

April 12, 2012

Curriculum Vitae

Basic Information

Stanisław Paweł Radziszowski
born June 7, 1953 in Gdańsk, Poland
US permanent resident

Address and Contacts

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Education

M.S. degree obtained in theoretical computer science at the University of Warsaw, Poland, in April 1976. M.S. thesis - "*Programmability and $P=?NP$ Conjecture*" [1][2].

Ph.D. degree obtained in March 1980 in the Institute of Informatics at the University of Warsaw. Ph.D. thesis - "*Logic and Complexity of Synchronous Parallel Computations*" [3][4].

Professional Experience, Teaching

From 1976 to 1980 worked as an Assistant Professor at the Institute of Informatics, Faculty of Mathematics, of the University of Warsaw.

In the period 1980-1984 worked as a Visiting Professor at universities of Mexico City, initially at the Research Institute of Applied Mathematics and System Sciences (IIMAS) of the National University (UNAM), since 1983 also in the Department of Mathematics in the Metropolitan University (UAM).

From October 1984 worked as an Assistant Professor in the School of Computer Science and Technology at the Rochester Institute of Technology, NY. In September 1988 promoted to the rank of Associate Professor. Tenure granted in February 1990. In September 1995 promoted to the rank of Full Professor. Since 1997 Fellow of the Institute of Combinatorics and Its Applications.

Over three decades of extensive experience in teaching a variety of courses, mostly in theoretical computer science, on applications of computer science in mathematics, and on algorithms in various domains.

Research and Teaching Areas

- theory and practice of graphs
- computational combinatorics
- cryptography, complexity
- computations in number theory

The specific problems of particular interest are algorithms for hard problems like: Ramsey numbers, t -designs, knapsack, arithmetic of large integers, tests for primality, factoring into primes and other combinatorial problems in graph theory. The general problems of particular interest are in the complexity of algorithms, hierarchies of complexity classes and related areas, such as $P=NP$ conjecture. I was fortunate to obtain some interesting results in computational discrete mathematics, namely:

- 1986, the discovery of the first simple 6-(14,7,4) design, the smallest possible 6-design, jointly with Don Kreher [8], [17].
- 1990, the computation of the first classical Ramsey number for hypergraphs $R(4,4;3)=13$, jointly with Brendan McKay [25].
- 1993, the computation of the classical Ramsey number for graphs $R(4,5)=25$ [32], and the upper bound $R(5,5)\leq 49$ [35] (1995), jointly with Brendan McKay.
- 1995, computational proof of the nonexistence of 4-(12,6,6) designs, answering the last open existence question in design theory for at most 12 points, jointly with Brendan McKay [33].
- 1998, the computation of the smallest unknown Folkman number $F(3,3;5) = 15$ [38], jointly with Konrad Piwakowski and Sebastian Urbański.
- 2001, upper bound for the four color Ramsey number $R_4(3) \leq 62$ [43], jointly with Susan Fettes and Richard Kramer.
- 2004, general and computational constructive lower bounds for classical two-color [45] and multicolor [47] Ramsey numbers, jointly with Xu Xiaodong, Xie Zheng and Geoffrey Exoo.
- 2006, nonexistence of 2-(22,8,4) BIBD designs, answering the smallest open parameters existence question [51], jointly with Richard Bilous, Clement W. H. Lam, Larry H. Thiel, (Ben) P. C. Li, G. H. John van Rees, Wolfgang Holzmann and Hadi Kharaghani.
- 2009, progress on graph reconstruction conjecture for vertex and edge deleted cards, existential and universal reconstruction numbers, jointly with David Rivshin [59], [64].

CPU intensive computations on networked computers are an essential tool and an object of study for most researched problems, including those listed above.

Dynamic Survey of Ramsey Numbers

I am the author and a maintainer of the survey paper "*Small Ramsey Numbers*" [31], whose 13 revisions appeared in the *Electronic Journal of Combinatorics*. It is a dynamic survey of my main area of interest, updated periodically as a living article at <http://www.combinatorics.org>.

