

CURRICULUM VITAE

**NAME:**

NIKOLAI K. KRIVULIN

PRESENT POSITION:

Associate Professor, Department of Statistical Modeling, Faculty of Mathematics and Mechanics,
St. Petersburg State University

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DATE OF BIRTH:

November 29, 1958

PLACE OF BIRTH:

Ulyanovsk, Russia

EDUCATION:

- D.Sc., Applied Mathematics, St. Petersburg State University, St. Petersburg, Russia, 2010
- Ph.D., Computational Mathematics, St. Petersburg State University, St. Petersburg, Russia, 1990
- M.Sc., Mathematics and Operations Research, St. Petersburg State University, St. Petersburg, Russia, 1983
- St. Petersburg State University of Telecommunications, St. Petersburg, Russia, 1976-1977

EXPERIENCE:

- Associate Professor, Faculty of Mathematics and Mechanics, St. Petersburg State University, 1994-present
- Chairman and Associate Professor, Department of Information Management, School of Management, St. Petersburg State University, 1999-2002
- Postdoctoral Research Fellow, Faculty of Mathematics and Mechanics, St. Petersburg State University, 1992-1994
- Associate Professor (half-time position), Faculty of Mathematics and Mechanics, St. Petersburg State University, 1992-1994
- Visiting Professor of Mathematics, Municipal College of Practical Psychology, St. Petersburg, 1992-1993
- Associate Professor, Faculty of Mathematics and Mechanics, St. Petersburg State University, 1991(fall)
- Assistant Professor, Faculty of Mathematics and Mechanics, St. Petersburg State University, 1987-1991
- Postgraduate Student, Faculty of Mathematics and Mechanics, St. Petersburg State University, 1985-1987
- Software Engineer, Computer Center, St. Petersburg State University, 1983-1985
- Computer Laboratory Assistant, Computer Center, St. Petersburg State University, 1977-1978

HONORS:

- Honorary Diploma for Notable Achievements in Science and Education on the Occasion of the 275th Anniversary of St. Petersburg State University, 1999
- Listings in Who's Who volumes

COURSES TAUGHT:

- Elements of the Queueing Theory (undergraduate course)
- Internet Marketing (retraining course)
- Microcomputer Hardware and Operating System Architecture (introductory course)
- Max-Plus Algebra and Its Applications (postgraduate course)
- Mathematical Software Packages (undergraduate course)
- Computer Simulation Languages (undergraduate course)
- Expert Systems (introductory course)
- Information Technology in Management (MBA course)
- Informatics and Computers in Psychology (introductory course)
- Mathematical Statistics in Psychology (undergraduate course)
- Probability and Statistics in Management Science (retraining course)
- training courses on programming languages and software application development (C, C++)

PhD STUDENTS:

- Milov D.S. Methods of Idempotent Algebra and Analysis in Investigation of Queueing Networks, St. Petersburg State University, 2000

PROGRAMMING SKILLS:

- C, C++
- SAS SCL, SAS/AF
- others, including MPICH, GPSS, CSMP, SPSS

CURRENT AND PAST PROFESSIONAL ACTIVITIES:**Principal Professional Services:**

- Visiting Expert, Business Computing Research Laboratory, G.R. Herberger College of Business, St. Cloud State University, St. Cloud, USA, 2003, 2008
- Visiting Professor, Department of Business Computer Information Systems, G.R. Herberger College of Business, St. Cloud State University, St. Cloud, USA, 2002-2003
- Visiting Scientist, Department of Computer Science, School of Computing, National University of Singapore, Singapore, 2002
- Visiting Professor, Microcomputer Networking Study Group, Department of Statistics, St. Cloud State University, St. Cloud, 2001
- Supervisor, Program "Information Technology in Management", Management Retraining Department, St. Petersburg State University, 2000-2001
- Supervisor, Informatics Programs Division, Mathematics and Informatics Retraining Department, St. Petersburg State University, 1998-1999
- Deputy Dean, (resp. for evening and correspondence courses), Faculty of Mathematics and Mechanics, St. Petersburg State University, 1997-1999

Organization Functions:

