



# Oleksandr (Alexander) G. Kukush

***Date of birth:*** 23 May 1957  
***Citizenship:*** Ukraine

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## **Degrees**

- June 2002**      **Professor of Department of Mathematical Analysis**
- May 1995**      **Doctor of Mechanics & Mathematics Science, Institute of Mathematics of National Academy of Sciences of Ukraine, Kyiv, Thesis "Asymptotic properties of estimators for infinite-dimensional parameters of stochastic processes"**
- May 1982**      **Candidate of Science (Ph.D.), Kyiv Taras Shevchenko State University Thesis "Some problems of the weak convergence of measures on infinite-dimensional spaces" under supervision of Prof. Anatoliy Ya. Dorogovtsev**
- June 1979**      **Master of Sciences Diploma with honour Speciality: Mathematician, Educator Specialization: Mathematical Analysis Kyiv Taras Shevchenko State University, Faculty of Mechanics & Mathematics**

## **Employment**

- 2026 –**      **Leading scientific researcher of Department of Theory of Random Processes, Institute of Mathematics of National Academy of Sciences of Ukraine**
- 2006 –**      **Senior scientific researcher at Institute of Radiation Medicine of Medical Academy of Sciences of Ukraine**
- 1998 – 2023**      **Professor at Taras Shevchenko University of Kyiv, Department of Mathematical Analysis, Faculty of Mechanics & Mathematics**  
**Obligatory courses developed and taught:**
- Mathematics (for students of Economy)**
  - Statistics and Econometrics I**
  - Calculus I and II**
  - Theory of measure and of integral.**

- *Functional analysis and integral equations.*
- *Statistical methods in non-life insurance (CT6) – lectures for actuarial students*

- *Probability theory (practical lessons)*

*Special courses developed and taught:*

- *Errors-in-variables regression models*
- *Nonparametric statistics*
- Theory of optimal strategies in European and American options*
- Spline functions in statistics*
- Stochastic calculus in vector spaces*
- Gaussian measures in Hilbert space*
- Compact sets in spaces of sequences*
- Popular mathematics for schoolchildren*

*2016 – 2022 Senior scientific researcher at Taras Shevchenko National University of Kyiv, Faculty of Mechanics & Mathematics*

*2001-2013, 2017-2022 Senior scientific researcher, National Aviation University, Kyiv*

*2008 – 2011 Visiting Fellow at Faculty of Business and Economics, Katholieke Universiteit Leuven, Belgium*

*2004 – 2005 Visiting Fellow at Faculty of Applied Economics, Katholieke Universiteit Leuven, Belgium*

*2002 Visiting Professor at Department of Applied Economics and Department of Mathematics, Katholieke Universiteit of Leuven, Belgium*

*2001 – 2002 Postdoctoral research fellowship at Department of Electronic Engineering, Katholieke Universiteit Leuven, Belgium*

*2000 Assistant Professor at Institute of Statistics, Ludwig-Maximilian*

*University, Munich, Germany*

*1999 Professor at Academy of Foreign Trade, Kyiv. Developed and taught obligatory course Higher Mathematics*

*1993 – 1998 Associate Professor at Taras Shevchenko University of Kyiv, Department of Mathematical Analysis, Faculty of Mechanics & Mathematics*

*1987 – 1993 Assistant Professor at Taras Shevchenko University of Kyiv, Department of Mathematical Analysis, Faculty of Mechanics & Mathematics*

*1979 – 1987 Senior scientific researcher at Taras Shevchenko University of Kyiv, Faculty of Mechanics & Mathematics*

## ***Management and Administration***

*2020 – 2021 Member of the group of experts for estimation of efficiency of research activity of higher schools, order of Ministry of Education and Science N1111*

*2020 – 2021 Member of the working group organized by NAS of Ukraine on mathematical modelling of problems related to the epidemic of coronavirus SARS-CoV-2 in Ukraine*