External Research Grants

1. "*Improvements and Applications of the Lenstra, Lenstra, Lovász Basis Reduction Algorithm*" (with D.L. Kreher), from the National Science Foundation, DCR-8606378, 1986.
2. "*Computing Combinatorial Configurations: t -designs and Ramsey Numbers*" (with D.L. Kreher), from the National Science Foundation, CCR-8711229, 1987-1988.
3. "*Computer Search for Elusive Combinatorial Configurations: A Research Toolchest*" (with D.L. Kreher), from the National Science Foundation, CCR-8920692, 1990-1991.
4. "*Innovative Searches for Ramsey Graphs and Other Extremal Combinatorial Configurations*", from the National Security Agency, MDA904-94-H-2009, 1994-1996.

5. "Multi-Cast Key Management" (with A. Kaminsky and M. Łukowiak), from Harris RF Communications Division, 2011.

External Educational Grants

1. "REU Site: Extremal Graph Theory and Dynamical Systems at RIT" (with D. Narayan/PI, W. Basener and T. Wiandt), from the National Science Foundation, DMS-0552418, 2007-2010.
2. "Multi-disciplinary Applied Cryptography" (with M. Łukowiak/PI and J. Vallino), CCLI grant from the National Science Foundation, DUE-0837656, 2009-2012.
3. "REU Site: Extremal Graph Theory and Dynamical Systems at RIT" (with D. Narayan/PI, A. Agarwal, B. Brooks, J. Jacob and T. Wiandt), from the National Science Foundation, DMS-1062128, 2011-2013.

Internal RIT Grants

1. "Automating Reasonings about Graph Colorings", Faculty Development Grant FEAD, RIT, 2000.
2. "Graph Coloring Algorithms and their Implementations", FEAD Grant, RIT, 2001.
3. "Constructive Design Theory: Quest for the 2-(22,8,4) Designs", FEAD Grant, RIT, 2002/3.
4. "Enhancing Cryptography Expertise", FEAD Grant, RIT, 2003/4.
5. "Computational Ramsey Theory", FEAD Grant, RIT, 2004/5.

Advising

I was the main advisor for 62 MS-CS students (28 theses and 34 projects), and I was a member of 7 Ph.D. committees. The publications listed below at positions 16, 24, 27, 30, 41, 42, 43, 46, 49, 50, 52, 58, 59, 60, 63, 64, 66, 67 and 69 were the result of joint work with CS/CE Master's students. I was a mentor for NSF-REU Mathematics programs during summers 2007, 2009, 2010 and 2011, which resulted in publications at positions 65, 70 and 73.

List of Publications (in chronological order of writing, not publication)

1. "Programmability and $P = NP$ Conjecture", in *Proceedings of Fundamentals of Computation Theory*, Poznań-Kórnik 1977, LNCS 56, Berlin, Springer-Verlag, (1977) 494-498.
2. "Programmability and $P = NP$ Conjecture", *Fundamenta Informaticae IV*, 2 (1978/79) 71-82.
3. "Logic and Complexity of Synchronous Parallel Computations", in *Proceedings of Mathematical Logic in Computer Science*, Colloquia Mathematica Societatis János Bolyai 26, Salgótarján, Hungary (1978), North-Holland, (1981) 675-697.
- 4.+ "Logic and Complexity of Synchronous Parallel Computations",
 - a) Ph.D. thesis (in Polish), University of Warsaw, 1980,
 - b) English version appeared in the CCPAS-report no. 353, Warsaw, 1980.
5. "Bounded Alternation", *IIMAS CT 242*, Universidad Nacional Autónoma de México, México D.F., 1980.
6. "Desarrollo de la teoría de los algoritmos en paralelo y su aplicación para evaluación en la máquina AHR" (in Spanish), [Theory of Parallel Algorithms and its Applications for the AHR Machine], *IIMAS CT 347*, Universidad Nacional Autónoma de México, México D.F., 1983.
7. "Aritmética en Precisión Múltiple para la Máquina FOONLY-F2" (in Spanish), [Multiple Precision Integer Arithmetic for the Computer FOONLY-F2], *IIMAS CT Mon. 76*, Universidad Nacional Autónoma de México, México D.F., 1983.

