

CURRICULUM VITAE

NAME: DOUGLAS CENZER

PRESENT POSITION: Professor

ADDRESS

Department of Mathematics
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Gainesville, FL 32611
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EDUCATION

University of Michigan, Ph.D., Mathematics, 1972 (NSF Graduate Fellow)
Michigan State University, B.S., Mathematics, 1968 (Ford Motor Co. Fund Scholar)

PROFESSIONAL EXPERIENCE

Professor of Mathematics, University of Florida, 1987–
Visiting Scholar, University of California at San Diego, 2002
Member, Math. Sciences Research Institute, Berkeley, 1989-1990
Visiting Professor, University of Michigan, Summer 1989,1998,2000,2005
Associate Professor Mathematics, University of Florida, 1977-1987
Visiting Associate Professor, North Texas State University, 1981-1982
Assistant Professor Mathematics, University of Florida, 1972-1977
NSF Graduate Fellow, University of Michigan, 1968-1972
Research Assistant, National Security Administration, 1967
Visiting Fellow, Newton Institute, Cambridge, 2012

AWARDS

Anderson Scholar, CLAS, 1995, 1999, 2000, 2005, 2007
Exemplary Mentor Award from SEAGEP (Southeastern Alliance for Graduate Education and the Professoriate), 2006.
STEP (Sustained Performance Award), University of Florida, 2001
CLAS Bonus Award, University of Florida 1997
TIP Teaching Award, University of Florida, 1998

GRANTS

NSF Computability in Europe 2011 (Conference Grant), PI \$20, 000

NSF Focused Research Group, PI, \$580,000 (\$65,000 UF), 2007-2011, (NSF DMS 0652732)
NSF Collaboration in Computability (Binational Travel Grant with Russia and Kazakhstan,
co-PI (Julia Knight, Notre Dame PI), 2000-2004 (\$30,000);
renewed for 2006-2009 (\$75,000);
renewed for 2011-2014 (\$75,000)
Effectively Closed Sets, UF Faculty Enhancement Opportunity, PI, \$22,824, 2010-2011.
NSF Special Year in Logic Award, co-PI, 2005-2008 \$138,000 (NSF DMS 0532644)

LISTINGS

American Men and Women of Science
Who's Who in America;
Who's Who in Frontier Science; Who's Who in American Teachers

ORGANIZATIONS

Association for Symbolic Logic, Chair, Membership Committee, 2001-2007
Phi Beta Kappa, Chapter President, 1994
CCA (Network for Computability and Complexity in Analysis
CiE (Association for Computability in Europe)
American Mathematical Society; Pi Mu Epsilon;

EDITORIAL ACTIVITIES

Archive for Mathematical Logic (Springer-Verlag) Editorial Board, 2002-
Edited special issue of Annals of Pure and Applied Logic, vol. 93 (1998). Referee for
numerous journals, including Amer. Math. Monthly, Ann. Pure and Appl. Logic, Trans.
Amer. Math. Soc., J. Math. Logic Bull. Symbolic Logic, Contemporary Math., Theor.
Comp. Science, J. Logic and Computation, Math. Logic Quarterly,

CONFERENCES ORGANIZED

1. Program Committee for CIE 2012 (Cambridge).
2. Organizing Special Session at AMS Regional Meeting in Washington, D.C., March 2012
3. Organizing Committee and also Chair of Special Session on Classical Computability Theory at CIE 2011 (Sofia).
4. Organizing Committee, 5th Conference on Logic, Computability and Randomness, Notre Dame, May 24-28, 2010, with support from National Science Foundation.
5. Program Committee, Seventh International Conference on Computability and Complexity in Analysis, Zhenjiang, China, June 21-25, 2010.

