VILNIAUS UNIVERSITETAS

MATEMATIKOS IR INFORMATIKOS
FAKULTETAS

VILNIUS UNIVERSITY

FACULTY OF MATHEMATICS
AND INFORMATICS

Research
and
Publications
Report

2005

Naugarduko 24, 03225 Vilnius, Lithuania

Editor: V. Mackevičius

CONTENTS

FACULTY OF MATHEMATICS AND INFORMATICS

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DEPARTMENT OF MATHEMATICAL ANALYSIS*

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Traditionally, the department gives courses in mathematical analysis (calculus) and related subjects. In recent years, the department became more oriented towards applications by offering several courses in actuarial and financial mathematics. The research areas of the department include probability limit theorems in infinite-dimensional spaces, heavy-tailed distributions, time series, econometric models, stochastic analysis, complex-variable function theory.

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Publications. Journals with ISI SC Index – 1; Intern. reviewed journals, books, and ISI proceedings – 1; Lithuanian licensed issues – 1; Other journals and proceedings – 0; Submitted – 4.

DEPARTMENT OF DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS

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Professors of the department give courses on differential equations (ODE and PDE), numerical analysis, optimization methods, applied mathematics, calculus (at the Faculties of Economics, Chemistry, and Natural Sciences), and various more specialized lectures. The main research fields of the department are ordinary and partial differential and integrodifferential equations, their numerical analysis, and applied mathematics.

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DEPARTMENT OF PROBABILITY THEORY AND NUMBER THEORY

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Professors of the department give courses in algebra, number theory, probability theory, discrete mathematics, and various more specialized lectures in the directions mentioned. They also give lectures on calculus at the Faculties of Physics, Economics, and Communications. Their main scientific interests are related to the algebraic, analytic, and probabilistic number theories and combinatorics. A great attention is also paid to neighboring problems of probability theory, to the development of Lithuanian mathematical thought, and to popularization of mathematical sciences.

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J. Šiaulys. Limits laws in probabilistic number theory. Distributions of additive functions with rational argument. The insurance mathematics.
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S. Zamarys. Doctoral student: moments of L-functions.

Publications. Journals with ISI SC Index – 16; Intern. reviewed journals, books, and ISI proceedings – 9; Lithuanian licensed issues – 12; Other journals and proceedings – 5; Submitted – 13.

DEPARTMENT OF MATHEMATICAL STATISTICS

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The main research areas at the department: theoretical and applied mathematical statistics, reliability and survival analysis, stochastic analysis, limit theorems in probability theory and mathematical statistics, operation research, Markov processes, nonlinear dynamics.

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V. Čiočys. Mathematical models of economics.

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J. Kruopis. Mathematical statistics, quality control, and their applications.

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R. Maslovskis. Doctoral student.

R. Paulauskas. Doctoral student.

A. Šukys. System analysis and modeling. Optimization, automatization, and control of complex systems.

J. Turkuvienė. Doctoral student.

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P. Vaitkus. Large-deviation probabilities. Neural networks. Nonlinear time series.

A. Zaikina. Doctoral student.

Publications. Journals with ISI SC Index – 3; Intern. reviewed journals, books, and ISI proceedings – 4; Lithuanian licensed issues – 5; Other journals and proceedings – 2; Submitted – 4.

DEPARTMENT OF COMPUTER SCIENCE

http://www.mif.vu.lt/katedros/cs/Welcome

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The department supervises the education in informatics for the students in bachelor, master, and doctor programs. Research areas: software process, semantics of programs, artificial intelligence, retrieval of logical proofs, real-time systems, converter construction, error-correcting codes.

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Publications. Journals with ISI SC Index – 2; Intern. reviewed journals, books, and ISI proceedings – 4; Lithuanian licensed issues – 8; Other journals and proceedings – 3; Submitted – 3.

DEPARTMENT OF DIDACTICS OF MATHEMATICS

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The department supervises mathematics teachers training. The research areas of the department include the mathematical education at secondary school, college, and university levels.

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Publications. Journals with ISI SC Index – 0; Intern. reviewed journals, books, and ISI proceedings – 0; Lithuanian licensed issues – 4; Other journals and proceedings – 12; Submitted – 0.