+ more than one version was published

8. "The Existence of Simple 6-(14,7,4) Designs" (with D.L. Kreher), *Journal of Combinatorial Theory, Series A*, 43 (1986) 237-243.
9. "Finding Simple t -Designs by Using Basis Reduction" (with D.L. Kreher), in *Proceedings of the 17-th Southeastern International Conference on Combinatorics, Graph Theory, and Computing*, Utilitas Mathematica, Winnipeg, Canada, *Congressus Numerantium*, 55 (1986) 235-244.
10. "Simple 5-(28,6, λ) Designs from $PSL_2(27)$ " (with D.L. Kreher), *Annals of Discrete Mathematics* 34, special volume on Combinatorial Design Theory dedicated to Alexander Rosa (edited by C.J. Colbourn and R.A. Mathon), North-Holland Mathematics Studies, 149 (1987) 315-318.
11. "New t -Designs Found by Basis Reduction" (with D.L. Kreher), in *Proceedings of the 18-th Southeastern International Conference on Combinatorics, Graph Theory, and Computing*, Utilitas Mathematica, Winnipeg, Canada, *Congressus Numerantium*, 59 (1987) 155-164.
12. "Solving Subset Sum Problem with the L^3 algorithm" (with D.L. Kreher), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 3 (1988) 49-63.
13. "Search Algorithm for Ramsey Graphs by Union of Group Orbits" (with D.L. Kreher), *Journal of Graph Theory*, 12(1) (1988) 59-72.
14. "On $R(3, k)$ Ramsey Graphs: Theoretical and Computational Results" (with D.L. Kreher), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 4 (1988) 37-52.
15. "Upper Bounds for Some Ramsey Numbers $R(3, k)$ " (with D.L. Kreher), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 4 (1988) 207-212.
16. "Lower Bounds for Multi-Colored Ramsey Numbers from Group Orbits" (with D.L. Kreher and Wei Li), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 4 (1988) 87-96.
17. "Constructing 6-(14,7,4) Designs" (with D.L. Kreher), in *Contemporary Mathematics*, AMS, 111 (1990) 137-151.
18. "Minimum Triangle-Free Graphs" (with D.L. Kreher), *Ars Combinatoria*, 31 (1991) 65-92.
19. "On the Covering of t -sets with $(t+1)$ -sets: $C(9,5,4)$ and $C(10,6,5)$ " (with D. de Caen, D.L. Kreher and W.H. Mills), *Discrete Mathematics*, 92 (1991) 65-77.
20. "On the Ramsey Number $R(K_5 - e, K_5 - e)$ ", *Ars Combinatoria*, 36 (1993) 225-232.
21. "The Parameters 4-(12,6,6) and Related t -Designs" (with D.L. Kreher, D. de Caen, S.A. Hobart and E.S. Kramer), *Australasian Journal of Combinatorics*, 7 (1993) 3-20.
22. "The Ramsey Numbers $R(K_3, K_8 - e)$ and $R(K_3, K_9 - e)$ ", *Journal of Combinatorial Mathematics and Combinatorial Computing*, 8 (1990) 137-145.
23. "Enumeration of All Simple $t-(t+7, t+1, 2)$ Designs", *Journal of Combinatorial Mathematics and Combinatorial Computing*, 12 (1992) 175-178.
24. "The Number of Edges in Minimum $(K_3, K_p - e, n)$ Graphs" (with Jing Zou), in *Proceedings of the 21-st Southeastern International Conference on Combinatorics, Graph Theory, and Computing*, Utilitas Mathematica, Winnipeg, Canada, *Congressus Numerantium*, 78 (1990) 153-165.
25. "The First Classical Ramsey Number for Hypergraphs Is Computed" (with B.D. McKay), *Proceedings of the Second Annual ACM-SIAM Symposium on Discrete Algorithms*, SODA'91, San Francisco, (1991) 304-308.
26. "A New Upper Bound for the Ramsey Number $R(5,5)$ " (with B.D. McKay), *Australasian Journal of Combinatorics*, 5 (1992) 13-20.
27. "The Ramsey Numbers $R(K_4 - e, K_6 - e)$ and $R(K_4 - e, K_7 - e)$ " (with J. McNamara), *Proceedings of the 22-nd Southeastern International Conference on Combinatorics, Graph Theory, and Computing*, Utilitas Mathematica, Winnipeg, Canada, *Congressus Numerantium*, 81 (1991) 89-96.
28. "On $(n, 5, 3)$ -Turán Systems" (with E.D. Boyer, D.L. Kreher and A.F. Sidorenko), *Ars Combinatoria*, 37 (1994) 13-31.
29. "Linear Programming in Some Ramsey Problems" (with B.D. McKay), *Journal of Combinatorial Theory, Series B*, 61 (1994) 125-132.