- 5th Workshop on Simulation, St. Petersburg State University, St. Petersburg, Russia, 2005, Program Committee, member
- The IEEE International Conference on Networks (ICON2004), Singapore, 2004, Technical Program Committee, member
- 2nd International Workshop "New Models of Business: Managerial Aspects and Enabling Technology", St. Petersburg, Russia, 2002, Program Committee and Organizing Committee, chairman

- International Workshop “New Models of Business: Managerial Aspects and Enabling Technology”, St. Petersburg, Russia, 2001, Program Committee and Organizing Committee, chairman
- 4th St. Petersburg Workshop on Simulation (Simulation 2001), St. Petersburg, Russia, 2001, Program Committee, member
- 4th World Multiconference “Circuits, Systems, Communications and Computers” (CSCC’2000), Athens, Greece, 2000, International Scientific Committee, member
- 3rd International IMACS Multiconference “Circuits, Systems, Communications and Computers” (CSCC’99), Athens, Greece, 1999, International Scientific Committee, member
- 3rd St. Petersburg Workshop on Simulation, St. Petersburg, Russia, 1998, Program Committee, member
- 2nd St. Petersburg Workshop on Mathematical Methods in Stochastic Simulation and Experimental Design, St. Petersburg, Russia, 1996, Program Committee, member
- 1994 International Workshop on Mathematical Methods and Tools in Computer Simulation, St. Petersburg, Russia, Program Committee and Local Organizing Committee, member
- 3rd International Workshop on Model-Oriented Data Analysis (MODA-3), St. Petersburg, Russia, 1992, Local Organizing Committee, member

Others:

- Admission Committee, Faculty of Mathematics and Mechanics, St. Petersburg State University, 1996-1997, member

Affiliations:

- St. Petersburg Mathematical Society, member
- American Mathematical Society, member
- Society for Industrial and Applied Mathematics, member

RESEARCH AREAS:

- Max-plus algebra and idempotent analysis
- Analysis and performance evaluation of queueing systems and networks
- Computer simulation and Monte Carlo methods
- Parallel and distributed computing
- Computer security
- Applied and computational statistics
- Methods of optimization

RESEARCH SUPPORT:

- Principal Investigator, Russian Foundation for Basic Research, Grant #09-01-00808, An Investigation of Solutions of the Generalized Discrete Bellman Equation in Analysis of Generalized Linear Stochastic Dynamical Systems, 2009-present
- Principal Investigator, Russian Foundation for Basic Research, Grant #06-01-00763, An Investigation of the Stochastic Generalized Bellman Equation in Problems of Generalized Linear Systems Analysis, 2006-2007
- Principal Investigator, Russian Foundation for Basic Research, Grant #04-01-00840, An Investigation of the Asymptotic Behaviour of Stochastic Generalized Bellman Equation Solutions and Problems of Queueing System Analysis, 2004-2005
- Principal Investigator, Russian Foundation for Basic Research, Grant #00-01-00760, An Investigation of the Stochastic Generalized Bellman Equation and Its Application to the Analysis of Queueing Systems, 2000-2001
- Investigator, Russian Foundation for Humanities Research, Grant #00-02-00228, Adaptive Approximation Methods in the Analysis and Forecasting of Economic Processes, 2000-2001
- Investigator, Russian Federation Ministry of Education Program “The Universities of Russia”, Grant #4233, Statistical Modeling in Nonlinear Problems and Optimization of Complex Systems, 1998-1999

- Investigator, Russian Foundation for Humanities Research, Grant #97-02-02223, Statistical Methods and Experimental Design in the Analysis of the Market Price Level Under Product Differentiation, 1997-1998
- Investigator, Russian Foundation for Basic Research – German Scientific Research Society, Grant #96-01-00015, Optimal Experimental Design in Regression Analysis and Approximation Problems, 1996-1997
- Investigator, International Sciences Foundation, Grant #NWA000, 1994-1995
- Investigator, State Committee of Russian Federation for Higher Education, Scientific Program “Mathematical Modeling in Science and Engineering”, Grant #MM2.3, Methods of Mathematical Modeling in Performance Evaluation of Computer Systems and Networks, 1992-1993
- Grants from NATO (Belgium, 2003, 2008), USIA and The Eurasia Foundation (USA, 1999-2000), The Royal Society (UK, 1996).

