

VITA

NAME: Bozenna Pasik-Duncan
BORN: June 30, 1947, Radom, Poland
ADDRESS: 1208 Schwarz Road, Lawrence, KS 66049

EDUCATION:

1970 M.Sc., Department of Mathematics, the Warsaw University (Numerical Analysis)
1976 Diploma, the 2 year Pedagogical Program, the Warsaw School of Economics
1978 Ph.D., Department of Mathematics, the Warsaw School of Economics (Stochastic Processes)
1986 Habilitation Doctorate Degree, Department of Mathematics, the Warsaw School of Economics (Stochastic Adaptive Control)

POSITIONS HELD:

1970-71 Assistant, Mathematics Department, the Warsaw School of Economics
1971-78 Lecturer, Mathematics Department, the Warsaw School of Economics
1973-75 Lecturer, Mathematics Department, Technical University of Warsaw
1978-84 Assistant Professor, Mathematics Department, the Warsaw School of Economics
1982 IREX Fellowship for research at the University of Kansas, Mathematics Department; University of California-Berkeley, Department of Electrical Engineering and Computer Science; University of Maryland-Baltimore County, Mathematics Department; University of Maryland-College Park, Department of Electrical Engineering; Harvard University, MIT, Electrical Engineering Department
(summer and fall)
1983 Research Associate, University of Kansas, Department of Mathematics
(spring)
1984-87 Instructor, Mathematics Department, University of Kansas
1987-89 Assistant Professor, Mathematics Department, University of Kansas
1989-1993 Associate Professor, Mathematics Department, University of Kansas
1993-present Professor, Mathematics Department, University of Kansas

AWARDS and HONORS:

1973-80 Grant from the Polish Central Planning Committee
1975 National Teaching Award from the Ministry of Higher Education and Sciences - the highest National Teaching Award for Teaching and Research Excellence
1976 Chancellor Research Award from the Warsaw School of Economics

1977-78 Teaching Award and salary supplement from the Warsaw School of Economics

1978 Chancellor Award for outstanding Ph. D. dissertation from the Warsaw School of Economics

1980 Award for research excellence from the Polish Central Planning Committee

1980 (fall) On leave - Semester on Optimal Control, Banach International Center of Mathematics, Warsaw

1982 International Research Exchange Fellowship to U.S.A.

1991-93 Career Advancement Award from NSF

1996 Inclusion in the fourth edition on Who's Who Among America's Teachers, 1996

1996 W. T. Kemper Fellowship for Teaching Excellence and Advising in Public Outreach

1996 Senior Member of the IEEE Control Society

1999 Outstanding Teaching of Graduate Mathematics Award

2000 IEEE Third Millennium Medal

2000 IEEE Control Systems Society Distinguished Member Award

2001 IEEE Fellow

RESEARCH SUPPORT:

1973-80 Research Grant from the Polish Central Planning Committee

1982 International Research Exchange Fellowship to U.S.A.

1987 Summer Grant for research from University of Kansas

1988-91 NSF Grant (\$222,407) (Co-P.I. Tyrone Duncan)

1991-93 Career Advancement Award from NSF (\$56,903)

1991-92 NSF Grant (\$49,623) (Co-P.I. Tyrone Duncan)

1992 Research Experiences for Undergraduates, Supplement to NSF grant (\$5,249)

1993 Research Experiences for Undergraduates, Supplement to NSF grant (\$10,000)

1993-96 NSF Grant (\$180,000) (Co-P.I. Tyrone Duncan)

1994 Research Experiences for Undergraduates, Supplement to NSF Grant (\$10,000)

1995 Research Experiences for Undergraduates, Supplement to NSF Grant (\$10,000)

1996-99 NSF Grant (\$210,000) (Co-P.I. Tyrone Duncan)

1996 Research Experiences for Undergraduates, Supplement to NSF Grant (\$10,000)

1997 Sprint Grant (\$50,000) (Co-P.I. Tyrone Duncan)

1997 Research Experiences for Undergraduates, Supplement to NSF Grant (\$10,000)

1997-98 \$12,800 P.I. (funding for an international conference at the University of Southern California)
1997 Sprint Grant (\$48,700) (Co-P.I. Tyrone Duncan)
1998 Sprint Grant (\$99,924) (Co-P.I. Tyrone Duncan)
1999-2002 NSF Grant (\$300,000) (Co-P.I. Tyrone Duncan)

PROFESSIONAL ACTIVITIES:

Referee: NSF, IEEE, Mathematical Reviews, J. Optimization Theory and Appl., Automatica, J. Applied Math. and Stochastic Analysis, Stochastic and Stochastic Reports, J. Math. Systems, Estimation and Control, Journal of Intelligent and Fuzzy Systems

1973-80 President of the Warsaw School of Economics of the Polish Mathematical Society and Vice President of Warsaw Chapter of the Polish Mathematical Society