6. Co-organized SEALS 2010, February 2010.
7. Organized Summer School in Algorithmic Randomness, Gainesville, June 2008.
8. Program Committee, Computability and Complexity in Analysis (CCA 2007), Siena, Italy, June 2007
9. Local Organizing Committee, Association for Symbolic Logic, Annual Meeting, March 2007.
10. Co-organized Workshop on Model Theory and Computable Model Theory, Gainesville, February 2006
11. Organized Computability and Complexity in Analysis (CCA 2006), Gainesville, November 2006
12. Co-organized SEALS 2006, Gainesville, April 2006
13. Co-organized SEALS 2005, Gainesville, April 2005
14. Co-organized SEALS (SouthEAsTern Logic Symposium) 2004, Gainesville, March 2004
15. Program Committee for Computability and Complexity in Analysis (CCA 2004), Cincinnati, August 2003
16. Organized AMS Special Session Computability and Models, Annual Meeting, Baltimore, January 2003
17. Organized AMS Special Session on Computability Theory, Annual Meeting, San Diego, January 2002
18. Organized AMS Special Session on Computability Theory, Gainesville, Florida, March 1999
19. Organized AMS Special Session on Recursive and Feasible Mathematics, Orlando, Florida, January 1996
20. Local Organizing Committee, ASL Annual Meeting, Gainesville, Spring 1994

OTHER PROFESSIONAL ACTIVITIES

Reviewer for National Science Foundation

External reference for hiring, tenure and promotion at U. Michigan, George Washington U., Kenyon, National U. Australia, U. West Florida, Kenyon College, Auckland U. (New Zealand).

THESES AND DISSERTATIONS DIRECTED

Paul Brodhead, 2008 Ph.D. Dissertation “Computable Aspects of Closed Sets”, currently at the University of Hawaii

S. Ali Dashti, 2008 Ph.D. Dissertation “Effective Symbolic Dynamics”, currently an adjunct at the University of Florida

Zia Uddin, 2004 Ph.D. Dissertation “Structures Subject to Space Complexity”, currently at University of Wisconsin–Platteville

Farzan Riazati, 2001 Ph.D. Dissertation “On the Lattice of Π_1^0 Classes”, currently at Santa Fe Community College

Amy Vanderbilt, 2000 Ph.D. Dissertation “Common Derivations in Locally Determined Non-monotonic Rule Systems and their Complexity”- Dissertation Fellowship Spring 2000; currently Chief Technical Officer, WAVE Technologies

William Moser, 1996 Ph.D. Dissertation “Approximation Methods in Inductive Inference, currently at Metawave Corporation, Seattle, Washington

Marc Betinsky, 1995 Senior Honors Thesis “Implications and Explorations of the Wronskian” - Undergraduate Research Symposium winner 1995

UNIVERSITY SERVICE

Faculty Senate Nominating Committee, 2005-2007

Committee on Academic Freedom, Tenure, Professional Relations and Standards, 2004-2007

Council on Academic Freedom, Faculty Quality and Faculty Welfare, 2004-2007

CLAS Tenure and Promotion Committee, 2007–2009

DEPARTMENT SERVICE

Tenure and Promotion Committee, 1980-88, Chair 1983-85, 1987-88, 1993-present

Library Committee, Chair, 1975-present

Hiring Plan Committee, 2004-present

Steering Committee, 1983-85, 1986-88, 1998-200

Mentor for J. Zapletal, 2001-2005

Computer Committee, 1980-1985

Undergraduate Committee, 1990-91

Logic Ph.D. Exam Committee, 1986-present, frequently Chair

Ad Hoc Committee on Chair Renewal, 1990

Long Prize Committee, 1993-94

SPEP Committee (Chair), 1998

Bonus Pay Committee(Chair) 1999

LECTURES

“Random Sets”, Recursion Theory Workshop, Computational Prospects for Infinity, National University of Singapore, August 2011