VISITS AND PARTICIPATION IN INTERNATIONAL CONFERENCES:

- Distribution Systems Department (Bild Sales Department), Axel Springer AG, Hamburg, Berlin, Frankfurt, Germany, 2010 (June), 2009 (May, December), 2008 (January, June, September), 2007 (March, July, December), 2006 (March, June, September, December), 2005 (March, June, September, December), 2004 (March-April, June-July, October, December), 2003 (March, May, September, November), 2002 (May, October, December), 2001 (April, June, October, December), 2000 (April, July, November, December), 1999 (April, July, October, December)
- Annual International Workshop on Advances in Methods of Information and Communication Technology, Petrozavodsk, Russia, 2010 (May)
- 6th St. Petersburg Workshop on Simulation, St. Petersburg, Russia, 2009 (June-July)
- 6th Vienna Conference on Mathematical Modelling, Vienna University of Technology, Vienna, Austria, 2009 (February)
- Department of Business Computer Information Systems, G.R. Herberger College of Business, St. Cloud State University, USA, 2008 (April-May), 2003 (January-March, October-November), 2002 (April-May)
- International Congress “Nonlinear Dynamical Analysis”, St. Petersburg, Russia, 2007 (June)
- Institute for Mathematics I (WE 1), Department of Mathematics and Computer Science, Free University of Berlin, Germany, 2004 (June, October), 2002 (May, December), 2000 (November), 1997 (January, June)
- NUS-Russia Forum Under the National University of Singapore Eastern Europe Research Scientists and Students (EERSS) exchange and collaboration program, Ioffe Institute, St. Petersburg, Russia, 2003 (December)
- Department of Computer Science, School of Computing, National University of Singapore, Singapore, 2002 (July-August)
- 2nd International Workshop “New Models of Business: Managerial Aspects and Enabling Technology”, St. Petersburg, Russia, 2002 (June)
- Institute of Management, Innovation and Organization, William Haas School of Business, University of California at Berkeley, USA, 2002 (January), 2000 (March)
- Symposium for Entrepreneurship Educators, Center for Executive Development, William Haas School of Business, University of California at Berkeley, USA, 2002 (January)
- International Workshop “New Models of Business: Managerial Aspects and Enabling Technology”, St. Petersburg, Russia, 2001 (June)
- 4th St. Petersburg Workshop on Simulation, St. Petersburg, Russia, 2001 (June)
- Microcomputer Networking Study Group, Department of Statistics, St. Cloud State University, USA, 2001 (January-March)
- Stockholm School of Economics, Stockholm, Sweden, 2000 (January-February)
- 10th INFORMS Applied Probability Conference, University of Ulm, Germany, 1999 (July)
- NATO Advanced Study Institute on Difference Sets, Sequences and Their Correlation Properties, Bad Windsheim, Germany, 1998 (August)
- 3rd St. Petersburg Workshop on Simulation, St. Petersburg, Russia, 1998 (June-July)

- International Conference on Random Dynamical Systems, University of Bremen, Germany, 1997 (April-May)
- Division of Automatic Control, Department of Electrical Engineering at Linköping University, Sweden, 1997 (January-February)
- International Workshop on Discrete Event Systems, University of Edinburgh, UK, 1996 (August)
- NATO Advanced Study Institute on Nonstandard Analysis and Its Applications, Edinburgh, Scotland, 1996 (June-July)
- 2nd St. Petersburg Workshop on Mathematical Methods in Stochastic Simulation and Experimental Design, St. Petersburg, Russia, 1996 (June)
- NATO Advanced Study Institute “Current Issues and Challenges in the Reliability and Maintenance of Complex Systems”, Antalya, Turkey, 1995 (June)
- The Center for Economic Research (CentER) at Tilburg University, The Netherlands, 1995 (March-April)
- 15th Nordic Conference on Mathematical Statistics, Lund, Sweden, 1994 (August)
- International Workshop on Mathematical Methods and Tools in Computer Simulation, St. Petersburg, Russia, 1994 (May)
- 10th Symposium on Computational Statistics, Neuchâtel, Switzerland, 1992 (August)
- 3rd International Workshop on Model-Oriented Data Analysis, St. Petersburg, Russia, 1992 (May)