1979 Organizer of the National Conference on Education of Mathematics at Economic Universities

1980-83 Director of the Center of Applied Mathematics of the Polish Mathematical Society

1988-90 Co-organizer of the Special Session at the IEEE Conference on Control and Decision

1988- USA Coordinator of Polish Mathematicians

1989- Polish Studies Committee - KU

1989- Educational Committee - KU (Math Department)

1990- Evaluation of Teaching Committee - KU (Math Department)

1990-95 Associate Editor of IEEE Transactions on Automatic Control

1990-91 Appointed Member of the Board of Governors of the Institute of Electrical and Electronics Engineers Control Systems Society

1990- Chair of the Stochastic Adaptive Control Seminar at KU

1991-95 Department's Hiring Committee

1991 Co-Organizer of International Workshop on "Stochastic Theory-Adaptive Control" at KU sponsored by NSF and KU

1991-95 Advisor of Ph.D. students

1991 Advisor of two Master's Research Components

1991-94 College Graduate Studies Committee

1992-93 Organizer of the Special Session at four International Conferences

1992 Organizer of the Math Workshop for Sunset Hill Elementary Students, KU

1992 Co-Editor of Proc. of International Workshop "Stochastic Theory-Adaptive Control," Lawrence, KS, September, 1991

1992 Advisor of the Undergraduate Student's Project

1992-95 College Chairpersons Review Committee

1992 Advisor of Master's Research Component

1992- Associate Editor of the Ulam Quarterly

1993- Advisor of 4 Ph.D. students

- 1993-94 Advisor of 2 Undergraduate Student's Projects
- 1993-94 Program Director of the Society for SIAM Activity Group on Control and Systems Theory
- 1993-95 Member of the Organizing Committee of SIAM Activity Group on Control and Systems Theory Meeting held in St. Louis, April 1995
- 1993-94 Member of the Organizing Committee of 1994 Annual Meeting of SIAM in San Diego, July 1994
- 1993-94 Member of the Program Committee of the 33rd IEEE Conference on Decision and Control, Orlando, Florida, December 1994
- 1993 Organizer of two Math Workshops for Sunset Hill Elementary Students, KU
- 1993-98 Chair of the IEEE Standing Committee on Assistance to At-Risk Scientists and Engineers
- 1993-94 College Faculty Election Committee
- 1993- University General Research Fund Committee
- 1994-95 Advisor of Master's Research Component
- 1994-95 Member of the Program Committee of the 1995 Automatic Control Conference in Seattle, Washington, June 1995
- 1994-95 Member of the Program Committee of the 1995 International Conference on Control and Information in Hong Kong, July 1995
- 1994-98 Chair of the IEEE Standing Committee on "Women in Control"
- 1994- Editor of the column "Women in Control" in the IEEE Control and Systems Magazine
- 1994 Organizer of two Math Workshops for Sunset Hill Elementary Students, KU
- 1994- A member of the IEEE Conference Editorial Board
- 1994- A member of the SIAM Master Program
- 1994 A member of Ph.D. examination committee for Economics Department, Business School and Engineering School
- 1994-96 Member of the Organizing Committee of the 1996 International Conference on Mathematical Theory of Networks and Systems
- 1995 Chair of the Program Committee of the Third SIAM Conference on Control held in St. Louis, April 1995
- 1995 Advisor of 2 Undergraduate Projects
- 1995-96 A member of AMS-SIAM 1996 Summer Symposium Organizing Committee
- 1995-96 A member of the Organizing Committee of the 1996 SIAM Annual Meeting
- 1995- Associate Editor at Large of the IEEE Transactions on Automatics Control Editorial Board
- 1995- Associate Editor of the Journal of Intelligent Fuzzy Systems
- 1995 A member of the International Federation of Automatic Control (IFAC) Committee on the Financial Aid
- 1995 A member of the SIAM Prize Committee
- 1995-96 A member of the Organizing Committee of the International Conference on Stochastic Differential Equations, Budapest, Hungary, August 1996
- 1995 The organizer of 2 seminars on Math Technology in the Higher Education,