DEPARTMENT OF COMPUTER SCIENCE II

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The research areas at the department include methods and applications of nonlinear and computational modeling, computational geometry, methods of computer vision, digital image, speech and signal processing, data structures and algorithms, Internet technology and information systems. The results of research are to be applied to problems of computer software, physics and mathematics, natural sciences, as well as to topics of medicine, linguistics, and social sciences.

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K. Navickis. Intrinsic normalizations of distributions of flags on grassmannians of affine spaces. kazimieras.navickis@mif.vu.lt

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Publications. Journals with ISI SC Index – 4; Intern. reviewed journals, books, and ISI proceedings – 5; Lithuanian licensed issues – 14; Other journals and proceedings – 5; Submitted – 9.

DEPARTMENT OF SOFTWARE ENGINEERING

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The department supervises the software engineering study program. The research areas of the department include software process, software engineering methods, software quality management, information systems modeling, geographic information systems, applied software systems, modeling of physical processes, document archiving, document configuration, semantics of loop programs operating with recurrences, electronic signature.

R. Baronas. Nonlinear diffusion and reaction processes. Methods ensuring data integrity. romas.baronas@maf.vu.lt, http://www.mif.vu.lt/~baronas

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Publications. Journals with ISI SC Index – 0; Intern. reviewed journals, books, and ISI proceedings – 1; Lithuanian licensed issues – 10; Other journals and proceedings – 1; Submitted – 3.

DEPARTMENT OF ECONOMETRIC ANALYSIS

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Research areas of the department include financial mathematics, time series analysis, functional data analysis, limit theorems in probability and their applications to statistics and econometrics, bootstrap and other resampling methods in statistics and econometrics.

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Publications. Journals with ISI SC Index – 4; Intern. reviewed journals, books, and ISI proceedings – 0; Lithuanian licensed issues – 9; Other journals and proceedings – 2; Submitted – 6.

DEPARTMENT OF MATHEMATICAL COMPUTER SCIENCE

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The department was established in 2002 in order to consolidate teaching and research activities in the areas of information theory, cryptography, algorithms, and discrete mathematics. The research focuses on probabilistic analysis of number-theoretical structures, combinatorial statistics, and randomized algorithms.

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M. Bloznelis. Probability limit theorems and combinatorial statistics.
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http://www.mif.vu.lt/katedros/matinf/asm/mb/mba

R. Grigutis. Structure of homogeneous Abelian groups of finite rank.
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http://www.mif.vu.lt/katedros/matinf/asm/gr/gr_a

A. Mačiulis. Mean values and limit theorems for arithmetic functions.
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http://www.mif.vu.lt/katedros/matinf/asm/ma/ma_a

V. Stakėnas. Probabilistic number theory, functions of Farey fractions.
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http://://www.mif.vu.lt/~vytzach/en/index

Publications. Journals with ISI SC Index – 1; Intern. reviewed journals, books, and ISI proceedings – 1; Lithuanian licensed issues – 2; Other journals and proceedings – 1; Submitted – 0.

HABILITATION PROCEDURES

1. **R. Baronas**, Computer simulation and research of nonlinear diffusion and reaction processes in nonhomogeneous media, 2005, Vilnius University (review of research papers presented for the habilitation procedure).
2. D. Jurgaitis, Structure of solutions of first-order degenerate partial differential equation systems, 2005, Vilnius University (review of research papers presented for the habilitation procedure).

DOCTORAL THESES

1. **J. Dabulytė-Bagdonavičienė**, Computer simulation of diffusion and heat processes in nonhomogeneous media. Advisor prof. **F. Ivanauskas**.
2. **V. Garbaliauskienė**, The universality of L-functions of elliptic curves. Advisor prof. **A. Laurinčikas**.
3. **J. Genys**, Limit theorems and joint universality for general Dirichlet series. Advisor prof. **A. Laurinčikas**.
4. **M. Kazakevičiūtė**, Blending of natural quadrics with rational canal surfaces. Advisor doc. **R. Krasauskas**.