“Effective Categoricity of Injection Structures”, CiE 2011, Bulgaria, June 2011
 “Effective Workshop on Computability (Annual ASL meeting), March 2011
 “Well-founded Semantics and the Cantor-Bendixson Derivative”, NonMon30, Lexington, Kentucky, October 2010.
 “Randomness and Capacity”, Computability and Complexity in Analysis (CCA 2010), July 2010, China.
 “Effective Randomness and Capacity”, Algorithmic Randomness Conference, Notre Dame, May 2010.
 “Proof-Theoretic Strength of the Stable Marriage Problem”, Reverse Mathematics Workshop, University of Chicago, November 2009.
 “Effective Symbolic Dynamics”, Colloquium Talk, College of Charleston, October 2009.
 “Algorithmic Randomness”, Pi Mu Epsilon Talk, University of Florida, September 2009.
 3 talks at Computability in Europe (CIE 2009), Heidelberg, July 2009:
 “ Σ_1^0 and Π_1^0 Equivalence Structures”,
 “Immunity of Closed Sets”,
 “Effective randomness and Capacity of Closed Sets”.
 “Random Union, Intersection and Membership”, Fourth International Conference on Algorithmic Randomness, Luminy, France, June 2009
 “ μ -randomness of Closed Sets and Elements”, Algorithmic Randomness Workshop, Madison, Wisconsin, May 2009.
 “Structures in the Difference Hierarchy”, Logic Seminar, Notre Dame University, April 2009.
 “Randomness and Capacity”, Informal Random Gathering, UC Berkeley, March 2009.
 “Countable Subshifts”, AMS Special Session on Computable Dynamics, January 2009.
 “Complexity Theory in Algebra and Combinatorics”, Computability, Reverse Mathematics and Combinatorics, Banff Research Station, December 2008
 “Computability of Equivalence Structures”, Logic Seminar, Nanyang Technical University, Singapore, May 2008
 “Algorithmic Randomness”, Colloquium Talk, College of Charleston, April 2008
 “The Cantor-Bendixson Derivative and the Well-founded Semantics of Logic Programming”, Tenth International Symposium on Artificial Intelligence and Mathematics, Fort Lauderdale, January 2008.
 “Algorithmic Randomness and Capacity”, AMS-NZMS Joint Meeting Special Session on Computability Theory, December 2007
 “Algorithmic Methods for Equivalence Relations”, AMS Special Session on Algorithmic Methods for Algebraic Structures, Murfreesboro, Tennessee, November 2007
 “Random Closed Sets and Continuous Functions”, Workshop on Effective Randomness, Chicago, September 2007
 “Effective Symbolic Dynamics”, CCA 2007 (Computability and Complexity in Analysis), Siena, July 2007

CIE 2007 (Computability in Europe), Siena, July 2007, two talks:
K-Trivial Closed Sets and Continuous Functions
Pseudojump Operators and Π_1^0 Classes.

“Random Closed Sets and Continuous Functions”, Special Session on Computability, AMS Regional Meeting, Storrs, November 2006.

“Random Closed Sets and Continuous Functions”, American Institute of Mathematics workshop on algorithmic randomness, August 2006