- Zakopane, Poland, September 1995
- 1995 The organizer of the Math Technology Workshop for the Sunset Hill Elementary School students, KU, December 1995
- 1996 The organizer of the special session of the International Symposium on the Mathematical Theory of Networks and Systems Conference in St. Louis, June 1996
- 1996 Organizer of the Math Awareness Week at KU
- 1996 Local organizer of the 1996 SIAM Annual Meeting in Kansas City.
- 1996 The organizer of the invited session at the IEEE Control Decision Conference, Kobe, Japan, December 1996
- 1996- A member of the Program Committee of the 1998 American Control Conference
- 1997 Organizer of the Math Awareness Week at KU
- 1997- Elected member of the Board of Governors of the IEEE Control Systems Society
- 1997 Co-organizer of the International Conference on Stochastic Control and Nonlinear Filtering, University of Southern California, December 1997
- 1997-98 A member of the Program Committee of the 1998 Control and Distributed Parameter and Stochastic Systems, Hangzhou, China, June 1998
- 1997 Advisor of 6 Undergraduate Summer Research Projects
- 1997 SIAM Steering Committee
- 1997 The organizer of the invited session at the IEEE Control Decision Conference, San Diego, CA, December 1997
- 1998-99 Vice President of the IEEE-Control System Society (12,000 members)
- 1998 A member of the Program Committee of the IEEE Conference on Decision and Control
- 1998 Coordinator of the Math Awareness Week at KU
- 1998 The organizer of the invited session at the IEEE Control Decision Conference, Tampa, FL, December 1998
- 1999 The organizer of the invited session at the IEEE Control Decision Conference, Phoenix, AZ, December 1999
- 1999 Coordinator of the Mathematics Awareness Month at KU
- 1999 Chair of the Chair Hiring Committee
- 1999 Advisor of 10 graduate students and 5 honors undergraduates
- 1999- Chair of the IEEE/CSS Task Force on Globalization
- 2000 Organizer and the Chair of the Program Committee of the First NSF National Workshop for High School Teachers of Math and Science
- 2000 The Leader of the Control Systems Delegation to the People's Republic of China
- 2000- Member of the Editorial Board of the Communications in Information and Systems Journal
- 2000- Chair of the IEEE/CSS Standing Committee on International Affairs

- 2000 Organizer of Two Invited Sessions at the 39th IEEE/CSS CDC
- 2000 Member of the Program Committee of the 39th CDC
- 2000 Member of the IFAC Technical Committee on Identification
- 2000- Member of the Program Committee of the 2001 IFAC Workshop on Identification
- 2000- Member of the KU Committee on Undergraduate Studies and Advising
- 2000 Member of the KU Mathematics Department Long Range Planning Committee
- 2000 Coordinator of the 2000 Mathematics Awareness Month at KU
- 2000 Chair of the Stochastic Adaptive Control Seminar
- 2000 Advisor of 8 graduate and 4 honors undergraduate students
- 2001 Coordinator of the 2001 Mathematics Awareness Month at KU

PROFESSIONAL AFFILIATIONS:

- 1972- Polish Mathematical Society (Vice President of the Warsaw Chapter, 1972-82)
- 1980- Bernoulli Society
- 1985- Sigma Xi
- 1987- Association for Women in Mathematics
- 1988- American Mathematical Society
- 1989- Society for Industrial and Applied Mathematics
- 1989- The Mathematical Association of America
- 1990- The Institute of Electrical and Electronics Engineers Control Systems Society
- 1992- American Statistical Association
- 1996- The Kansas Association of Teachers of Mathematics

LECTURE AND SYMPOSIA INVITATIONS:

1. National Conference on Education of Mathematics at Economic Universities (invited speaker at annual meetings, Poland, 1975-80, organizer 1979).
2. Czech-Polish-Russian Meeting of Econometricians, Poland, 1978.
3. Computer and Automation Institute, Hungarian Academy of Sciences, Budapest, Hungary, June 1982.
4. Twelfth National Conference on Applied Mathematics (Forum Lecture), Poland, 1983.
5. Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland, fall 1983 (series of lectures on adaptive control).
6. First Hungarian-Polish School on Adaptive Control, Banach International Center of Mathematics, Poland, 1984.
7. Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland, June 1986.

8. Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland, July 1987.
9. Twenty-sixth Conference on Decision and Control, Los Angeles, 1987.
10. Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland, June 1988.
11. Fourth Bad Honnef Conference on Stochastic Differential Systems, Bad Honnef, West Germany, June 1988.
12. Institut National de Recherche en Informatique et en Automatique-INRIA, France, June 1988.
13. 1988 IFIP Conference on Stochastic Systems and Optimization, Jablonna, Poland, September 1988.
14. The American Mathematical Society (AMS) Regional Meeting, Lawrence, Kansas, October 1988.
15. Twenty-seventh Conference on Decision and Control, Austin, Texas, 1988.
16. Institut National de Recherche en Informatique et en Automatique-INRIA, France, June 1989.
17. Charles University, Prague, Czechoslovakia, June 1989.
18. Institute of Mathematics, PAN, Warsaw, Poland, July 1989.
19. Twenty-eighth Conference on Decision and Control, Tampa, Florida, 1989.
20. Ulam Quarterly and Algebraic Geometry Conference, Palm Beach, Florida, February 1990.
21. Institut National de Recherche en Informatique et en Automatique-INRIA France, June 1990.
22. Workshop on Adaptive Control, Banach International Mathematical Center, Warsaw, Poland, 4-5 July, 1990. (plenary talk)
23. Department of Probability and Statistics, Charles University, Prague, Czechoslovakia, July 1990.
24. Ulam Conference, Palm Beach, Florida, April 1991.
25. Workshop on Applied Stochastic Analysis, Rutgers University, New Brunswick, New Jersey, April 1991.
26. Institute National de Recherche en Informatique et en Automatique-INRIA, France, June 1991.
27. Department of Probability and Statistics, Charles University, Prague, Czechoslovakia, July 1991.
28. Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland, July 1991.
29. 15th IFIP Conference on System Modelling and Optimization - Zurich, Switzerland, September 1991.
30. 16th Symposium on Operations Research, Trier, Germany, September 1991. (plenary talk)
31. Third Annual Ulam Mathematics Conference, West Palm Beach, 19-20 March, 1992.
32. Department of Probability and Statistics, Charles University, Prague, Czechoslovakia, April 1992.
33. Institute National de Recherche en Informatique et en Automatique-INRIA, France, April 1992.
34. Conference on Stochastic Partial Differential Equations CIRM, Marseille-Luminy, France, 12-18 April, 1992. (plenary talk)
35. Boston University-MIT-Harvard, June 1992.
36. Department of Probability and Statistics, Charles University, Prague, Czechoslovakia, July 1992.