- 30.+ "Paths, Cycles and Wheels in Graphs without Antitriangles" (with Jin Xia), *Australasian Journal of Combinatorics*, 9 (1994) 221-232. Preliminary version appeared as RIT Technical Report, Department of Computer Science, RIT-TR-92-008, 1992.
- 31.+ "Small Ramsey Numbers", *The Electronic Journal of Combinatorics*, *Dynamic Survey DS1*, revision #13, 84 pages (2011), <http://www.combinatorics.org/>, revisions #1 through #12, 1994-2009. Preliminary version appeared as RIT Technical Report, Department of Computer Science, RIT-TR-93-009, 1993.
32. " $R(4,5)=25$ " (with B.D. McKay), *Journal of Graph Theory*, 19(3) (1995) 309-322.
33. "The Nonexistence of 4-(12,6,6) Designs" (with B.D. McKay), in *Computational and Constructive Design Theory*, (edited by W.D. Wallis), Mathematics and its Applications 368, Kluwer Academic Publishers, 1996, 177-188.
34. "Towards Deciding the Existence of 2-(22,8,4) Designs" (with B.D. McKay), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 22 (1996) 211-222.
35. "Subgraph Counting Identities and Ramsey Numbers" (with B.D. McKay), *Journal of Combinatorial Theory, Series B*, 69(2) (1997) 193-209.
36. " $30 \leq R(3,3,4) \leq 31$ " (with K. Piwakowski), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 27 (1998) 135-141.
37. "2-(22,8,4) Designs Have No Blocks of Type 3" (with B.D. McKay), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 30 (1999) 251-253.
38. "Computation of the Folkman Number $F_e(3,3;5)$ " (with K. Piwakowski and S. Urbański), *Journal of Graph Theory*, 32 (1999) 41-49.
39. "Ramsey Numbers for Triangles versus Almost-Complete Graphs" (with B.D. McKay and K. Piwakowski), *Ars Combinatoria*, LXXIII (2004) 205-214.
- 40.+ "The Ramsey Multiplicity of K_4 " (with K. Piwakowski), *Ars Combinatoria*. LX (2001) 131-136. Preliminary version "Computation of the Ramsey Multiplicity of K_4 " appeared in the *Proceedings of the Workshop on Computational Graph Theory and Combinatorics*, Victoria, British Columbia (1999) 28-30.
41. "On Halving Line Arrangements" (with A. Beygelzimer), *Discrete Mathematics*, special issue "Kleitman and Combinatorics: A Celebration", 257 (2002) 267-283.
42. "A Computational Approach for the Ramsey Numbers $R(C_4, K_n)$ " (with Kung-Kuen Tse), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 42 (2002) 195-207.
43. "An Upper Bound of 62 on the Classical Ramsey Number $R(3,3,3,3)$ " (with S. Fettes and R. Kramer), *Ars Combinatoria*, LXXII (2004) 41-63.
44. "Towards the Exact Value of the Ramsey Number $R(3,3,4)$ " (with K. Piwakowski), *Proc. of the 33-rd Southeastern International Conference on Combinatorics, Graph Theory, and Computing*, Utilitas Mathematica, Winnipeg, Canada, *Congressus Numerantium*, 148 (2001) 161-167.
45. "A Constructive Approach for the Lower Bounds on the Ramsey Numbers $R(s,t)$ " (with Xu Xiaodong and Xie Zheng), *Journal of Graph Theory*, 47 (2004) 231-239.
46. "Computation of the Ramsey Number $R(B_3, K_5)$ " (with A. Babak and Kung-Kuen Tse), *Bulletin of the Institute of Combinatorics and Its Applications*, 41 (2004) 71-76.
47. "Constructive Lower Bounds on Classical Multicolor Ramsey Numbers" (with Xu Xiaodong, Xie Zheng and G. Exoo), *The Electronic Journal of Combinatorics*, 11 (2004) #R35, 24 pages, <http://www.combinatorics.org/>.
- 48.+ "Complexity Results in Graph Reconstruction" (with Edith Hemaspaandra, Lane Hemaspaandra and Rahul Tripathi), *Discrete Applied Mathematics*, 152(2) (2007) 103-118. Preliminary version in the Proceedings of the 29-th International Symposium on Mathematical Foundations of Computer Science, MFCS Prague 2004, LNCS 3153, 287-297. Also, Technical Report 852, Department of Computer Science, University of Rochester, October 2004, 27 pages.