## ***Membership in Scientific Organizations***

*1990 – Kyiv Mathematical Society*

*2004 – 2017 International Statistical Institute, elected member*

*1995 – 2002 American Mathematical Society*

*2004 – 2007 European Mathematical Society*

*1995 – 2005 Bernoulli Society for Probability Theory and Mathematical Statistics*

## **Membership in Editorial Boards of Journals**

2026 – Ukrainian Mathematical Journal  
2014 – 2022 Modern Stochastics: Theory & Applications  
2013 – 2022 Theory of Probability and Mathematical Statistics  
1995 – 2021 In the World of Mathematics

## **Scientific Interests**

*Mathematical Statistics*  
*Statistics of Stochastic Processes*  
*Biostatistics*  
*Financial Mathematics*  
*Actuarial Mathematics*  
*Olympiad Mathematics*

## **Seminars organized**

1996 – 2022, 2026 – Head of the scientific seminar "Asymptotic Methods in Statistics" organized at Institute of Mathematics NAS of Ukraine and Faculty of Mechanics & Mathematics, Taras Shevchenko National University of Kyiv, together with Professor R. E. Mayboroda

2026 – Head of a circle on studying Calculus I for 1 year students, together with senior researcher Dr. G. Riabov

## **Supervision experience**

13 doctoral students obtained Ph.D. degree under my supervision

- Borovitska Anna (2005)
- Jönsson Henrik (2005, co-supervisor Professor Dmitrii Silvestrov)
- Chernikov Yuriy (2008)
- Polekha Mariya (2008)
- Malenko Andriy (2009)
- Shklyar Sergiy (2009)
- Gontar Olena (2009)
- Usoltseva Olena (2011)
- Repetatska Halyna (2012)

- *Savchenko Andriy (2015)*
- *Tsaregorodtsev Yaroslav (2018)*
- *Chernova Oksana (2020)*
- *Senko Ivan (2021)*

Doctor degree obtained under my supervision

- *Shklyar Sergiy (2021)*

## ***Awards and Grants***

- 2008**      *The title Honours Official of Education of Ukraine, given by the Ministry of Science and Education of Ukraine*
  
- 2006**      *Taras Shevchenko Award for a cycle of scientific papers, according to decision of Research Council of Taras Shevchenko National University of Kyiv*
  
- 2009**      *Memorable medal in the name of M.M. Bogolubov “For high level of scientific results in mathematical science*
  
- 2017-2018**      *The best lecturer of the Faculty of Mechanics & Mathematics of Taras Shevchenko National University of Kyiv*
  
- 2018**      *Badge “For scientific and educational achievements” from Ministry of Education and Science of Ukraine*
  
- 1997**      *Grant as Soros Associate Professor*
  
- 2020-2022**      *Grant from the National Research Fund of Ukraine*

## **Lectures at International Conferences**

*Plenary lecture* at the conferences:

- International Conference *Modern Stochastics: Theory and Applications IV*, Kyiv, May 2018.
- Stochastic Processes in Abstract Spaces*, Kyiv, October, 2015 (2 talks).
- 3<sup>rd</sup> Conference *Mathematics for Life Sciences*, Rivne, September 2015.
- Humboldt Kolleg *Mathematics and Life Sciences: Possibilities, Interlacements and Limits*, Kyiv, August 2010.
- International conference *Functional Methods in Approximation Theory, Operator Theory, Stochastic Analysis and Statistics-II*, dedicated to the memory of A.Ya. Dorogovtsev, Kyiv, October 2004.
- 6th International Conference on *Applied Informatics*, Eger, Hungary, January 2004,
- Functional Methods in Approximation Theory, Operator Theory, Stochastic Analysis and Statistics*, Kyiv, October 2001.