BOOKS EDITED:

1. New Models of Business: Managerial Aspects and Enabling Technology. Proc. 2nd Intern. Workshop. St. Petersburg State University, St. Petersburg, Russia, June 26-28, 2002 (Ed. by N.K. Krivulin)
2. New Models of Business: Managerial Aspects and Enabling Technology. Proc. Intern. Workshop. St. Petersburg State University, St. Petersburg, Russia, June 28-29, 2001 (Ed. by N.K. Krivulin)
3. Mathematical Models and Information Technology in Management. St. Petersburg state University, St.Petersburg, 2001 (Ed. by N.K. Krivulin and V.V. Trofimov) (in Russian)

SELECTED LIST OF PUBLICATIONS:

4. Idempotent Algebra Methods for Problems in Modeling and Analysis of Complex Systems. St.Petersburg. St.Petersburg State University, 2009. 256 p. ISBN 978-5-288-04906-4 (in Russian)
5. Calculating the Lyapunov Exponent for Generalized Linear Systems With Exponentially Distributed Elements of the Transition Matrix, Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1, (2009), No.2, 37-46. (in Russian), English transl. in Vestnik St.Petersburg University: Mathematics 42 (2009), No.2, 95-105.
6. Evaluation of Lyapunov Exponent in Generalized Linear Dynamical Models of Queueing Networks, Proc. MATHMOD 09 Vienna Full Papers CD Volume (I.Troch, F.Breitenecker, Eds.). Vienna, ARGESIM, 2009, 706-717.
7. Evaluation of the Growth Rate of the State Vector in a Second-Order Generalized Linear Stochastic System, Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1, (2008), No.1, 38-48. (in Russian), English transl. in Vestnik St.Petersburg University: Mathematics 41 (2008), No.1, 28-38.
8. Average Network Blocking Probabilities for TDM WDM Optical Networks with OTSIs and Without WC (with Y.C. Hwei and P.H. Keng), Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOT'07), 15th Int. Symp., 24-26 Oct. 2007. P. 424-431.
9. On Evaluation of the Blocking Probability in Multiwave Time Division Multiplexing Networks, Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1, (2007), No.4, 73-81. (in Russian), English transl. in Vestnik St.Petersburg University: Mathematics 40 (2007), No.4, 279-286.
10. Evaluation of the Growth Rate of the State Vector in a Generalized Linear Stochastic System, Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1, (2007), No.3, 91-99. (in Russian), English transl. in Vestnik St.Petersburg University: Mathematics 40 (2007), No.3, 224-232.