49. "Computation of the Ramsey Number $R(W_5, K_5)$ " (with Joshua Stinehour and Kung-Kuen Tse), *Bulletin of the Institute of Combinatorics and Its Applications*, 47 (2006) 53-57.
50. "Computing the Folkman Number $F_v(2,2,3;4)$ " (with Jonathan Coles), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 58 (2006) 13-22.
51. "There is no (22,8,4) Block Design" (with R. Bilous, C. W. H. Lam, L. H. Thiel, P. C. Li, G. H. J. van Rees, W. Holzmann and H. Kharaghani), *J of Combinatorial Designs*, 15 (2007) 262-267.
52. "Graph Reconstruction Numbers" (with Brian McMullen), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 62 (2007) 85-96. Errata in 63 (2007) 93-95.
53. "On the Most Wanted Folkman Graph" (with Xu Xiaodong), *Geombinatorics*, XVI (4) (2007) 367-381. Substantial citations in *The Mathematical Coloring Book* by A. Soifer, Springer 2009.
54. " $28 \leq R(C_4, C_4, C_3, C_3) \leq 36$ " (with Xu Xiaodong), *Utilitas Mathematica*, 79 (2009) 253-257.
55. "A Case for a Parallelizable Hash" (with Alan Kaminsky), *Proceedings of MILCOM'2008*, San Diego, CA, November 2008.
56. "Bounds on Some Ramsey Numbers Involving Quadrilateral" (with Xiaodong Xu and Zehui Shao), *Ars Combinatoria*, 90 (2009) 337-344.
57. "An Improvement to Mathon's Cyclotomic Ramsey Colorings" (with Xiaodong Xu), *The Electronic Journal of Combinatorics*, 16(1) (2009) #N1, 5 pages, <http://www.combinatorics.org/>.
58. "NTRU-Based Sensor Network Security: a low-power hardware implementation perspective" (with Fei Hu, Kyle Wilhelm, Michael Schab, Marcin Łukowiak, and Yang Xiao), *Security and Communication Networks*, 2 (2009) 71-81.
59. "Vertex and Edge Graph Reconstruction Numbers of Small Graphs" (with David Rivshin), *Australasian Journal of Combinatorics*, 45 (2009) 175-188.
- 60.+ "Scalable FPGA Design and Performance Analysis of PHASH Hashing Function" (with Przemysław Zalewski and Marcin Łukowiak), *Proceedings of the 16-th International Conference Mixed Design of Integrated Circuits and Systems*, June 2009, Łódź, Poland. Extended version "Case Study on FPGA Performance of Parallel Hash Functions", *Przegląd Elektrotechniczny/Electrical Review*, ISSN 0033-2097, R86/NR11a (2010) 151-155.