*Invited lectures* at the conferences:

- Сучасні проблеми медицини сьогодні: роль лікаря в житті суспільства. Сучасні проблеми офтальмології*, Київ, лютий 2021 р.
- Загальні збори НАМН України «Тридцять п'ять років Чорнобильської катастрофи: існуючі та майбутні дослідження радіологічних та медичних наслідків»*, Київ, квітень 2021 р.,
- Науково-практична конференція «Екологічні та гігієнічні проблеми сфери життєдіяльності людини»*, Київ, березень 2022 р.
- International Conference *Modern Stochastics: Theory and Applications V*, Kyiv, June 2021.
- Limit theorems in Probability Theory, Number Theory and Mathematical Statistics*. International workshop in honour of Prof. V.V. Buldygin, Kyiv, October 2016 (2 co-authored talks).
- Baltic-Nordic-Ukrainian Summer School on Survey Statistics, Kyiv, August 2016.

- International Conference on *Probability, Reliability and Stochastic Optimization*, Kyiv, April 2015.
- Workshop *Mathematics for Life Sciences*, Kyiv, September 2012.
- The Barcelona International Conference on Advances in Statistics, Barcelona, Spain, June 2012.
- 58th World Statistics Congress of the International Statistical Institute, Dublin, Ireland, August 2011.
- *Modern Stochastics: Theory and Applications II*, Kyiv, September 2010.
- Workshop *New Trends of Actuarial Research*, Kyiv, November 2008.
- 22<sup>nd</sup> Nordic Conference on Mathematical Statistics, Vilnius, June 2008.
- International Summer School *Insurance and Finance: Science, Practice, and Education*, Foros, Crimea, Ukraine, June 2007.
- Fourth Total Least Squares and Errors-in-Variables Modeling Workshop, Leuven, Belgium, August 2006 (two lectures).
- International Summer School *Insurance and Finance: Science, Practice, and Education*, Foros, Crimea, Ukraine, June 2006.
- International Conference *Modern Stochastics: Theory and Applications*, dedicated to the memory Professor M.I. Yadrenko, Kyiv, June 2006 (two lectures).
- 14<sup>th</sup> International Workshop on *Matrices and Statistics*, Auckland, New Zealand, March-April 2005.
- Conference *Recent Advances in Statistics*, Kanpur, India, January 2005.
- International conference *Functional Methods in Approximation Theory, Operator Theory, Stochastic Analysis and Statistics-II*, dedicated to the memory of A.Ya. Dorogovtsev, Kyiv, October 2004 (two lectures).
- 7<sup>th</sup> International Conference *Computer Data Analysis and Modeling: Robustness and Computer Intensive Methods*, Minsk, September 2004 (two lectures).

- Workshop on *Risk Analysis in Finance and Insurance*, Munich, June 2004.
- International *Gnedenko Conference*, Kyiv, June 2002.
- 6th International School on *Mathematical and Statistical Methods in Economics, Finance and Insurance*, Laspi, Ukraine, September, 2002.
- INTAS workshop *Incomplete Markets and Weather Derivatives*, Berlin, February 2002.
- 3rd International workshop on *TLS and Errors-in-Variables Modeling*, Leuven, Belgium, August 2001 (two lectures).
- Workshop *Risk in Accumulation Products*. New-York, January 1999.

*Contributed lectures* at the conferences:

- International Conference *Stochastic Equations, Limit Theorems and Statistics of Stochastic Processes* dedicated to the 100<sup>th</sup> anniversary of I.I. Gikhman. September 2018.
- International Conference *Modern Stochastics: Theory and Applications. IV* dedicated to the 100<sup>th</sup> anniversary of I.I. Gikhman, Kyiv, May 2018.
- 17<sup>th</sup> International Conference dedicated to the memory of Academician Kravchuk, Kyiv, May 2016.
- Health effects of the Chernobyl accident – 30 years aftermath*, Kyiv, April 2016.
- Differential Equations, Computational Mathematics, Function Theory, and Mathematical Methods of Mechanics*, Kyiv, April 2014.
- 2<sup>nd</sup> EUMLS Conference *Mathematics for Life Sciences*, Olenivka, Ukraine, September 2013.
- International workshop *Limit Theorems in Probability Theory and Asymptotic Statistics*, Uppsala, Sweden, May 2013.
- Modern Stochastics: Theory and Applications III*, Kyiv, September 2012.
- 6<sup>th</sup> Conference in Actuarial Science and Finance in Samos, Greece, June 2010.
- 13<sup>th</sup> International Congress on Insurance: Mathematics and Economics, Istanbul, May 2009.