PUBLICATIONS

Abbreviations:

LMR	*Lietuvos Matematikos Rinkinys*
LMJ	*Lithuanian Mathematical Journal*[*]
NAMC	*Nonlinear Analysis: Modelling and Control, ISSN 1392–5133* (Vilnius)
ProcFPM	*Proceedings of Scientific Seminar of Faculty of Physics and Mathematics, Šiauliai University*
Voronoi–2005	*Voronoi's Impact on Modern Science.* Book 3: *Proceedings of the Third Voronoi Conference on Analytic Number Theory and Spatial Tessellations, H. Syta et al.* (*Eds.*), *Institute of Mathematics, Kyiv, 2005 (Mathematics and its Applications, Proceedings of the Institute of Mathematics of the National Academy of Sciences of Ukraine,* **55**.*)*
TMRP–2005	*Proceedings VI International Conference Teaching Mathematics: Retrospective and Perspectives, May 13–14, 2005, Vilnius University, Lithuania.*

Articles: Journals with ISI Science Citation Index

1. **V. Bagdonavičius**[**], **A. Bikelis**, and **V. Kazakevičius**, Nonparametric confidence intervals for the number of spares required for a renewable system, Communications in Statistics. Theory and Methods, Philadelphia: Taylor Francis Group 2005, **34**(5), 1203–1212.
2. **M. Bloznelis**, Orthogonal decomposition of symmetric functions defined on random permutations, *Combinatorics, Probability and Computing*, 2005, **14**, 249–268.
3. **V. Bagdonavičius**, M. Nikulin, Statistical analysis of survival and reliability data with multiple crossings of survival functions, *C. R. Acad. Sc. Paris, Ser. I*, 2005, **340**(5), 377–382.

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30. **F. Ivanauskas**, **V. Skakauskas**, and **P. Katauskis**, On the short wave propagation in a medium composed of orthotropic crystals, *X Jubilee Nat. Congr. Theoretical and Applied Mechanics, September 13–16, 2005, Varna*, Abstracts, p. 63.
31. **F. Ivanauskas**, **P. Katauskis**, and **V. Skakauskas**, Modelling of an elastic anisotropic structure, Trakai–2005, Abstracts, p. 51.
32. **F. Ivanauskas**, M. Žalakevičius, **R. Lapinskas**, A. Bukantis, and V. Nedzinskas, The impact of global warming on first spring arrival of short-, middle- and long-distance migrants: a case study in Eastern Baltic region, Conf. Meteorology and Hydrology in Lithuania: Evolution and Perspectives, March 23, 2005,aVilnius, Abstracts, p. 41.
33. **H. Jasiūnas**and **V. Verikaitė**, Lithuanian Mathematical Research Schools, *XIII World Lithuanian Symposium on the Arts and Sciences, Vilnius, 2005 m. June 30–July 4*, Abstracts, p. 224.
34. **R. Kašuba**, How to meet problems: some psychological steps, TMRP–2005, Abstracts, 41–42.
35. B. Kaulakys, M. Alaburda, V. Gontis, **T. Meškauskas**, and J. Ruseckas, Modeling of flows with the power-law spectral densities and power-law distributions of flows intensities, *Conf. Traffic and Granular Flow'05, October 10–12, 2005, Berlin, Germany*, Abstracts, p. 15.
36. **K. Karčiauskas**, Guided subdivision, *SIAM Conf. Geometric Design and Computing, Phoenix, USA, October 31–November 3*.
37. **K. Karčiauskas**, Guided C2 patch flow, *Intern. Conf. Industry Challenges in Geometric Modeling and CAD, March 10–11, 2005, Darmstadt, Germany*.
38. **R. Krasauskas**, Applications of toric surfaces in geometric modeling, *Intern. Conf. Topology, Analysis and Applications to Mathematical Physics, February 14–18, 2005, Moscow, Russia*.
39. **R. Krasauskas**, Bezier patches on canal surfaces, SIAM *Conf. Geometric Design and Computing, October 31–November 3, 2005, Phoenix, USA*.