11. The Growth Rate of State Vector in a Generalized Linear Stochastic System With Symmetric Matrix, *Zapiski Nauchnyh Seminarov POMI*, 341 (2007), 134-141. (in Russian), English transl. in *Journal of Mathematical Sciences* 142 (2007), No.4, 6924-6928.
12. On the Convergence of Matrix Powers of a Generalized Linear Operator in Idempotent Algebra (with I.V. Romanovskii), *Problems in Mathematical Analysis* (N.N. Ural'tseva, Ed.), 34, 2006, 69-77 (in Russian), English transl. in *Journal of Mathematical Sciences* 142 (2007), No.1, 1806-1816.
13. Eigenvalues and Eigenvectors of Matrices in Idempotent Algebra, *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2006), No.2, 29-40. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics* 39 (2006), No.2, 72-83.
14. Solution of Generalized Linear Vector Equations in Idempotent Algebra, *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2006), No.1, 23-36. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics* 39 (2006), No.1, 16-26.
15. On Parallel Implementation of a Discrete Optimization Random Search Algorithm (with Dennis Guster and Charles Hall), *WSEAS Transactions on Computers* 9 (2005), No.7, 1122-1129.
16. Parallel Implementation of a Random Search Procedure: An Experimental Study (with Dennis Guster and Charles Hall), *Proc. 5th WSEAS Intern. Conf. on Simulation, Modeling and Optimization (SMO'05)*, Corfu, Greece, August 17-19, 2005, 347-352.
17. On Evaluation of Bounds on the Mean Growth Rate of the State Vector for the Linear Stochastic Dynamical System in Idempotent Algebra, *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2005), No.2, 45-54. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics* 38 (2005), No.2, 42-51.
18. The Growth Rate of the State Vector in the Generalized Linear Dynamic System With Random Triangular Matrix, *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2005), No.1, 33-38. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics* 38 (2005), No.1, 25-28.
19. Bounds on the State Vector Growth Rate in Stochastic Dynamical Systems, *Proc. 5th St. Petersburg Workshop on Simulation*, St. Petersburg, June 26 – July 2, 2005 (S.M. Ermakov, V.B. Melas, and A.N. Pepelyshev, Eds.), St. Petersburg University, St. Petersburg, 2005, 391-396.
20. A Convergence Theorem for Matrix Powers and Evaluation of the Eigenvalue in Idempotent Algebra, *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2004), No.2, 49-55. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics* 37 (2004), No.2, 38-42.
21. Evaluation of the Mean Growth Rate of the State Vector in the Generalized Linear Dynamic System With Random Matrix, *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2003), No.3, 47-55. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics* 36 (2003), No.3, 41-49.
22. Evaluation of the Mean Cycle Time in Fork-Join Queueing Networks, *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2002), No.3, 27-35. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics* 35 (2002), No.3, 20-26.
23. Algebraic Modeling and Performance Evaluation of Business Processes (with D. Guster), *New Models of Business: Managerial Aspects and Enabling Technology: Proc. 2nd International Workshop*, St. Petersburg State University, St. Petersburg, Russia, June 26-28, 2002 (N.K. Krivulin, Ed.), 212-220.
24. The Information System of Sale Analysis and Delivery Control in Newspaper Industry (with V. Kurotschka), *New Models of Business: Managerial Aspects and Enabling Technology: Proc. 2nd International Workshop*, St. Petersburg State University, St. Petersburg, Russia, June 26-28, 2002 (N.K. Krivulin, Ed.), 228-238.
25. Marketing Research of Price Levels in Differentiated Product Market (with I.V. Gladkikh), *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 8*, (2002), No.8, 129-156. (in Russian)
26. On a Model of Sales of Products With a Short Life-Time (with S.M. Ermakov, V.B. Melas, V.G. Kurotschka), *Mathematical Models and Information Technology in Management* (N.K. Krivulin, V.V. Trofimov, Eds.), St. Petersburg State Univ., St. Petersburg, 2001, 20-24. (in Russian)