- Workshop on Long-Range Dependence: from Calculus to Financial Applications, Kyiv, September 2009.
- Ukrainian Mathematical Congress, Kyiv, August 2009.
- International Conference *Stochastic Analysis and Random Dynamics*, Lviv, Ukraine, June 2009.
- 2008 Barcelona Conference on Asymptotic Statistics, Bellaterra, Spain, September 2008.
- International School *Finance, Insurance and Energy Markets – Sustainable Development*, Västerås, Sweden, May 2008.
- 8<sup>th</sup> International Conference *Computer Data Analysis and Modeling: Complex Stochastic Data and Systems*, Minsk, September 2007.
- International Conference *Skorokhod Space 50 Years On*, Kyiv, June 2007.
- Limit theorems and connected topics. Workshop dedicated to 60<sup>th</sup> anniversary of Prof. D.S. Silvestrov, Kyiv, February 2007.
- 2<sup>nd</sup> World Congress *Aviation in the 21<sup>st</sup> Century, Safety in Aviation*, Kyiv, September 2005.
- 25<sup>th</sup> European Meeting of Statisticians, Oslo, July 2005.
- Workshop *Numerical Methods of Statistics*, Prague, August 2004 (two lectures).
- International Conference on *Cybernetics and Information Technologies, Systems and Applications*, Orlando, Florida, USA, July 2004.
- 8th International Vilnius Conference on *Probability Theory and Mathematical Statistics*. Vilnius, Lithuania, June 2002.
- International Conference *Sensors & Systems*, Saint-Petersburg, Russia, June 2002.
- 2001 Taipei International *Quantitative Finance Conference*, Taiwan, Republic of China, July 2001.
- International School on *Mathematical and Statistical Applications in Economics*. Västerås, Sweden, January 2001.
- Conference in Celebration of *Wayne A. Fuller's 70th Birthday*. Ames, Iowa, USA, June 2001.

- German Open Conference on *Probability and Statistics*. Hamburg, March 2000.
- Workshop *Stochastic Methods in Finance, Insurance & Physics*. Munich, September 2000.
- Second International School on Actuarial and Financial Mathematics. Kyiv, June 1999.
- Conference in Balatonlelle, Hungary, on *Limit Theorems in Probability and Statistics*. June-July 1999.
- 20th International Seminar on *Stability Problems for Stochastic Models*. Lublin-Naleczow, September 1999.
- 52nd Session of *International Statistical Institute*. Helsinki, August 1999.
- 3rd Ukrainian-Scandinavian Conference on *Probability Theory and Mathematical Statistics*. Kyiv, June 1999.
- First International School on *Actuarial and Financial Mathematics*. Kyiv, January 1998.
- 7th Vilnius Conference on *Probability Theory* and 22nd *European Meeting of Statisticians*. Vilnius 1998.
- International Colloquium on *Applications of Mathematics* in memoriam Lothar Collatz. Hamburg, 1997.
- 2nd Scandinavian-Ukrainian Conference on *Mathematical Statistics*. Umea, June 1997.
- 6th International Vilnius Conference on *Probability Theory and Mathematical Statistics*. Vilnius 1993.
- International Conference on *Change Points in Random Processes and Fields*. Kyiv 1992.
- 5th International Vilnius Conference on *Probability Theory and Mathematical Statistics*. Vilnius 1989.
- International Conference *Stochastic Optimization*. Kyiv 1984.