40. **R. Krasauskas**. Brasil, Angra dos Reis, 2nd Latin American School and Workshop on Polynomial Systems. Talk *Applications of toric varieties to rational surface modeling*. February 28–March 4.
41. **R. Krasauskas**. Norway, Oslo, Workshop *Computational Methods for Algebraic Spline Surfaces II*. Talk *Rational canal surfaces*. September 13–17.
42. **R. Kudžma**, New (old?) approach to differential and integral calculus, TMRP–2005, Abstracts, 44–45.
43. **R. Kudžma**, Algebra-geometry relation in teaching functions and Calculus, *Norma 05, Fourth Nordic Conf. on Mathematics Education, September 2–6, 2005, Trondheim, Norway*.
44. **K. Lapin**, Survey of direct manipulation interfaces, *Proc. Conf. Information Technologies, Kaunas Univ. of Technology, 2005*, 779–785 (in Lithuanian)
45. **R. Laucius**, Free Pascal application possibilities, TMRP–2005, Abstracts, p. 47.
46. **A. Laurinčikas**, Limit theorems for the Hurwitz zeta-function with algebraic irrational parameter, *Intern. Conf. Analytic Methods in Number Theory, Probability Theory and Mathematical Statistics, April 25–29, 2005, St. Petersburg, Russia*, Abstracts, 26–28.
47. **A. Laurinčikas**, The joint distribution of arithmetic functions, *XVII Czech and Slovak Intern. Conf. Number Theory, September 5–10, 2005, Malenovice, Czech Republic*, Abstracts, p. 37.
48. **A. Laurinčikas**, Value distribution of the Riemann zeta-function, *V Intern. Algebraic Conf., July 20–27, 2005, Odessa, Ukraine*, Abstracts, 122–123.
49. **A. Laurinčikas**, Limit theorems for the Mellin transforms of the Riemann zeta-function, *Intern. Conf. Probability and Number Theory 2005 (P&NT 05), June 20–24, Kanazawa, Japan*, Abstracts, 25–26.
50. **A. Laurinčikas**, The joint distribution of the Riemann zeta-function, *Limit Theorems and Zeta-Functions. A Special Week at Nagoya, June 13–17, 2005, Japan*.
51. **A. Laurinčikas**, Prehistory of the Voronoi universality theorem, *Colloq. Value Distribution of Dirichlet Series, 30 years to Voronin's Universality Theorem, Universidad Autonóma de Madrid, December 5–9, 2005*.
52. **A. Laurinčikas**, The joint universality of periodic Hurwitz zeta-functions, ibidem.
53. **R. Macaitienė**, Probabilistic discrete limit theorems for general Dirichlet series, *V Intern. Algebraic Conf., July 20–27, 2005, Odessa, Ukraine*, Abstracts, 131–132.
54. **E. Manstavičius**, Discrete limit laws for additive functions on the symmetric group, *XVII Czech and Slovak Intern. Conf. Number Theory, September 5–10, 2005, Malenovice, Czech Republic*, Abstracts, p. 39.
55. **E. Manstavičius**, Analytic number theory in the symmetric group, *V Intern. Algebraic Conf., July 20–27, 2005, Odessa, Ukraine*, Abstracts, 132–133.
56. **E. Manstavičius**, Influence of probabilistic number theory to combinatorics, *Intern. Conf. Probability and Number Theory 2005 (P&NT 05), June 20–24, Kanazawa, Japan*, Abstracts, 28–29.