Computability in Europe, Swansea, July 2006 (two talks):
“Random Closed Sets”,
“Space Complexity of Structures”,
“Effectively Closed Sets”, ASL Winter Meeting, January 2006, invited hour talk
“Complexity of Inductive Definability”, Computability in Europe, Amsterdam, June 2005.
“Reverse Mathematics and the Stable Marriage Problem”, Special Session on Reverse Mathematics, AMS Annual Meeting, Atlanta, January 2005.
“Logic Programming and Computability”, Special Session on Computability Theory and Applications, AMS Regional Meeting, Chicago, October 2004.
“Logic programming with infinite sets”, 8th International Symposium on Artificial Intelligence and Mathematics, Fort Lauderdale, January 2004
“Index Sets for Computable Differential Equations”, International Conference on Computability and Complexity in Analysis, Cincinnati, August 2003
“ Well-ordered intervals in the lattice of Π_1^0 classes”, Workshop on Computability and Logic, Heidelberg, June 2003
“Effectively Closed Sets”, Colloquium Talk, East Carolina University, March 2003
“Categoricity of Equivalence Structures”, Special Session on “Computability and Models”, Annual AMS Meeting, Baltimore, January 2003
“ Δ_2^0 -categoricity of p -groups”, Special Session on “Effectiveness Questions in Model Theory”, AMS Sectional Meeting, Madison, Wisconsin, October 2002.
”On the Lattice of Π_1^0 Classes”, Logic Seminar – University of Michigan, May 2002.
“Minimal and Thin Extensions of Π_1^0 Classes”, Special Session on Computability Theory with Applications, Annual AMS Meeting, San Diego, January 2002.
“Index Sets for ω -languages”, Workshop on Computability and Complexity in Analysis, Schloss Dagstuhl, Germany, November, 2001.
“Degrees of Difficulty of Π_1^0 Classes”, ASL Special Session on Reverse Mathematics, Annual Meeting of the Association for Symbolic Logic, Philadelphia, March 2001
“The lattice of Π_1^0 classes”, Computability Theory Meeting. Oberwolfach, January 2001
“Locally Determined Nonmonotonic Rule Systems”, Colloquium, UC San Diego, May 11, 2000.
“The Lattice of Π_1^0 Classes”, ASL Special Session on Computable Model Theory, Winter Meeting of Association for Symbolic Logic, Washington, January 23, 2000.

POSTDOCS SUPERVISED

Rebecca Weber, Fall 2006 (Assistant Professor, Dartmouth)

George Barmpalias, Fall 2006 (Postdoctoral Fellow, Leeds)

PUBLICATIONS

96. (with J. Remmel) Effectively Closed Sets (Π_1^0 Classes), draft of 250 pages, to be published by ASL Lecture Notes in Logic.
95. (with V. Harizanov and J. Remmel) Effective categoricity of injection structures, CiE 2011, Springer Lecture Notes in Computer Science (2011), 51-60.
94. (with V. Harizanov and J. Remmel) Σ_1^0 and Π_1^0 structures, Annals of Pure and Applied Logic 162 (2011), 490-503.
93. (with J. Franklin, Jiang Lu and Guohua Wu) A superhigh diamond in the c.e. tt -degrees, Arch. Math. Logic 50 (2011), 33-44.
92. (with J.B. Remmel) A connection between the Cantor-Bendixson derivative and the well-founded semantics of finite logic programs, Nonmon@30 (30 Years of Nonmonotonic Reasoning), Lexington, Kentucky, October 2010, URL: <http://www.cs.uky.edu/~marek/nonmonat30.dir/cenzerRemmel.pdf>
91. (with A. Dashti, F. Toska and S. Wyman) Computability of countable subshifts, in *Programs, Proofs and Processes, CIE 2010*, eds. F. Ferreira et al. Springer Lecture Notes in Computer Science 6158 (2010) 88-97.
90. (with Paul Brodhead) Effective capacity and randomness of closed sets, in *Computability and Complexity in Analysis, CCA 2010*, eds. X. Zheng and N. Zhong, Springer Electronic Proceedings in Theoretical Computer Science 24 (2010), 67-76.
89. (with G. LaForte and J. Remmel) Equivalence structures and isomorphisms in the difference hierarchy, J. Symbolic Logic 74 (2009), 535-556.
88. (with G. Laforte and G. Wu) Pseudojumps and Π_1^0 Classes, J. Logic and Computation 19 (2009), 77-87.
87. (with G. Barmpalias, J. Remmel and R. Weber) K -triviality of closed sets and continuous functions, J. Logic and Computation 19 (2009), 3-16.
86. (with T. Kihara, R. Weber and G. Wu) Immunity and non-cupping for closed sets, Tbilisi Math. Journal 2 (2009), 79-96.
85. (with R. Downey, J. Remmel and Z. Uddin), Space Complexity of Abelian Groups, Archive for Math. Logic 48 (2009), 63-76.
84. (Editor, with Valentina Harizanov, David Marker and Carol Wood) Proceedings of the Model Theory and Computable Model Theory Workshop, Gainesville, February 2007, Archive for Math. Logic 48 (2009), 1-6.
83. (with W. Calvert, V. Harizanov and A. Morozov) Effective categoricity of Abelian p -groups, Ann. Pure and Applied Logic 59 (2009), 187-197.
82. (with B. Csima and B. Khoussainov) Linear orders with distinguished function symbols, Archive for Math. Logic 48 (2009), 115-140.