*Poster presentations* at the conferences:

- Twenty-five Years after Chernobyl Accident. Safety for the Future*. Kyiv, April 2011.
- International scientific-practical conference *Hygienic Aspects of Radiation Safety Securing of Population*

*Territories with Higher Radiation Level*, Saint-Petersburg, September 2008.

-16th Symposium of IASC on *Computational Statistics*, Prague, August 2004 (two presentations).

-Workshop *Recent Developments and Applications in the Statistical Analysis of Discrete Structures*.

Munich, Germany, October 2001.

-International Symposium *Extreme Value Analysis: Theory and Practice*. Leuven, Belgium,

August 2001.

-International Workshop *Statistics with Deficient Data*. Munich, July 2000.

## ***Participation in the Conference organizing***

***- International Gnedenko Conference, Kyiv, 2002***

***(Session organizer)***

***- International conference Functional Methods in Approximation Theory, Operator Theory, Stochastic Analysis and Statistics-II, dedicated to the memory of A.Ya. Dorogovtsev, Kyiv, 2004***

***(Member of Program Committee)***

***- International conference Modern Stochastics: Theory and Applications, dedicated to the memory of Professor M.I. Yadrenko, Kyiv, 2006***

***- Fourth Total Least Squares and Errors-in-Variables Modeling Workshop, Leuven, Belgium, 2006***

***(Member of Program Committee)***

***- International Conference Modern Stochastics: Theory and Applications II, Kyiv, 2010***

***(Member of Program Committee)***

**- International Conference Modern Stochastics: Theory and Applications III, Kyiv, 2012**

**(Member of Program Committee)**

**- 59<sup>th</sup> World Statistics Congress of the ISI, Hong Kong, 2013**

**(Session organizer)**

**- International Conference on Probability, Reliability and Stochastic Optimization, Kyiv, 2015**

**(Member of Program Committee)**

**- International Conference Stochastic Processes in Abstract Spaces, Kyiv, October, 2015**

**(Member of Program Committee)**

**- International Conference Modern Stochastics: Theory and Applications. IV dedicated to the 100<sup>th</sup> anniversary of I.I. Gikhman, Kyiv, 2018**

**(Member of Program Committee)**

**- International Conference Stochastic Equations, Limit Theorems and Statistics of Stochastic Processes dedicated to the 100<sup>th</sup> anniversary of I.I. Gikhman, Kyiv, 2018**

**(Member of Program Committee)**

**- International Conference Modern Stochastics: Theory and Applications. V, Kyiv, 2021**

**(Member of Program Committee)**

# Publications

## Books:

1.	<b><i>Planimetry. Geometry on plane.</i></b> (Russian) “Alfa”, Minsk, 1998. 593 pp. ISBN 9986-582-54-7  (with A. Nikulin & Yu. Tatarenko)
2.	<b><i>Geometry 7–9. Profound course.</i></b> (Ukrainian) “Perun”, Kyiv, 1999. 270 pp. ISBN 966-569-085-X (with O. Nikulin)
3.	<b><i>Competitions of Young Mathematicians of Ukraine. Year 2003.</i></b> (Ukrainian) “Osnova”, Kharkiv, 2004, 120 pp. ISBN 966-02-0019-6  (with V. Borisova, V. Leifura, I. Mitelman, A. Olenko, and V. Yasinskii)
4.	<b><i>Theory of stochastic processes with applications to Financial Mathematics and Risk Theory.</i></b> Springer, NY, 2009, 380 pp. ISBN 978-0-387-87861-4 (with D. Gusak, A. Kulik, Yu. Mishura, and A. Pilipenko)
5.	<b><i>Radiation risk estimation: based on measurement error models.</i></b> De Gruyter, Berlin, 2017, 238 pp. ISBN 978-3-11-044180-2  (with S. Masiuk, S. Shklyar, M. Chepurny, and I. Likhtarov)
6.	<b><i>Undergraduate Mathematics Competitions (1995-2016): Taras Shevchenko National University of Kyiv.</i></b> Springer, NY, 2017, 228 pp. ISBN 978-3-319-58672-4

## 7. Gaussian Measures in Hilbert Space: Construction and Properties.

ISTE & Wiley, London & Hoboken, 2019, 243 pp.