61. "Ramsey Numbers Involving Cycles", a survey in *Ramsey Theory: Yesterday, Today and Tomorrow*, edited by Alexander Soifer, Progress in Mathematics 285, Springer-Birkhauser 2011, 41-62.
62. "An Overview of Cryptanalysis Research of the Advanced Encryption Standard" (with Alan Kaminsky and Michael Kurdziel), *Proceedings of MILCOM'2010*, San Jose, CA, November 2010.
63. "Trustworthy Data Collection from Implantable Medical Devices via High-Speed Security Implementation Based on IEEE 1363" (with Fei Hu, Qi Hao, Marcin Łukowiak, Qingquan Sun, Kyle Wilhelm and Yao Wu), *IEEE Trans. on Inf. Tech. in Biomedicine*, 14(6) (2010) 1397-1404.
64. "NTRU-based confidential data transmission in telemedicine sensor networks" (with Fei Hu, Xiaojun Cao, Kyle Wilhelm and Marcin Łukowiak), in *Security in Ad Hoc and Sensor Networks*, Singapore World Scientific, 2010, 159-192.
65. "New Bounds on Some Ramsey Numbers" (with Kevin Black and Daniel Leven), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 78 (2011) 213-222.
66. "Computing the Folkman Number $F_v(2,2,2,2;4)$ " (with Joel Lathrop), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 78 (2011) 119-128.
67. "Multi-Vertex Deletion Graph Reconstruction Numbers" (with David Rivshin), *Journal of Combinatorial Mathematics and Combinatorial Computing*, 78 (2011) 303-321.
68. "More Constructive Lower Bounds on Classical Ramsey Numbers" (with Xiaodong Xu and Zehui Shao), *SIAM Journal on Discrete Mathematics*, 25 (2011) 394-400.
69. "Effects of GPU and CPU Loads on Performance of CUDA Applications" (with Maksim Bobrov, Roy Melton and Marcin Łukowiak), *Proceedings of International Conference on Parallel and Distributed Processing Techniques and Applications*, PDPTA'11, Las Vegas, NV, July 2011, Vol. II, 575-581.