37. Institute of Mathematics, Polish Academy of Sciences, Warsaw, July 1992.
38. SIAM Conference on Control and Its Applications, Minneapolis, Minnesota, 17-19 September, 1992.
39. Stochastic Control Month of the Fall 1992 Probability Workshop, Montreal, Canada, November, 1992. (plenary talk)
40. II Workshop on Adaptive Control, Cancun, Mexico, 9-11 December, 1992.
41. Fourth Annual Ulam Conference, West Palm Beach, Florida, March 1993. (Plenary talk.)
42. The Workshop on "Adaptive Control, Filtering and Signal Processing," Institute for Mathematics and Its Applications, Minneapolis, Minnesota, April 1993. (Plenary talk).
43. Institute of Mathematics, Polish Academy of Sciences, Warsaw, June 1993.
44. The International Workshop on "Control Theory and its Applications," Adelaide, Australia, July 1993. (Plenary talk).
45. 22nd Conference on Applications of Mathematics (the plenary talk), Zakopane, Poland, September 1993.
46. Fifth Annual International Ulam Mathematics Conference and Von-Neumann Symposium, Palm Beach Atlantic College, March, 1994 (featured speaker).
47. 23rd Conference on Applications of Mathematics (plenary talk), Zakopane, Poland, September 1994.
48. Charles University, Prague, Czech Republic, November 1994.
49. Institut National de Recherche en Informatique et Automatique, Rocquencourt, October 1994.
50. University of Padova, Padova, Italy, 20-21 October 1994.
51. Institute of Mathematics, Warsaw, November 1994.
52. International Conference on Statistics for the 100th Anniversary of J. Neyman's birth, 25-26 November 1994, Jachranka, Poland.
53. 33rd IEEE Conference on Decision and Control, Orlando, 14-16 December 1994.
54. University of Kentucky, Mathematics Department, February 1995.
55. International Conference on Control and Information, Hong Kong, 5-9 June 1995.
56. Third IEEE Mediterranean Symposium on New Directions in Control and Automation, Limassol, Cyprus, 11-13 July 1995.
57. The IFIP Conference on Distributed Parameter Systems, Warsaw, Poland, 17-21 July 1995.
58. Banach Center Symposium on Stochastic Control, Warsaw, 13-25 March 1995. (plenary talk)
59. 3rd SIAM Conference on Control and its Applications, St. Louis, April 1995.
60. AMS-SIAM Summer 1996 Symposium, (plenary speaker).
61. "From a Polish Space to the Land of Oz" - AWM Workshop, Kansas City, July 22, (keynote speaker).
62. The XXV Conference on Applications of Mathematics, Zakopane, Poland, September 1996, (plenary talk).
63. Symposium on Topics in Stochastic Control, Osaka, Japan, December 1996, (plenary talk).