57. **E. Manstavičius**, Functional limit theorems on random permutations, *Limit Theorems and Zeta Functions. A Special Week at Nagoya, June 13–17, 2005, Japan*.
58. **J. Norkūnienė**, The law of iterated logarithm for combinatorial selections, *V Intern. Algebraic Conf., July 20–27, 2005, Odessa, Ukraine*, Abstracts, p. 143.
59. **V. Paulauskas**, On some relations between probability and operator theory, *Intern. Conf. Modern Problems and New Trends in Probab. Theory", June 19–26, 2005, Chernovitsi, Ukraine*.
60. **V. Paulauskas**, On the growth of variance of multiindexed autoregression process with unit root, *Intern. Conf. Analytic Methods in Number Theory, Probabability and Statistics, April 25–29, 2005, Petersburg, Russia*.
61. **V. Paulauskas**, On some optimal error estimates in operator-norm approximation of semigroups, *Intern. Conf. Operator Semigroups. Evolution, Equations and Spectral Theory in Math. Physics, October 3–7, 2005, Lumini-Marseille, France*.
62. **V. Paulauskas**, Rates of convergence for sums of linear processes, *Workshop Limit Theorems and Characterization Problems in Statistics and Probabability, December 5–7, 2005, Bielefeld, Germany*.
63. **Š. Repšys** and **V. Skakauskas**, Modelling of population dynamics with maternal care,Trakai–2005, Abstracts, p. 105.
64. **V. Skakauskas**, On the population dynamics with a discrete set of offsprings and child care, Trakai–2005, Abstracts, p. 123.
65. **V. Skakauskas**, A one-sex population dynamics model with a discrete set of offsprings and child care, *Intern. Workshop Diff. Equations in Math. Biology, July 11–13, 2005, Le Havre, France*, Anstracts, p. 49.
66. **V. Skakauskas**, On the population dynamics with child care, *European Conf. Math. Theoret. Biology, July 18–22, 2005, Dresden, Germany*, Abstracts, **2**, p. 95.
67. **V. Skakauskas**, **F. Ivanauskas**, and **P. Katauskis**, On the short wave propagation in a medium composed of orthotropic crystals, *X Jubilee Workshop Transport Phenomena in Two-Phase Flow and V Jubilee Symp. South East European Countries (SEEC), September 10–15, 2005, Sunny Beach Resort, Bulgaria*.
68. **E. Stankus**, Training of mathematics teachers at Vilnius University, TMRP–2005, Abstracts p. 75.
69. **E. Stankus**, About lectures of the short course on algebra and geometry, *Proc. Conf. Mathematics and Mathematics Education-2005, Kaunas Univ. of Technology*.
70. **G. Stepanauskas**, The method of characteristic functions in probabilistic number theory, *II Intern. Conf. Applied Mathematics, August 12–18, 2005, Plodiv, Bulgaria*, Abstracts, p. 259.
71. **J. Šiaulys**, The factorial moments method in probabilistic number theory, ibidem, **2**, p. 252.
72. A. Vaišvila, **V. Bagdonavičius**, and **J. Kruopis**, Classification of kinescopes for quality and reliability improvement, *Proc. Intern. Symp. Business and Industrial Statistics, April 13–16, 2005, Palm Cove, Australia*.

73. **S. Zubė**, Using envelopes of quadratic families of spheres for blending natural quadrics, *Intern. Conf. MEGA 2005* (*Effective Methods of Algebraic Geometry*), *Sardinia, Italy*.

Books, textbooks, lecture notes (in Lithuanian)

1. **A. Apynis**, Game Theory, 120 p., submitted.
2. **A. Apynis**, Methods of Optimization, 200 p., submitted.
3. **G. Bareikis**, Introduction in Discrete Mathematics (texbook), Vilnius, 2005, 144 p. http://www.mif.vu.lt/katedros/matinf/asm/bg/bg.html.
4. **R. Baronas**, Database Management Systems, *TEV*, Vilnius, 2005, 184 p.
5. L. Beghi and **R. Eidukevičius**, Statistics and Computers (in Italian and English), Imprimitur, Padova , Italy, 2005, 145 p.
6. **M. Bloznelis**, Lecture Notes on Probability Theory, 2005, 119 p., submitted.
7. **V. Čyras**, Artifical Intelligence, 2005. http://www.mif.vu.lt/katedros/se/veikla/konspektai-DI-Cyras.zip.
8. **V. Dičiūnas**, Foundations of Algorithm Analysis (Lecture notes), 2005, 106 p. http://www.mif.vu.lt/katedros/cs/Asmen/algoritmu_analize.pdf.
9. **A. Dubickas**, XIX Lithuanian Team Olympiads in Mathematics, *Vilnius University Press*, Vilnius, 2005, 15 p.
10. **E. Gaigalas**, Algebra and Geometry, 2005. http://www.mif.vu.lt/katedros/mmk/gaig./files/algebra1.html.
11. **R. Grigutis**, Algorithms in Algebra and Number Theory, 2005. http://www.mif.vu.lt/katedros/matinf/asm/gr/asta.htm.
12. **R. Kašuba**, Psychological Aspects of Mathematical Problem Solving, 2005, 85 p., submitted.
13. **P. Kasparaitis**, Practical Informatics, 2005. http://www.mif.vu.lt/~pijus/PJ/PraktInf.pdf.
14. **A. Kavaliauskas**, Collection of Mathematical Exercises: Indefinite Integral, Function of Several Variables, Ordinary Differential Equations, Multiple integrals, Number series, *Vilnius University Press*, 2005, 59 p.
15. **V. Kazakevičius**, Analysis of Qualitative Data, 2005, 70 p. http://www.mif.vu.lt/~vytas/kokybin/kokyb.pdf.
16. **V. Kiško**, Computer Architecture (Labaroatory guide), 2005, 117 p. http://www.mif.vu.lt/~viktor/asm/2005/metpriem.pdf.
17. **R. Kudžma**, Mathematical Analysis Problems of Control Works and Exams 2001–2003, 2005, 93 p., submitted.
18. **K. Lapin**, Programming in Pascal and C, Vol. 1–2, 2005. http://www.mif.vu.lt/~moroz/infKonspektai/Prog_I.pdf, http://www.mif.vu.lt/~moroz/infKonspektai/Prog_II.pdf.
19. **R. Levulienė**, Statistics Using SAS, Part 1, 2005, 185 p. http://www.mif.vu.lt/~rutal72.