Forthcoming Publications

70. "Computing the Ramsey Number $R(K_5 - P_3, K_5)$ " (with Jesse Calvert and Michael Schuster), to appear in the *Journal of Combinatorial Mathematics and Combinatorial Computing*.
71. "Secure Healthcare Data Management in the Cloud Using Ciphertext-Policy Attribute-Based Encryption" (with Suhair Alshehri and Rajendra K. Raj), *accepted for the DMC 2012*.
72. "Cybersecurity Education: Bridging the Gap between Hardware and Software Domains" (with Marcin Łukowiak, James Vallino and Christopher Wood), *submitted*.
73. "On Some Multicolor Ramsey Numbers Involving $K_3 + e$ and $K_4 + e$ " (with Daniel S. Shetler and Michael A. Wurtz), to appear in the *SIAM Journal on Discrete Mathematics*.
74. "Developing an Applied, Security-Oriented Computing Curriculum" (with Marcin Łukowiak, Andy Meneely, James Vallino and Christopher Wood), to appear in the *Proceedings of the ASEE 2012*, San Antonio, TX.
75. "Bounds on Shannon Capacity and Ramsey Numbers from Product of Graphs" (with Xiaodong Xu), *submitted*.

Science Magazines and other Dissemination

76. "W poszukiwaniu funkcji skrótów", in Polish, (Designing hash function) with Michał Adamaszek, *DELTA*, 408 (2008) 1-3.
77. "Some Ramsey Problems Involving Triangles - Computational Approach", in *Ramsey Theory: Yesterday, Today and Tomorrow*, edited by Alexander Soifer, Progress in Mathematics 285, Springer-Birkhauser 2011, 185-188.

Visiting Positions/Fellowships

| | | |
|----------|-----------------|---|
| October | - November 1988 | National Autonomous University of Mexico in Mexico City |
| July | - December 1991 | Technical University of Gdańsk, Poland |
| July | - August 1992 | Australian National University in Canberra, Australia |
| January | - February 1994 | Australian National University in Canberra, Australia |
| July | - August 1997 | Australian National University in Canberra, Australia |
| November | 2010 | Technical University of Gdańsk, Poland |

Invited Presentations

- 1987 - University of Kentucky, Lexington, KY
- 1988 - National University of Mexico, Mexico City, Mexico
- 1990 - University of Alberta, Edmonton, AB, Canada
- 1990 - Pennsylvania State University, University Park, PA
- 1991 - Queens University, Kingston, ON, Canada
- 1991 - Technical University of Gdańsk, Poland
- 1991 - University of Warsaw, Poland
- 1991 - Technical University of Wrocław, Poland
- 1991 - Technical University of Braunschweig, Germany
- 1991 - Polish Academy of Sciences, Warsaw, Poland
- 1992 - Australian National University, Canberra, Australia
- 1992 - University of Sydney, Sydney, Australia
- 1993 - University of Colorado at Denver, CO
- 1993 - St. John Fisher College, Rochester, NY
- 1994 - University of Queensland, Brisbane, Australia
- 1994 - Concordia University, Montreal, PQ, Canada
- 1995 - Technical University of Gdańsk, Poland

1996 - Technical University of Gdańsk, Poland
 1996 - University of Sevilla, Spain
 1997 - University of Alberta, Edmonton, AB, Canada
 1997 - Technical University of Gdańsk, Poland
 1998 - University of Rochester (2), NY
 1999 - University of Alberta, Edmonton, AB, Canada
 1999 - Michigan Technological University, Houghton, MI
 1999 - Technical University of Gdańsk, Poland
 2001 - XXVII Szkoła Matematyki Poglądowej, Grzegorzewice, Poland
 2001 - Technical University of Gdańsk, Poland
 2002 - Technical University of Gdańsk, Poland
 2003 - Rochester Institute of Technology, Mathematics Colloquium, Rochester, NY
 2004 - Technical University of Gdańsk, Poland
 2005 - University of Rochester, NY
 2005 - Nineteenth Midwest Conference on Combinatorics, Cryptography and Computing, Rochester, NY
 2006 - Technical University of Gdańsk, Poland
 2007 - University of Rochester, NY
 2007 - Harris Corp., Rochester, NY
 2007 - Technical University of Gdańsk, Poland
 2007 - Technical University of Poznań, Poland
 2007 - Warsaw University, Poland
 2008 - University of Alberta, Edmonton, AB, Canada
 2008 - University of Colorado at Denver, CO
 2009 - DIMACS Ramsey Theory Workshop, Rutgers University, New Brunswick, NJ
 2010 - University of Rochester, NY
 2010 - West Virginia University, Morgantown, WV
 2010 - Technical University of Gdańsk, Poland