ISBN 978-1-78630-267-0

**8. Functional Analysis and Operator Theory.** Springer, NY, 2024, 346 pp.

ISBN 978-3-031-56426-0

**9. Problem Book on Probability Theory & Mathematical Statistics.**

(Ukrainian) Published electronically 15.05.2025, 375 pp.

<https://mechmat.knu.ua/wp-content/uploads/2025/05/problem-book-18.pdf> (with V. V. Golomozi, R. E. Maiboroda, Yu. S. Mishura, K. V. Ralchenko, M. V. Kartashov, S.V. Kushnirenko, and G.M. Shevchenko)

**Papers:**

1.	<b>Optimal choice of the regime of observations in a problem of estimating the mean.</b> (Russian). Theory of Probability & Mathematical Statistics, No. 30 (1985). - P. 39-46. (with A. Ya. Dorogovtsev)
2.	<b>Stability theorems for sequences <math>\eta_{n+1} = f(\eta_n, \xi_{n+1})</math> in Banach and metric spaces.</b> (Russian) Theory of Probability & Mathematical Statistics, No. 33 (1986). - P. 47-57.
3.	<b>Asymptotic properties of estimators of nonlinear regression in Hilbert space.</b> (Russian) Theory of Probability & Mathematical Statistics, No. 35 (1987). - P. 25-31. (with A.Ya. Dorogovtsev & N. Zerek)
4.	<b>Weak convergence of an estimator of an infinite-dimensional parameter to a normal distribution.</b> (Russian) Theory of Probability & Mathematical Statistics, No. 37 (1988). - P. 45-51. (with A.Ya. Dorogovtsev & N. Zerek)
5.	<b>Asymptotic behavior of the solution of the Cauchy problem for a stochastic equation of parabolic type.</b> (Russian) Ukrainian Mathematical Journal, 40, No. 2 (1988). - P. 136-142. (with A.Ya. Dorogovtsev)
6.	<b>Rate of convergence of a nonlinear regression estimator in an infinite-dimensional space in a model with dependent errors.</b> (Russian) Theory of Probability & Mathematical Statistics, No. 38 (1989). - P. 83-88.
7.	<b>About the probability of large deviations of an estimator</b>

	<b><i>of a nonlinear regression parameter in Hilbert space.</i></b> (Russian) Theory of Probability & Mathematical Statistics, No. 40 (1989). - P. 51-58.
8.	<b><i>Convergence in distribution of a normalized projective estimate for an infinite-dimensional parameter of linear regression.</i></b> (Russian) Theory of Probability & Mathematical Statistics, No. 48 (1994). - P. 69-75.
9.	<b><i>Asymptotic normality of a projective estimator for an infinite-dimensional parameter of nonlinear regression.</i></b> (Russian) Ukrainian Mathematical Journal, 45, No. 9 (1994). - P. 1348-1359.
10.	<b><i>Bayesian theory of joint resolving, recognition, detection and estimating of the signals.</i></b> Radioelectronics & Communications Systems, 37, No.3 (1994). - P. 35-39. (with V. Kharchenko & G. Kosenko)
11.	<b><i>Convergence of multy-alternative subsequent threshold rule by correlated observations.</i></b> Radioelectronics & Communications Systems, 37, No.5 (1994). - P. 6-10. (with G. Kosenko & V. Kharchenko)
12.	<b><i>Threshold choice in multy-alternative subsequent rule for given mean risk.</i></b> (Radioelectronics & Communications Systems, 39, No.8 (1996). - P. 38-42. (with G. Kosenko & V. Kharchenko)
13.	<b><i>Asymptotic normality of estimators of the signal over observations of its nonlinear integral transformations.</i></b> (Russian) Theory of Stochastic Processes, 18, No.2 (1996). - P. 171-175.
14.	<b><i>Asymptotic properties of a nonparametric intensity estimator of a nonhomogeneous Poisson process.</i></b> (Russian) Cybernetics and Systems Analysis, 32, No.1 (1996). - P. 74-85. (with A. Ya. Dorogovtsev) Scopus
15.	<b><i>Asymptotic normality of the estimator of an infinite-dimensional parameter in the model with a smooth regression function.</i></b> Mathematical Methods of Statistics, 5, No.3 (1996). - P. 343-356. Scopus
16.	<b><i>Asymptotic properties of estimators in nonlinear functional errors-in-variables models with dependent error terms.</i></b> Probability Theory and Its Applications, 1997, 42, No.2 (1997). - P. 430-431. (with I. Fazekas) Scopus
17.	<b><i>Asymptotic properties of an estimator in nonlinear</i></b>