64. The 35th CDC Conference in Kobe, Japan, December 1996 - invited talk and invited session.
65. The American Mathematical Society Meeting, San Diego, January 1997 (panelist in the panel session of the Joint Policy Board for Mathematics).
66. University of Southern California Center for Applied Mathematics and Mathematics Department, February 1997.
67. Wright State University, Mathematics Department, February 1997.
68. Kemper Symposium "Teaching and the Real World", March 1997.
69. University of Michigan, Ann Arbor Engineering School, April 1997.
70. INFORMS Conference, San Diego, May 1997.
71. SIAM's 45th Anniversary Meeting, Stanford, California, July 1997.
72. The 5th IEEE Mediterranean Conference on Control and Automation, Paphos-Cyprus, July 1997.
73. Institute of Mathematics of Polish Academy of Sciences, Warsaw, Poland, July 1997.
74. The 3rd Electrical Engineering Conference CIE97, Mexico City, Mexico, September 1997 (plenary talk).
75. XXVI Conference on Applications of Mathematics, Zakopane, Poland, September 1997 (plenary talk).
76. "A Woman in Control" 1997 Industry Society of Women Engineers Meeting, University of Kansas, September 1997 (keynote speaker).
77. Osaka University, Japan, 15-17 June 1998 (1 hour talk).
78. Conference on Control of Distributed Parameter and Stochastic Systems, 19-22 June 1998, Hangzhou, China (1 hour talk).
79. Mathematical Theory of Networks and Systems, 6-10 July 1998, Padova, Italy.
80. Stochastic Analysis Meeting, 36th Annual Allerton Conf. Communication Control and Computing, 23-25 September 1998.
81. International Conference on Applied Mathematics, 27 Sept. - 2 Oct. 1998, Zakopane, Poland (1 hour talk).
82. IFAC Workshops on Signal Processing, Glasgow, Scotland, 25-27 August (1 hour talk).
83. Conference on Decision and Control, 16-18 December 1998, Tampa, Florida.
84. The NSF Workshop on Control Education, Urbana, Illinois, 2-3 October 1998.
85. Fourth International Joint Meeting of the AMS and the Society Math. Mexico, Texas, May 1999 (1 hour talk).
86. International Conference on Probability Theory, Sept. 1999 (1 hour plenary talk), Naleczow, Poland.
87. VII Mediterranean Conference on Control and Applications, June 1999, Israel.
88. International Conference on Operations Research, July, Germany (1 hour talk).
89. International Conference on Applied Mathematics, Sept. 1999, Zakopane, Poland (1 hour talk).

90. XX International Seminar on Stability Problems for Stochastic Models Lublin-Naleczow, September 1999.
91. The Third World Congress of Nonlinear Analysts, July 2000, Catarina, Italy.
92. Mathematical Theory of Networks and Systems, June 2000, Perpignan, France.
93. International Conference on Applied Mathematics, September 2000, Zakopane, Poland.
94. Optimization Days, May 2000, Montreal, Canada.
95. 39th Control and Decision Conference, Sydney, Australia, December 2000.
96. The Institute of Mathematics of Polish Academy of Sciences, Warsaw, Poland, March 2001.
97. International Conference on Mathematical Finance, Shanghai, China, May 2001.
98. International Workshop on Mathematics of Finance, Poland, June 2001.
99. The IFAC Workshop on Adaptive Control, Combo, Italy, August 2001.
100. XXX Conference on Applied Mathematics, Zakopane, Poland, September 2001.
101. Blueprints 2001, University of Kansas, March 2001.
102. University of Kansas Slavic Department, February 2001.
103. Workshop on Careers in Industry, IAM, Minneapolis, Minnesota.
104. 40th Control and Decision Conference, Orlando, Florida, December 2001.

OTHER CONFERENCES AND PRESENTATIONS:

1. Annual National Conference on Applied Mathematics, Poland, 1974-81.
2. Annual National Meetings of Polish Mathematical Society, Poland, 1972-82.
3. VI International Conference on Mathematical Statistics, Wisla, Poland, December 1978.
4. Twelfth European Meeting of Statisticians, Varna, Bulgaria, September 1979.
5. Fourteenth European Meeting of Statisticians, Wroclaw, Poland, September 1981.
6. 1990 American Control Conference, San Diego.
7. Ninth International Conference, Analysis and Optimization of Systems, Antibes-Juan les Pins-France, 12-15 June, 1990.
8. 2nd World Congress of the Bernoulli Society for Mathematical Statistics and Probability, Uppsala, Sweden, 13-18 August, 1990.
9. "Linear Algebra, Signals, Systems, Control" - SIAM Conference, San Francisco, November 1990.
10. The 29th IEEE Conference on Decision and Control, Honolulu, December 1990.
11. The 30th IEEE Conference on Decision and Control, Brighton, England, December 1991.
12. 1992 American Control Conference, Chicago, Illinois, June, 1992.