81. (with V. Harizanov and J.B. Remmel) Σ_1^0 and Π_1^0 equivalence structures, in *CIE 2009*, K. Ambos-Spies, B. Lowe and W. Merkle (eds.) Springer Lecture Notes in Computer Science 5635 (2009), 99-108.
80. (with R. Weber and G. Wu) Immunity of closed sets, Springer Lecture Notes in Computer Science, in *CIE 2009*, K. Ambos-Spies, B. Lowe and W. Merkle (eds.) Springer Lecture Notes in Computer Science 5635 (2009), 109-117.
79. (with J. Franklin, Jiang Lu and Guohua Wu) Embedding the diamond lattice in the c.e. tt-degrees with superhigh atoms, TAMC 2009 (Theory and Applications of Models of Computation), J. Chen and S.B. Cooper (Eds.), Springer Lecture Notes in Computer Science 5532 (2009), 420-429.
78. (with S. Ali Dashti and Jonathan L.F. King) Computable Symbolic Dynamics, Math. Logic Quarterly 54 (2008), 524-533.
77. (with P. Brodhead, Enumerations of Π_1^0 classes, Archive for Mathematical Logic 45 (2008), 565-582.
76. (with Peter Hinman) Degrees of difficulty of generalized r.e. separating classes, Archive for Mathematical Logic 45 (2008), 629-647.
75. (with J.B. Remmel) A connection between Cantor-Bendixson derivatives and the well-founded semantics of logic programs, ISAIM 2008, The Tenth International Symposium on Artificial Intelligence and Mathematics (2008).
URL <http://isaim2008.unl.edu/index.php?page=proceedings>
74. (with Rebecca Weber) Preface to Special Issue of Archive for Math. Logic (Proceedings of CCA 2006) 45 (2008), 529-531.
73. (with G. Barmpalias, P. Brodhead, J. Remmel and R. Weber) Algorithmic randomness of continuous functions, Archive for Mathematical Logic 45 (2008), 533-546.
72. (with S. Ali Dashti and Jonathan L.F. King) Effective Symbolic Dynamics, *CCA 2007 (Computability and Complexity in Analysis, Siena, June 2007)*, Eds. R. Dillhage, T. Grubb, A. Sorbi, K. Weihrauch and N. Zhong, Springer Electronic Notes in Computer Science 202 (2008), 89-99.
71. (with G. Barmpalias, P. Brodhead, A. Dashti and R. Weber) Algorithmic randomness of closed sets, Journal for Logic and Computation 17 (2007), 1041-1062.
70. (with George Barmpalias, Jeffrey Remmel and Rebecca Weber) K -trivial closed sets and continuous functions, in *Computation and Logic in the Real World – Proceedings CIE 2007*, Editors S.B. Cooper, B. Loewe and A. Sorbi, Springer Lecture Notes in Computer Science 4497 (2007), 135-145.
69. (with G. Laforte, and G. Wu) Pseudojump operators and Π_1^0 classes, in *Computation and Logic in the Real World – Proceedings CIE 2007*, Editors S.B. Cooper, B. Loewe and A. Sorbi, Springer Lecture Notes in Computer Science 4497 (2007), 146-151.
68. (Editor, with R. Dillhage, T. Grubb and K. Weihrauch) Third International Conference on Computability and Complexity in Analysis, Information Berichte, FernUniversität (2006), 366 pages, and Springer Electronic Notes in Computer Science 167 (2007).