27. Algebraic Models of Queueing Networks, *Mathematical Models and Information Technology in Management* (N.K. Krivulin, V.V. Trofimov, Eds.), St. Petersburg State Univ., St. Petersburg, 2001, 25-38. (in Russian)
28. Bounds on the Mean In-process Time for Queueing Networks With Random Topology (with D.S. Milov), *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2001), No.3, 27-31. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics 34* (2001), No.3, 16-19.
29. On Evaluation of the Mean Service Cycle Time in Tandem Queueing Systems (with V.B. Nevzorov), *Applied Statistical Science V* (M. Ahsanullah, J. Kenneyon, S.K. Sarkar, Eds.), Nova Science Publishers, NY, 2001, 145-155.
30. Evaluation of Bounds on Service Cycle Times in Acyclic Fork-Join Queueing Networks, *International Journal of Computing Anticipatory Systems 9* (2001), 94-109.
31. Modeling and Performance Evaluation of Computer Systems Security Operations (with D. Guster), *Simulation 2001, Proc. 4th St. Petersburg Workshop on Simulation* (S.M. Ermakov, Yu.N. Kashtanov and V.B. Melas, Eds.), St. Petersburg, Russia, June 18-22, 2001, St. Petersburg University, St. Petersburg, 233-238.
32. Products of Random Matrices and Queueing System Performance Evaluation, *Simulation 2001, Proc. 4th St. Petersburg Workshop on Simulation* (S.M. Ermakov, Yu.N. Kashtanov and V.B. Melas, Eds.), St. Petersburg, Russia, June 18-22, 2001, St. Petersburg University, St. Petersburg, 304-309.
33. Evaluation of the Mean Interdeparture Time in Tandem Queueing Systems (with V.B. Nevzorov), *Simulation 2001, Proc. 4th St. Petersburg Workshop on Simulation* (S.M. Ermakov, Yu.N. Kashtanov and V.B. Melas, Eds.), St. Petersburg, Russia, June 18-22, 2001, St. Petersburg University, St. Petersburg, 310-315.
34. Bounds on the Mean In-process Time of Queueing Networks (with D.S. Milov), *Vestnik Sankt-Peterburgskogo Universiteta. Ser. 1*, (2001), No.1, 23-30. (in Russian), English transl. in *Vestnik St.Petersburg University: Mathematics 34* (2001), No.1, 17-22.
35. Algebraic Modelling and Performance Evaluation of Acyclic Fork-Join Queueing Networks, *Advances in Stochastic Simulation Methods, Statistics for Industry and Technology* (N. Balakrishnan, V. Melas and S. Ermakov, Eds.), Birkhäuser, Boston, 2000, 63-81.
36. Retail Prices Based Analysis of the Market Price Level Under Product Differentiation (with S.M. Ermakov and I.V. Gladkikh), *Statistical Models and Their Applications in Econometrics and Related Fields* (S.M. Ermakov and Y.N. Kashtanov, Eds.), St. Petersburg State University, St. Petersburg, 1999, 76-89. (in Russian)
37. On a Retail Prices Based Statistical Approach to the Analysis of the Mean Price Level of a Market Under Product Differentiation (with S.M. Ermakov and I.V. Gladkikh), *Problems in Management Science*, 2, St. Petersburg State University, St. Petersburg, 1999, 30-41. (in Russian)
38. An Analysis of the Mean Market Price under Product Differentiation: Some Economical Aspects and Statistical Approaches (with I.V. Gladkikh), *Problems in Management Science*, 1, St. Petersburg, 1998, 140-156. (in Russian)
39. Monotonicity Properties and Simple Bounds on the Mean Cycle Time in Acyclic Fork-Join Queueing Networks, *Recent Advances in Information Science and Technology* (N. Mastorakis, Ed.), World Scientific, Singapore, 1998, 147-152.
40. Monotonicity Properties and Simple Bounds on the Mean Cycle Time in Acyclic Fork-Join Queueing Networks, *Proc. 2nd WSES/IMACS/IEEE Intern. Conf. on Circuits, Systems and Computers (CSC'98)*, Oct. 26-29, 1998, Military Institution of University Education, Hellenic Naval Academy, Piraeus, Greece (N. Mastorakis, Ed.), Vol.2., 831-836.
41. Bounds on Mean Cycle Time in Acyclic Fork-Join Queueing Networks, *Proc. Intern. Workshop on Discrete Event Systems*, Cagliari, Italy, Aug. 26-28, 1998. The Institution of Electrical Engineers, London, 1998, 469-474.
42. Elements of the Queueing Theory (with S.M. Ermakov), St. Petersburg University, St. Petersburg, 1998. (in Russian)
43. Simple Bounds on the Mean Cycle Time in Acyclic Queueing Networks, *Proc. 3rd St. Petersburg Workshop on Simulation*, St. Petersburg, June 28 – July 3, 1998. St. Petersburg University, St. Petersburg, 1998, 331-337.