13. SIAM Conference on Control and its Applications, Minneapolis, Minnesota, September 1992. (organizer of the session on "Stochastic and Deterministic Adaptive Control of Distributed Parameter System").
14. 31st IEEE Conference on Decision and Control, Tucson, Arizona, December, 1992. (lecture and organizer of the session on "Stochastic Theory-Adaptive Control").
15. 1993 American Control Conference, San Francisco.
16. 1993 World Congress of the International Federation of Automatic Control, Sydney, Australia, July 1993. (invited organizer of the session on "Recent Advances in Stochastic Adaptive Control").
17. 32nd IEEE Conference on Decision and Control, San Antonio, Texas, December, 1993 (2 lectures and organizer of the session on "Stochastic Theory-Adaptive Control").
18. 1994 American Control Conference, June, Baltimore, Maryland.
19. 1994 SIAM Annual Meeting, July, San Diego, California.
20. 1995 SIAM Annual Meeting, October, Charlotte, North Carolina.
21. Conference on Stochastic Differential and Differential Equations, Gyor, Hungary, 21-24 August 1996.
22. 1997 American Control Conference, Albuquerque, New Mexico, June 1997.
23. 1998 American Control Conference, Philadelphia, June 1998.
24. 1999 American Control Conference, San Diego, June 1999.
25. IFAC World Congress, July 1999, Beijing, China.
26. 38th CDC, December 1999, Phoenix, Arizona.
27. 2000 American Control Conference, Chicago, June 2000.
28. The First NSF Workshop for High School Teachers of Math and Science, Chicago, June 2000.

PUBLICATIONS:

A. Mathematical - Journals, Proceedings and Research Monographs.

1. On relations between prediction of a multidimensional autoregressive process and the aggregated autoregressive process, Proceedings of Annual Czech-Polish-Russian Meeting of Econometricians, Poland, 1978, 5-20.
2. The aggregated autoregressive process, Statistical Review 2 (1980), 345-356.
3. On adaptive control, research monograph, Habilitation dissertation, Central School of Planning and Statistics, SGPiS-Publishers, Warsaw, 1986, 184 pages.
4. A parameter estimate associated with the adaptive control of stochastic systems (with Tyrone Duncan), Lecture Notes in Control and Information Sciences, 83, 1986, 508-514.
5. Adaptive control of some continuous time portfolio and consumption models (with Tyrone Duncan), Proc. 26th Conf. on Decision and Control, Los Angeles, 1987, 1657-1659.
6. The rate of convergence and asymptotic distributions for some adaptive control problems (with Tyrone Duncan), Proc. 26th Conf. on Decision and Control, Los Angeles, 1987, 1666-1669.
7. Adaptive control of linear delay time systems (with Tyrone Duncan), Stochastics, 24, 1988, 45-74.

8. On the consistency of a least squares identification procedure (with Petr Mandl and Tyrone Duncan), *Kybernetika*, 24, 1988, 340-346.
9. Some quadratic functionals and self-tuning control (with Petr Mandl and Tyrone Duncan), *Proc. 27th Conference in Decision and Control*, 1988, 1219-1222.
10. Adaptive control of continuous-time linear stochastic systems (with Tyrone Duncan), *Mathematics of Control, Signals and Systems*, 3, 1990, 45-60.
11. Adaptive control of a continuous time portfolio and consumption model (with Tyrone Duncan), *J. Optimization Theory Appl.*, 61, 1989, 47-52.
12. The rate of convergence for an estimator in a portfolio and consumption model (with Tyrone Duncan), *J. Optimization Theory Appl.*, 61, 1989, 53-59.
13. Adaptive control of three continuous time portfolio and consumption models (with Tyrone Duncan), *Optimization Theory Appl.*, 61, 1989, 61-71.
14. The rate of convergence and asymptotic normality of the estimator in a controlled investment model with time-varying parameters, *Lecture Notes on Control and Information Science*, Springer-Verlag, 126, 1989, 266-278.
15. Adaptive control of stochastic systems, *Lecture Notes on Control and Information Science*, Springer-Verlag, 136, 1989, 328-343.
16. Some aspects of the adaptive control of stochastic evolution systems (with T.E. Duncan), *Proc. of 28th Conference on Decision and Control*, 1989, reprinted in *Advances in Adaptive Control*, IEEE Press, 1991, 222-226.
17. Prediction of the aggregated autoregressive process, *Statistical Review* 4, 1990, 281-289.
18. On exponentially discounted adaptive control (with P. Mandl and T.E. Duncan) *Kybernetika* 26, 1990, No. 5, 361-372.
19. Some aspects of the continuity of the stationary Riccati equation in Hilbert space, (with A. Chojnowska-Michalik and T.E. Duncan), *Proc. of 29th Conference on Decision and Control*, 1990, 2321-2326.
20. Adaptive control of linear stochastic evolution systems (with T.E. Duncan and B. Goldys), *Stochastics and Stochastics Reports*, 36, 1991, 71-90.
21. Some Methods for the adaptive control of continuous time linear stochastic systems (with T.E. Duncan), *Lecture Notes on Control and Info. Sci.*, 161, Springer-Verlag, 1991, 242-268.
22. Limit Theorems of Probability Theory and Optimality in Stochastic Evolution Systems, *Proc. of 16th Symposium on Operations Research*, Trier, Germany, 1991, 276-277.
23. On Boundary Control of Unknown Linear Stochastic Distributed Parameter Systems (with T. Duncan, B. Maslowski), *Lecture Notes on Control and Info Sci*, 180, Springer-Verlag, 1991.
24. On stochastic adaptive control, *Ulam Quarterly* Vol. 1, Number 2, 1992, 19-32.
25. Uniform Operator Continuity of the Stationary Riccati Equation in Hilbert Space (with A. Chojnowska-Michalik and T.E. Duncan), *Journal of Applied Math. and Optimiz.*, 25, 1992, 171-187.
26. Asymptotic Distribution of Some Quadratic Functionals of Linear Stochastic Evolution Systems, *J. Optimization Theory Appl.* 75, No. 2, 1992, 389-400.