67. (with Peter Hinman) Medvedev degrees of generalized r.e. separating classes, Proc. CCA 2006, D. Cenzer, R. Dillhage, T. Grubb and Klaus Weihrauch (eds.): Third International Conference on Computability and Complexity in Analysis, Information Berichte, FernUniversität (2006), 125-142, and Springer Electronic Notes in Computer Science 167 (2007).
66. (with Paul Brodhead and Jeffrey Remmel) Random continuous functions, Proc. CCA 2006, D. Cenzer, R. Dillhage, T. Grubb and Klaus Weihrauch (eds.): Third International Conference on Computability and Complexity in Analysis, Information Berichte, FernUniversität (2006), 76-89, and Springer Electronic Notes in Computer Science 167 (2007).
65. (with J. Remmel) On the complexity of inductive definitions, Mathematical Structures in Computer Science 16 (2006), 763-788.
64. (with Zia Uddin) Space complexity of structures, in Logical Approaches to Computational Barriers, Proc. CIE 2006, A. Beckmann, U. Berger, B. Loewe, and J.Tucker (eds.): Springer Lecture Notes in Computer Science, Vol. 3988 (2006), 76-85.
63. (with P. Brodhead and S. Dashti) Random closed sets, in Logical Approaches to Computational Barriers, Proc. CIE 2006, A. Beckmann, U. Berger, B. Loewe, and J.Tucker (eds.): Springer Lecture Notes in Computer Science, Vol. 3988 (2006), 55-64.
62. (with W. Calvert, V. Harizanov and A. Morozov) Δ_2^0 -categoricity of Equivalence Structures, Annals of Pure and Applied Logic 141 (2006), 61-78.
61. Decidability, completeness and complexity, Journal of Symbolic Logic 71 (2006), 399-424.
60. (with J. Remmel) The complexity of inductive definability, in *New Computational Paradigms*, eds. S. Cooper, B. Loewe and L. Torenvliet, Springer-Verlag Lecture Notes in Computer Science vol. 3526 (2005), 75-85.
59. (with F. Riazati) Minimal extensions of Π_1^0 classes, Mathematical Logic Quarterly 51 (2005), 206-216.
58. (with W. Marek and J. Remmel) Logic programming with infinite sets, Annals of Artificial Intelligence and Mathematics 44 (2005), 309-339.
57. (with J. Remmel) Proof-Theoretic Strength of the Stable Marriage Theorem and Other Problems, in "Reverse Mathematics 2001", edited by S. Simpson, ASL Lecture Notes in Logic vol. 21, A.K. Peters (2005), 67-103.
56. (with J. Remmel) Index sets for computable differential equations, pages, Math. Logic Quarterly 50 (2004), 329-344.
55. (with J. Remmel and A. Vanderbilt) Locally Determined Logic Programs and Recursive Stable Models, Annals of Mathematics and Artificial Intelligence 40 (2004), 225-262.
54. (with A. Nies) Global properties of the lattice of Π_1^0 classes, Proceedings Amer. Math. Society 132 (2004), 239-249.
53. (with W. Marek and J. Remmel) Using logic programs to reason about infinite sets, 8th International Symposium on Artificial Intelligence and Mathematics (2004), <http://rutcor.rutgers.edu/~amai/aimath04>.