	<b><i>functional errors-in-variables models.</i></b> Computers Math. Appl., 34, No.10. - P. 23-39. (with I. Fazekas) Scopus
18.	<b><i>Consistency of M-estimators constructed by concave weight function.</i></b> (Russian) Theory of Probability & Mathematical Statistics, No. 57 (1998). - P. 11-18. (with B. Vainer)
19.	<b><i>Upper estimate for the decision moment in subsequent threshold multy-alternative decision rule.</i></b> Radioelectronics & Communications Systems, Allerton Press Inc. (USA), 1998, No.12 (1998). - P. 41 - 48. (with G. Kosenko)
20.	<b><i>Summation procedure for the solution of object recognition obtained from radar systems.</i></b> Radioelectronics and Communications Systems, No. 5 (1998). - P. 12-14. (with G. Kosenko)
21.	<b><i>Consistency and inconsistency of the weighted least squares estimator in linear functional errors-in-variables models.</i></b> Theory of Stochastic Processes, 20, No. 4. - P. 172-179. (with Yu. Martsynyuk)
22.	<b><i>Estimation of the error of differential methods for determination of coordinates in sputnik radar system.</i></b> Radioelectronics and Communications Systems, No. 7 (1999). - P. 51-54. (with G. Kosenko & G. Lazarev)
23.	<b><i>Asymptotic properties of estimators in nonlinear functional errors-in-variables with dependent error terms.</i></b> J. Math. Sci., 92, No. 3 (1998). - P. 3890-3895. (with I. Fazekas) Scopus
24.	<b><i>Optimal stopping strategies for American type option with discrete and continuous time.</i></b> Theory of Stochastic Processes, 21, No. 1-2 (1999). - P. 71-79. (with D. Silvestrov)
25.	<b><i>On maximum likelihood estimator in a statistical model of natural catastrophe claims.</i></b> Theory of Stochastic