20. **V. Mackevičius**, Stochastic Analysis, *Vilnius University Press*, 2005, 198 p.
21. **A. Maldeikienė**, Learn To Count Your Money, *Tyto Alba*, Vilnius, 2005, 388 p.
22. **A. Maldeikienė**, Macroeconomics (Lecture notes), 2005.
http://www.mif.vu.lt/~ausra.
23. **S. Narkevičius**, Object-oriented Programming with C^{++}, 2005.
http://www.mif.vu.lt/~saulukas.
24. **G. Skersys** Theory of Error-Correcting Codes (Lecture notes), 2005, 56 p.
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25. **V. Stakėnas**, Stories of Ciphers, *TEV*, Vilnius, 2005, 128 p.
26. **E. Stankus**, Linear Algebra and Geometry, 2005.
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Other publications (in Lithuanian)

1. **A. Apynis**, Systems of Linear Equations, In: *For a Young Mathematician. VI: Problems and Solutions of Lithuanian School of Young Mathematicians 2003–2005*, *Danielius*, Vilnius, 2005, 42–51.
2. **V. Bagdonavičius**, A. Kačerauskienė, and V. Kazilionytė, *Academician Bronius Grigelionis*, *Danielius*, Pasvalys, 2005, 175 p.
3. **V. Čekanavičius** and **A. Elijio**, Analysis of the Results of Progress in International Reading Literacy Study PIRLS 2001 *National Egzamination Centre*, Vilnius, 2005, 35 p.

   A. Elijio, see [3].
4. **H. Jasiūnas** and **V. Verikaitė**, *The councils of the faculties of Vilnius University in which mathematicians defended their theses for scientific degrees in 1948–1990*.
http://www.mif.vu.lt/matinf/savadas/tarybos.htm.
5. **H. Jasiūnas**, Feliksas Ivanauskas: Features of Life and Activities, *Faculty of Mathematics and Informatics of Vilnius University*, 58 p.
6. **R. Kašuba**, Seeking Wonderful Ideas, *Kompiuterija*, 2005, **3**, p. 48.
7. **R. Kašuba**, About Sherlock Holmes and two Chocolate Experts from Lthuania, *Kompiuterija*, 2005, **6**, 48–49.
8. **R. Kašuba**, Gymnastics of Mind, *Kompiuterija*, 2005, **7**, 48–49.
9. **R. Kašuba**, Magic of Problems, *Kompiuterija*, 2005, **8**, 46-47.
10. **R. Kašuba**, Considerations and Weighings, *Kompiuterija*, 2005, **9**, 46–47.
11. **R. Kašuba**, When Basketball Passions are Away, *Kompiuterija*, 2005, **10**, p. 46.
12. **R. Kašuba**, Not Included in a Textbook, *Kompiuterija*, 2005, **12**, p. 49.
13. **J. Kubilius**, Section of Mathematics, In: *Lietuvos mokslų akademijos veikla 2004* (*Activities of Lithuanian Academy of Sciences*), Vilnius, 2005, 42–44).
14. **J. Kubilius**, We will miss him for a long time, In:*The Fate of a Pedestrian Knight. The Time and Personality of Česlovas Kudaba*, 2nd suppl. ed., *Santara*, Kaunas, 2005, 252–256.