Contributed Conference Presentations

1977-1980 - Local/regional conferences in Poland,
 1978 - Conference on Logic in Parallel Computations, Salgótarján, Hungary
 1979 - Conference on Complexity of Parallel Computations, Berlin, Germany
 1980-1983 - Local/regional conferences in Mexico
 1987 - 18-th Southeastern Conference on Combinatorics, Boca Raton, FL
 1988 - Fourth SIAM Conference on Discrete Mathematics, San Francisco, CA
 1989 - 20-th Southeastern Conference on Combinatorics, Boca Raton, FL
 1989 - First Great Lakes Computer Science Conference, Kalamazoo, MI
 1990 - Fifth SIAM Conference on Discrete Mathematics, Atlanta, GA
 1991 - Second Annual ACM-SIAM Symposium on Discrete Algorithms, San Francisco, CA
 1991 - Colloquium on Combinatorics, Braunschweig, Germany
 1993 - 24-th Southeastern Conference on Combinatorics, Boca Raton, FL
 1994 - Ninth Midwest Conference on Combinatorics and Computing, Lincoln, NE
 1995 - 6-th Auburn Combinatorics Conference, Auburn, AL
 1995 - 8-th Cumberland Conference, Nashville, TN
 1996 - 7-th Auburn Combinatorics Conference, Auburn, AL
 1996 - Eleventh Midwestern Conference on Combinatorics and Computing, Las Vegas, NV
 1997 - 28-th Southeastern Conference on Combinatorics, Boca Raton, FL
 1997 - Colloquium on Combinatorics, Braunschweig, Germany
 1998 - 11-th Cumberland Conference, Johnson City, TN
 1999 - 3in1 Graph Theory Workshop, Kraków, Poland
 2000 - Tenth SIAM Conference on Discrete Mathematics, Minneapolis, MN
 2000 - Fourteenth Midwest Conference on Combinatorics, Cryptography and Computing, Wichita, KS

2001 - 32-nd Southeastern Conference on Combinatorics, Baton Rouge, LA
2001 - Fifteenth Midwest Conference on Combinatorics, Cryptography and Computing, Las Vegas, NV
2002 - 33-rd Southeastern Conference on Combinatorics, Boca Raton, FL
2003 - 34-th Southeastern Conference on Combinatorics, Boca Raton, FL
2004 - Fourteenth SIAM Conference on Discrete Mathematics, Nashville, TN
2004 - 29-th Int. Symposium on Mathematical Foundations of Computer Science, MFCS'04, Prague
2004 - Eighteenth Midwest Conference on Combinatorics, Cryptography and Computing, Rochester, NY
2006 - 37-th Southeastern Conference on Combinatorics, Boca Raton, FL
2007 - 38-th Southeastern Conference on Combinatorics, Boca Raton, FL
2008 - 39-th Southeastern Conference on Combinatorics, Boca Raton, FL
2009 - 40-th Southeastern Conference on Combinatorics, Boca Raton, FL
2010 - SIAM Conference on Discrete Mathematics, Austin, TX
2011 - 24-th Cumberland Conference, Louisville, KY
2012 - 43-rd Southeastern Conference on Combinatorics, Boca Raton, FL
2012 - SIAM Conference on Discrete Mathematics, Halifax, NS

Other Attended Conferences

1977-1980 - Local/regional conferences in Poland,
1978 - The World Congress of Mathematics, Helsinki, Finland
1979 - The FCS Conference in Olomouc, Czechoslovakia
1980-1983 - Local/regional conferences in Mexico
1985 - STOC'85, Providence, RI
1985 - Symposium on Complexity Theory, New York, NY
1986 - Third SIAM Conference on Discrete Mathematics, Clemson, SC
1989 - Theoretical Computer Science Conference, GWU, Washington, DC
1993 - Twentieth Mighty Conference on Graph Theory, Oxford, OH
1998 - Complexity '98, Buffalo, NY
1999 - Algorithms in Quantum Information Processing, Chicago, IL
1999 - Paul Erdős Memorial Lecture, Memphis, TN
2000 - Advanced Cluster Computing Consortium Workshop, Ithaca, NY
2001 - Symposium in honor of Juris Hartmanis, Ithaca, NY
2005 - Symposium on High-Performance Computing, Cornell Theory Center, Ithaca, NY
2009 - 23-rd Midwest Conference on Combinatorics, Cryptography and Computing, Rochester, NY
2011 - Atlanta Lecture Series in Combinatorics and Graph Theory, GSU, Atlanta, GA

Languages: English (fluent), Spanish (fluent), Polish (native), some Russian