27. On the Consistency of a Least Squares Identification Procedure in Linear Evolution Systems, *Stochastics and Stochastics Reports*, 39, 1992, 83-94.
28. On Least Squares Estimation in Continuous Time Linear Stochastic Systems (with T. Duncan and P. Mandl), *Kybernetika*, 28, 1992, 169-180.
29. Control Theory Methods for Consistency in some Least Squares Identification Problems (with T. Duncan, P. Mandl) *IEEE Transactions on Automatic Control*, Vol. 38, No. 8, 1993, 1289-1292.
30. Adaptive Boundary and Point Control of Linear Stochastic Distributed Parameter Systems (with T. E. Duncan and B. Maslowski), *SIAM, J. Control Optim.* 32, 1994, 648-672.
31. Almost self-optimizing strategies for the adaptive control of diffusion processes (with T. E. Duncan and L. Stettner), *J. Optimization Theory Appl.* 81, 1994, 479-507.
32. On the ergodic and adaptive control for stochastic differential delay systems (with T. E. Duncan and L. Stettner), *J. Optimization Theory Appl.* 81, 1994, 509-531.
33. Stochastic Adaptive Control for Continuous Time Linear Systems with Quadratic Cost (with H. F. Chen, T. Duncan) to appear in *Journal of Applied Math. and Optimiz.*
34. Continuous Time Adaptive LQG Control (with H. F. Chen, T. Duncan) *Proc. of 31st IEEE Conference on Decision and Control*, Tucson, Arizona, December 1992, 3227-3232.
35. On Statistical Sampling for System Testing (with T. Duncan, P. Mandl) *IEEE Transactions on Automatic Control*, Vol. 39, No. 1, 1994, 118-122.
36. Limit Theorems of Probability Theory and Optimality in Stochastic Evolution Systems, *Journal of Mathematical Systems, Estimation and Control*, Vol. 7, No. 4, 1997, pp. 417-437.
37. Adaptive Boundary Control and Uniform Convergence of Riccati Operators Arising in Hyperbolic Systems (with T. Duncan and I. Lasiecka), *Proc. of the 31st IEEE Conference on Decision and Control*, Tucson, Arizona, December, 1992, 1082-1084.
38. Some aspects of the adaptive boundary and point control of linear distributed parameter systems (with T. Duncan and B. Maslowski), *Proc. of the 31st IEEE Conference on Decision and Control*, Tucson, Arizona, December 1992, 1077-1081.
39. Recent Advances in Stochastic Adaptive Control of Evolution Systems, *Ulam Quarterly*, 3, 1992.
40. Numerical differential and parameter estimation in higher order stochastic systems under discrete observation (with T. Duncan and P. Mandl), *IEEE Transactions on Automatic Control*, 44 (1996), 522-532.
41. Adaptive Stabilization in the Infinite Dimensional Linear System with State-dependent Noise (with A. J. Gao) preprint.
42. Some Aspects of the Adaptive Boundary Control of Stochastic Linear Hyperbolic Systems (with T. Duncan and J. Lasiecka), *Proc. 32nd Conf. on Decision and Control*, San Antonio, 1993, 2430-2434.
43. Some Aspects of the Adaptive Control of a Partially Observed Discrete Time Markov Processes (with T. Duncan and L. Stettner), *Proc. 32nd Conf. on Decision and Control*, San Antonio, 1993, 3523-3526.
44. Adaptive Control of Stochastic Semilinear Systems (with T. Duncan), *Proc. 32nd Conf. on Decision and Control*, San Antonio, 1993, 2419-2423.
45. Adaptive Control of a Partially Observed Discrete Time Markov Process (with T. Duncan and L. Stettner), *Appl. Math. Optim.* 37 (1998), 269-293.
46. On the Identification in Linear Evolution Systems with the Cylindrical Noise, in preparation.