52. (with J. Remmel) Index sets for computable real functions, Proceedings of Computability and Complexity in Analysis, Cincinnati, 2003, Information Berichte 302, FernUniversität in Hagen (2003), 163–182.
51. (with P. Hinman) The Medvedev Lattice of Π_1^0 classes, Archive for Mathematical Logic 42 (2003), 583-600.
50. (with J. Remmel) Index sets in ω -languages, Mathematical Logic Quarterly 49 (2003), 22–33.
49. (with J. Remmel) Effectively closed sets and graphs of computable real functions, Theoretical Computer Science 284 (2002), pp. 279–318.
48. (with A. Vanderbilt) Common Derivations in Locally Determined Logic Programs, conference paper, 7th International Symposium on AI and Mathematics, December 2001, URL: <<http://rutcor.rutgers.edu/~amai/aimath02>>.
47. (with A. Nies) Initial segments of the lattice of Π_1^0 Classes, Journal of Symbolic Logic 66 (2001), 1749–1765.
46. (with C. Jockusch) Π_1^0 Classes – Structure and Applications, in *Computability Theory and Its Applications*, eds. P. Cholak, S. Lempp, M. Lerman and R. Shore, Contemporary Mathematics 257, American Mathematical Society (2000), 39–59.
45. (with J. Remmel and A. Vanderbilt) The complexity of the set of the extensions of nonmonotonic rule systems, “Artificial Intelligence and Mathematics” conference paper, Fort Lauderdale, January 2000, <<http://rutcor.rutgers.edu/~amai/aimath00>>.
44. (with J. Remmel and A. Vanderbilt) Locally Determined Logic Programs, “Logic Programming and Nonmonotonic Reasoning, El Paso, December 1999”, eds. M. Gelfond, N. Leone and G. Pfeifer, Springer Lectures Notes in Artificial Intelligence 1730 (1999), 34-48.
43. (with J. Remmel) Polynomial time versus computable Boolean algebras, in “Recursion Theory and Complexity” (Proc. 1997 Kazan Workshop) eds. M. Arslanov and S. Lempp, de Gruyter (1999), pp. 15–53.
42. Π_1^0 Classes in Computability Theory, in Handbook of Computability (ed. E. Griffor), North-Holland Studies in Logic 140 (1999), pp. 37–85.
41. (with V. Marek and J. Remmel) Index Sets for Finite Predicate Logic Programs, FLOC '99 Workshop on “Complexity-theoretic and Recursion-theoretic methods in Databases, Artificial Intelligence and Finite Model Theory” (1999), pp. 72-80.
40. (with J. Remmel) Index Sets in Computable Analysis, Theoretical Computer Science 219 (Special Issue for 1997 Dagstuhl meeting on Computability and Complexity in Analysis) (1999), pp. 111-150.
39. (with J. Remmel) Feasible graphs with standard universe, Proceedings Recursion Theory Week, Oberwolfach 1996, Annals of Pure and Applied Logic 94 (1998), pp. 21-35.
38. (with J. Remmel) Index sets for Π_1^0 classes, Proceeding of AMS Special Session, Orlando 1996, Annals of Pure and Applied Logic 93 (1998), pp. 3-61.
37. (with J. Remmel) Π_1^0 Classes in Mathematics, “Handbook of Recursive Mathematics, Vol. 2” (eds. Y. Ersov, S. Goncharov, W. Marek, A. Nerode, J. Remmel), North-Holland Studies in Logic 139 (1998), pp. 623-821.