44. Bounds on the Mean Working Time for Queueing Networks with Random Topology (with D.S. Milov), Proc. 3rd St. Petersburg Workshop on Simulation, St. Petersburg, June 28 – July 3, 1998. St. Petersburg University, St. Petersburg, 1998, 338-339.
45. Max-Plus Algebra Models of Queueing Networks, Proc. Intern. Workshop on Discrete Event Systems WODES'96, University of Edinburgh, UK, August 19-21, 1996. The Institution of Electrical Engineers, London, 1996, 76-81.
46. The Max-Plus Algebra Approach in Modelling of Queueing Networks, Proc. 1996 SCS Summer Computer Simulation Conf. (V. Wayne Ingalls, Joseph Cynamon, and Annie Saylor, Eds.), Portland, OR, July 21-25. The Society for Computer Simulation, 1996, 485-490.
47. An Algebraic Approach in Modelling and Simulation of Queueing Networks, Proc. Circuits, Systems and Computers International Conference (CSCC'96), Piraeus, Greece, July 15-17, 2. Hellenic Naval Academy, 1996, 668-672.
48. An Algebraic Model of Queueing Networks (with D. Milov), Proc. 2nd St. Petersburg Workshop on Mathematical Methods in Stochastic Simulation and Experimental Design, St. Petersburg, June 18-21, 1996 (S.M. Ermakov and V.B. Melas, Eds.), St. Petersburg University, 156-161.
49. Efficient Parallel Algorithms for Tandem Queueing System Simulation (with S.M. Ermakov), Proc. 3rd Beijing International Conference on System Simulation and Scientific Computing, Beijing, China, October 17-19, 1995, Delayed Papers (Xingren Wang et al, Eds.), 8-12.
50. A Max-Algebra Approach to Modeling and Simulation of Tandem Queueing Systems, Mathematical and Computer Modelling 22 (1995), No.3, 25-31.
51. Algebraic Models in Simulation of Tandem Queueing Systems, Proc. 1995 Summer Computer Simulation Conference (Tuncer Ören and Louis G. Birta, Eds.), Simulation Councils, Inc., 1995, 9-14.
52. Unbiased Gradient Estimation in Queueing Networks with Parameter-Dependent Routing, Proc. International Conference on Control and Information 1995 (Wong Wing-Shing, Ed.), The Chinese University Press, Hong Kong, 1995, 351-356.
53. An Algebraic Approach to Modeling and Simulation of Tandem Queueing Systems, Proc. European Simulation Multiconference, Prague, Czech Republic, June 5-7, 1995 (Miroslav Snorek, Milan Sujansky, and Alexander Verbraeck, Eds.), 271-275.
54. Efficient Algorithms for Tandem Queueing System Simulation (with S.M. Ermakov), Applied Mathematics Letters 7 (1994), No.6, 45-49.
55. Recursive Equations Based Models of Queueing Systems, Proc. European Simulation Symposium, Istanbul, Turkey, October 9-12 (Ali R. Kaylan, Axel Lehmann, Tuncer Ören, Eds.), 1994, 252-256.
56. A Recursive Equations Based Representation for the G/G/m Queue, Applied Mathematics Letters 7 (1994), No.3, 73-78.
57. Using Max-Algebra Linear Models in the Representation of Queueing Systems, Proc. 5th SIAM Conf. on Applied Linear Algebra, Snowbird, UT, June 15-18, 1994 (John G. Lewis, Ed.). SIAM, Philadelphia, PA, 155-160.
58. Unbiased Estimates for Gradients of Stochastic Network Performance Measures, Acta Applicandae Mathematicae 33 (1993), 21-43.
59. An Analysis of Gradient Estimates in Stochastic Network Optimization Problems, Proc. 3rd International Workshop on Model-Oriented Data Analysis, Petrodvorets, Russia, May 25-30, 1992 (W.G. Müller, H.P. Wynn and A.A. Zhigljavsky, Eds.). Physica-Verlag, 1993, 227-240.
60. An Analysis of the Least Median of Squares Regression Problem, Proc. 10th Symposium on Computational Statistics, Neuchâtel, Switzerland, August, 1992 (Y. Dodge and J. Whittaker, Eds.), 1, Physica-Verlag, 471-476.
61. Efficient Methods of Queueing Systems Simulation (with S.M. Ermakov and V.B. Melas), Modelling and Simulation 1991, Proc. 1991 European Simulation Multiconf., Copenhagen, Denmark, June 17-19, 1991 (E. Mosekilde, Ed.), 8-20.
62. Optimization of Complex Systems for Simulation Modeling, Vestnik Leningradskogo Universiteta. Ser. 1 (1990), No.8, 100-102. (in Russian), English transl. in Vestnik Leningrad University: Mathematics 23 (1990), No.2, 64-67.