47. On the Identification in Linear Stochastic Distributed Parameter Systems with Boundary Control, in preparation.
48. Adaptive control of aggregated autoregressive processes, preprint.
49. Adaptive control of partially observable stochastic processes (with T. Duncan), in preparation.
50. Adaptive boundary and point control of stochastic linear hyperbolic systems (with I. Lasiecka and T. Duncan), submitted.
51. On Ljung's method for adaptive control of discrete time, linear stochastic systems (with H. F. Chen and T. Duncan), submitted.
52. Adaptive control of some nonlinear stochastic systems (with H. F. Chen and T. Duncan), submitted.
53. An approach to adaptive boundary control of linear stochastic distributed parameter systems (with T. Duncan), Proc. IFAC 1993 World Congress, Sydney, X 181-194.
54. Adaptive boundary control of linear distributed parameter systems described by analytic semigroups (with B. Maslowski and T. Duncan), Appl. Math. Optim. 33 (1996), 107-138.
55. Stochastic Adaptive Control, to appear in IMA Volumes in Mathematics and its Applications, Springer-Verlag.
56. Adaptive Boundary Control with Linear Stochastic Distributed Parameter Systems (with T. Duncan and B. Maslowski) Proc. of 32nd Conf. on Decision and Control, San Antonio, 1993, 369-374.
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115. Parameter identification for some linear systems with fractional Brownian motion (with T. Duncan), to appear in Proc. IFAC 2002 World Congress.
116. A stochastic calculus for fractional Brownian motion in a Hilbert space (with T. Duncan and J. Jakubowski), to appear in Proc. Fifteenth International Symposium on Math. Theory Networks & Systems.
117. Adaptive control of continuous time stochastic systems (with T. Duncan), to appear in J. Adapt. Control Signal Process.

B. Books:

1. (with W. Dubnicki), Lectures on calculus (textbook), SGPiS-Publishers Warsaw, (1976-first ed.), (1979-second ed.), (1981-third ed.), (1984-fourth ed.), 131 pages.
2. Elementary probability theory (textbook), SGPiS-Publishers, Warsaw, (1976-first ed.), (1979-second ed.), (1983-third ed.), 92 pages.
3. On adaptive control, SGPiS-Publishers, Warsaw, 1986.
4. Stochastic Adaptive Control, in preparation.

C. Other Publications - Journals and Proceedings.

1. Teaching mathematics, Studies of the Methodological Center, the Warsaw School of Economist Publishers (WSEP), 24 (1975), 90-100.
2. On mathematics and how to teach mathematics to the students of economics, Studies of the Methodological Center, WSEP, 26 (1976), 84-91.
3. The role of labs and seminars on mathematics for educating economists, Studies of the Methodological Center, WSEP, 30 (1977), 25-32.

4. The role of mathematics in economics, Studies of the Methodological Center, WSEP, 42 (1980), 125-129.
 5. Editor of the collected papers of the Central School of Planning and Statistics Branch of the Polish Mathematical Society, Monograph, Central School of Planning and Statistics (1975), 117 pages.
 6. Editor of the Proceedings of the National Conference on Education of Mathematics at Economic Universities, Studies of the Methodological Center, 42 (1980), 125-225.
 7. Co-Editor of the Proceedings of the First Kansas Workshop on Stochastic Theory-Adaptive Control, Lecture Notes on Control and Info. Science, 184, Springer-Verlag, 1992, 500 pages.
 8. 1996-1999 Editor of the column "Women in Control", the IEEE Control Systems Magazine.
 9. 1998-1999 Editor of the column "Membership Activities", the IEEE Control Systems Magazine.
- D. Research Reports of the Institute of Cybernetics - the Warsaw School of Economics
1. The game on the Markov chain with rewards, 1973, 1-20.
 2. The analysis of multidimensional economic time series, v. 1, 1976, 125-155.
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COURSE DEVELOPMENT:

Math 750 - Stochastic Adaptive Control

RESEARCH INTERESTS:

Currently my research interests are stochastic processes, stochastic adaptive control, stochastic theory, mathematical statistics, the relation between statistics and control theory, mathematics of finance, manufacturing systems control in telecommunication, epilepsy and mathematics education.

CHAIRPERSON ON EXAMINATIONS:

M.A. - J. Guo

Z. Yang

B. Lee

T. Atteberry

J. Murakami

A. Yuen

S. Haas

L. Burke

R. Brown

D. Brannen (in preparation)

M. Wojnowski (in preparation)

Ph.D. - O. Zane

Z. Chen

A. Gao

D. Matache

Y. Zachariou (in preparation)

N. Brewer (in preparation)

Honors Presentations – S. Haas

M. Haug
N. Welch
S. Corder
S. Clark

COURSES TAUGHT:

Probability and Statistics: Math 365, Math 526, Math 627, Math 727

Calculus: Math 115, Math 116, Math 121, Math 122, Honors Calculus, Math 141, Math 142, Math 143

Stochastic Processes: Math 865

Differential Equations: Math 320, Math 321

Stochastic Adaptive Control: Math 750

Statistics of Stochastic Processes, Continuous Time Adaptive Control, Optimization Theory, Operations Research,

Dynamical Systems: Math 796, Math 993

Stochastic Adaptive Control Seminar (weekly): Math 990

Coordinator of Calculus courses: Math 115, Math 121, Math 122

Math 115 (large class)