Amer. Math. Soc.* **8**, 4 (1995), 793–817
48. A. Parusiński, Piotr Pragacz *A formula for the Euler characteristic of singular hypersurfaces*, *Journal of Alg. Geom.* **4**, 2 (1995), 337–352.
49. A. Parusiński, *On the bifurcation set of a complex polynomial with isolated singularities at infinity*, *Compositio Math.* **97**, 3 (1995), 369–384

50. A. Parusiński, *Lipschitz stratification of subanalytic sets*, Annales Sci. Éc. Norm. Sup. **27**, 6 (1994), 661–696
51. A. Parusiński, *Subanalytic functions*, Trans. Amer. Math. Soc. **344**, 2 (1994), 583–595
52. K. Kurdyka, A. Parusiński, *W_f -stratification of subanalytic functions and Łojasiewicz Inequality*, Compt. Rend. Acad. Sci. Paris, Série I **318**, 2 (1994), 129–134
53. A. Parusiński, *Limits of tangent spaces to fibres and the w_f condition*, Duke Math. Jour. **72**, 1 (1993), 99–109
54. A. Parusiński, *Lipschitz stratification a review of results*, in Global Analysis in Modern Mathematics, Proceedings Of A Symposium In Honor Of Richard Palais' Sixtieth Birthday, K. Uhlenbeck ed., Publish or Perish, Houston 1993, 73–91
55. A. Parusiński, *Constructibility of the set of points where complex analytic morphism is open*, Proc. Amer. Math. Soc. **117**, 1 (1993), 205–211
56. A. Parusiński, P. Pragacz, *Characteristic numbers of degeneracy loci*, in Enumerative Algebraic Geometry (S. L. Kleiman, A. Thorup eds), Proceedings of the 1989 Zeuthen Symposium, Contemporary Mathematics **123**, Amer. Math. Soc., Providence 1991, 189–198
57. E. Bierstone, P. Milman & A. Parusiński, *A function which is arc analytic but not continuous*, Proc. Amer. Math. Soc. **113**, 2 (1991), 419–424.
58. A. Parusiński, *Multiplicity of the dual variety*, Bull. Lond. Math. Soc. **23** (1991), 429–436.
59. A. Parusiński, *Gradient Homotopies of gradient vector fields*, Studia Math. **XCVI** (1990), 73–80
60. A. Parusiński, *A generalization of the Milnor number*, Math. Ann. **281** (1988), 247–254
61. A. Parusiński, *Regular projection for sub-analytic sets*, C. R. Acad. Sci. Paris, Série I **307**, (1988), 343–347.
62. A. Parusiński, *Lipschitz properties of semi-analytic sets*, Ann. Inst. Fourier (Grenoble) **38**, (1988), 189–213.
63. A. Parusiński, *Lipschitz stratification of real analytic sets*, in Singularities (S. Łojasiewicz ed.), Banach Center Publications **XX**, PWN, Warszawa 1988, 323–333.
64. W. Marzantowicz, A. Parusiński, *Periodic Solutions Near an Equilibrium of a Differential Equation with a First Integral*, Rend. Sem. Mat. Univ. Padova **77**, 1987, 193–206.
65. A. Parusiński, *Algebraic equisingularity and Whitney's conditions*, Bull. Pol. Acad. Sc. **33** (5–6), 1985, 247–253.

PREPRINTS

66. M. Bruveris, P. W. Michor, A. Parusiński, A. Rainer, *Moser's theorem on manifolds with corners*, arXiv:1604.07787
67. E. Bierstone, A. Parusiński, *Global smoothing of a subanalytic set*, arXiv:1705.06331
68. A. Parusiński, A. Rainer, *Selections of bounded variation for radicals of smooth functions*, arXiv:1705.10492