	Processes, 21, No. 1-2 (1999). - P. 64-70.
26.	<b><i>Asymptotic properties in space and time of an estimator in nonlinear functional errors-in-variables models.</i></b> Random Operators & stochastic Equations, 7, NO. 4 (1999). - P. 379-402. (with I. Fazekas, S. Baran, and J. Lauridsen) Scopus
27.	<b><i>A criterion for the consistency of the least squares estimator for a functional linear model with errors in variables.</i></b> (Russian) Theory of Probability & Mathematical Statistics, No. 60 (1999). - P. 105-112. (with Yu. Martsynyuk)
28.	<b><i>Asymptotic properties of the estimator of intensity of inhomogeneous Poisson process in a combined model.</i></b> (Russian) Theory Prob. Appl., 44, No. 2 (2000). - P. 273-292. Scopus, Q3 (with Yu. Mishura)
29.	<b><i>Recognition of the objects with registration of the main tactical characteristics of radar systems.</i></b> Radioelectronics & Communication Systems, No.1 (2000). - P. 34-41. (with G. Kosenko)
30.	<b><i>On the Rosenthal inequality for mixing fields.</i></b> Ukrainian Math. J., 52, No. 2. - P. 305-318. (with I. Fazekas & T. Tomacs)
31.	<b><i>Infill asymptotics inside increasing domain for the least squares estimator in linear models.</i></b> Statistical Inference for Stochastic Processes, 3, No. 3 (2000). - P. 199-223. (with I. Fazekas) Scopus, Q4
32.	<b><i>Goodness-of-fit test in Nevzorov's model.</i></b> Theory of Stochastic Processes, 23, 7, No. 1-2 (2001). - P. 203-214. (with Yu. Chernikov)
33.	<b><i>Skeleton approximations of optimal stopping strategies for American type options with continuous time.</i></b> Theory of Stochastic Processes, 7, No.1-2, (2001). - P. 215-230. (with D. Silvestrov)
34.	<b><i>On an adaptive estimator of the least contrast in a model with nonlinear functional relations.</i></b> Ukrainian Math. J., 53, No. 9 (2001). - P. 1445-1452. (with S. Zwanzig)

35.	<b>Threshold structure of optimal stopping domains for American type options.</b> Theory of Stochastic Processes, 8, No.1-2, (2002). - P. 169-177. (with H. Jönsson & D. Silvestrov)
36.	<b>Asymptotic properties of the estimator of intensity of inhomogeneous Poisson field.</b> Theory of Probability & Mathematical Statistics, No. 65 (2002). - P. 97-109. (with A. Stepanishcheva)
37.	<b>Consistent fundamental matrix estimator in a quadratic measurement error model arising in motion analysis.</b> Computational Statistics & Data Analysis, 41, No. 1 (2002). - P. 3-18. (with I. Markovsky & S. Van Huffel) Scopus, Q3
38.	<b>Asymptotic efficiency of statistical estimators in a combined Poisson model.</b> Theory of Probability & Mathematical Statistics, No. 68 (2003). - P. 72-85. (with Yu. Mishura)
39.	<b>Consistent estimation in the bilinear multivariate errors-in-variables model.</b> Metrika, 57, No. 3 (2003). - P. 253-285. (with I. Markovsky & S. Van Huffel) Scopus, Q2
40.	<b>The efficiency of adjusted least squares in the linear functional relationship.</b> J. of Multivariate Analysis, 87, No. 2 (2003). - P. 261-274. (with E.-O. Maschke) Scopus, Q2
41.	<b>Goodness-of-fit test in a polynomial errors-in-variables model.</b> Ukrainian Math. J., 56, No. 4 (2004). - P. 527-543. (with C.-L. Cheng)
42.	<b>Consistency of element-wise weighted total least squares estimator in a multivariate errors-in-variables model <math>AX=B</math>.</b> Metrika, 59, No. 1 (2004). - P. 75-97. (with S. Van Huffel) Scopus, Q2
43.	<b>Optimal pricing for American type options with discrete time.</b> Theory of Stochastic Processes, 10, No.1-2, (2004). - P. 72-96. (with D. Silvestrov)
44.	<b>Three estimators for the Poisson regression model with measurement errors.</b> Statistical Papers, 45, No. 3 (2004). - P. 351-368. (with H. Schneeweiss & R. Wolf) Scopus, Q4
45.	<b>On the computation of the structured total least squares estimator.</b> Numerical Linear Algebra with Applications, No. 11 (2004). - P. 591-608. (with I. Markovsky & S. Van Huffel) Scopus, Q2

46.	<b>Consistent least squares fitting of ellipsoids.</b> Numerische Mathematik, 98, No. 1 (2004). - P. 177-194. . (with I. Markovsky & S. Van Huffel) Scopus, Q1
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