36. (with J. Remmel) Complexity theoretic model theory and algebra, "Handbook of Recursive Mathematics, Vol. 1" (eds. Y. Ersov, S. Goncharov, W. Marek, A. Nerode, J. Remmel), North-Holland Studies in Logic 138 (1998), pp. 381–513.
35. (Editor, with J. Remmel) Proceedings of AMS Special Session (Orlando 1996), Annals of Pure and Applied Logic 93 (1998), pp. 1-2.
34. (with W. Moser) A Good Oracle is Hard to Beat, Algorithmica 22 (1998), pp. 18-34.
33. (with J. Remmel) Complexity and Categoricity, Information and Computation 140 (1998), 2-25.
32. (with J. Remmel) Feasibly categorical Abelian groups, in "Proc. Feasible Math II" (eds. P. Clote and J. Remmel), Birkhauser (1995), 91-153.
31. (with J. Remmel) Feasibly Categorical Models, in Logic and Computer Science (Proc. LCC '94) Springer-Verlag Lecture Notes in Computer Science 960 (1995) 300-312.
30. (with W. Moser) Inductive inference of functions on the rationals, in COLT '95 (Proc. 8th Annual Conf. Computational Learning Theory), ACM (1995) 178-181.
29. (with J. Remmel) Feasible graphs and colorings, Math. Logic Quarterly 41 (1995), 327-352.
28. (with R. Downey, C. Jockusch, R. Shore) Countable thin Π_1^0 classes, Ann. Pure and Appl. Logic 59 (1993), 79-139.
27. Effective Dynamics, in Logical Methods (in honor of A. Nerode), eds. J. Crossley, J. Remmel, R. Shore, M. Sweedler, Birkhauser (1993), 162-177.
26. (with J. Remmel) Polynomial-time Abelian groups, Ann. Pure and Appl. Logic 56 (1992), 313-363.
25. (with J. Remmel) Recursively presented games and strategies, Math. Social Sciences 24 (1992), 117-139.
24. (with J. Remmel) Polynomial-time versus recursive models, Annals of Pure and Applied Logic 54 (1991), 17-58.
23. (with R.L. Smith) On the ranked points of a Π_1^0 set, J. Symbolic Logic 54 (1989), 975-991.
22. (with P. Clote, R. Smith, R. Soare, S. Wainer), Members of countable Π_1^0 classes, Ann. Pure and Appl. Logic 31 (1986), 45-63.
21. The stability problem, new results and counterexamples, Letters in Math. Physics 10 (1985), 367-372.
20. (with R.D. Mauldin), Borel equivalence and isomorphism of coanalytic sets, Dissertationes Math. 228 (1984), 1-32.
19. Monotone reducibility and the family of finite sets, J. Symbolic Logic 49 (1984), 774-782.
18. (with R.D. Mauldin), On the Borel class of the derived set operator, II, Bull. Soc. Math de France 111 (1983), 367-372.
17. (with R.D. Mauldin), Representations of well-founded preference orders, Canadian J. Math. 35 (1983), 496-508.

16. (with R.D. Mauldin), The Borel class of the derived set operator, *Bull. Soc. Math. France* 110 (1982), 357-380.
15. (with R.D. Mauldin), Faithful extensions of analytic sets to Borel sets, *Houston J. Math.* 6 (1980), 19-29.
14. Non-generable formal languages, *Fund. Informaticae* 3 (1980), 95-104.
13. (with R.D. Mauldin), Inductive definability, measure and category, *Advances in Math.* 38 (1980), 55-90.
12. The stability problem for transformations of the circle, *Proc. Royal Soc. of Edinburgh* 84A (1979), 279-281.
11. Parametrized inductive definitions and recursive inductive operators over the continuum, *Fundamenta Mathematica* 100 (1978), 10-15.
10. (with R.D. Mauldin) Measurable parametrizations and selections, *Trans. Amer. Math. Soc.* 245 (1978), 399-408.
9. (with E. Howorka) On vertex k-partitions of certain infinite graphs, *Discrete Math.* 23 (1978), 105-113.
8. Non-generable r.e. sets, in *Fundamentals of Computation Theory (Proc. Conf. Posnan 1977)*, Springer Lecture Notes in Computer Science 56 (1977), 379-385.
7. Inductive definitions, positive and monotone, in *Set Theory and Hierarchy Theory (Proc. Conf. Bierutowice 1975)*, Springer Lecture Notes in Math. 537 (1976), 51-63.
6. Monotone inductive definitions over the continuum, *J. Symbolic Logic* 41 (1976), 188-198.
5. Analytic inductive definitions, *J. Symbolic Logic* 39 (1974), 310-312.
4. Inductively defined sets of reals, *Bull. Amer. Math. Soc.* 80 (1974), 485-487.
3. (with A.R. Blass) Cores of Π_1^1 sets of reals, *J. Symbolic Logic* 39 (1974), 649-654.
2. The boundedness principle in ordinal recursion, *Fund. Math.* 71 (1974), 203-212.
1. Ordinal recursion and inductive definitions, in *Generalized Recursion Theory (Proc. Conf. Oslo 1972)*, eds. J. Fenstad and P. Hinman, North-Holland (1974), 221-264.