15. **V. Stakėnas**, Pascal's Triangle, In: *For a Young Mathematician. VI: Problems and Solutions of Lithuanian School of Young Mathematicians 2003–2005, Danielius*, Vilnius, 2005, 35–41.
16. **V. Verikaitė**, Henrikas Jasiūnas: Features of Life and Activities, *Faculty of Mathematics and Informatics of Vilnius University*, 66 p.

    V. Verikaitė, see [4].

Other lectures and reports

1. **A. Dubickas**, Integer and fractional parts of powers of a number, *University of Genova, Italy, October 5*.
2. **A. Dubickas**, Fractional parts of powers of a number, *University of Pisa, Italy, October 7*.
3. **R. Leipus**, A test for stationarity versus trends and unit roots for a wide class of dependent errors, *Utah State University, March 30*.
4. **R. Leipus**, Stationarity testing, *Utah State University, April 22*.
5. **E. Manstavičius**, Analytic methods in probabilistic combinatorics, *J. W. Goethe University, Frankfurt on Main, December 8*.
6. **E. Manstavičius**, Asymptotic value distribution for additive functions on permutations, *J. W. Goethe University, Frankfurt on Main, December 13*.
7. **E. Manstavičius**, Introduction to the theory of random permutations, *J. W. Goethe University, Frankfurt on Main, November 29*.
8. **E. Manstavičius**, Functional limit theorems for random permutations, *Vilnius Pedagogical University, November 15*.
9. **V. Paulauskas**, On some optimal error estimates in operator-norm approximation of semigroups, *University of Lille, France, April 1*.
10. **V. Paulauskas**, Some results for multi-indexed autoregression models, *University of Lille, France, April 6*.
11. **V. Paulauskas**, On the estimation of the parameters of a spatial AR model, *Technical Univ. of Vienna, Austria, May 19*.
12. **A. Račkauskas**, Off-line testing for a changed segment in the sample variance, *University of Lille, France, November 11*.
13. **E. Stankus**, The survey on projects of mathematics teachers, *Conf. "Science on Stage," Vilnius Teacher Prof. Development Center, December 7*.
14. **E. Stankus**, Random variables and stochastic dependence, *Pasvalys and Panevėžys Teachers Sem., November 25*.
15. **E. Stankus**, Combinatorics, Probability Theory and Statistics in Mathematics a-level, *Alytus Reg. Conf. Math. Teachers, November 19*.
16. **E. Stankus**, Once again on probability theory problems, *Alytus Conf.-Sem. Math. Teachers, August 25*.

SCIENTIFIC CONTACTS

Participation in international projects

1. **R. Baronas**, **S. Dapkūnas**, **V. Diči ūnas K. Lapin**, **A. Mitaši ūnas**, **S. Norgėla**, **S. Ragaišis**, **G. Skersys**, **V. Tumasonis**, **V. Undzėnas**, **R. Vaicekauskas**. EC Structural Funds – EFDF financed project *Establishment of Master Study Programme in Software Engineering*. 2005–2008.
2. **M. Bloznelis**. Nordplus Neighbour Scheme. Nordic-Baltic Network Cooperation within Education and Research. Prof. Daniel Thorburn, Stockholm University; Department of Statistics, Stockholm University; Survey Section of Swedish Statistical Association; Department of Mathmetical Statistics, University of Jyvaskyla; Vilnius University; Institute of Mathematics and Informatics, Vilnius; University of Latvia; Institute of Mathematical Statistics, University of Tartu, Estonia; Nordic Council of Ministers.
3. **F. Ivanauskas**. Project COST No. 529: *Efficient Lighting for the 21st Century*. 2001 03 02–2006 06 07.
4. **F. Ivanauskas**. Project *Instruments and Standart Test Procedures for Laser Beam and Optics Characterization*, Eureka-number EU2359 *Choclab II*. 2000–2005.
5. **A. Juozapavičius**. Wireless Information Management (an international network including Aalborg, Jyvaskula, Uppsala, Trondheim, Vilnius, and Vilnius Technological Universities) financed by NORFA (Nordic Academy of Advanced Studies). 2004–2005.
6. **A. Juozapavičius**. Activity leader. BalticGRID (EC, FPG, Contract No. 026715). 2005-2008.
7. **R. Leipus**, **A. Račkauskas**. NATO Programme for Security through Science NATO grant PST. EAP. CLG 980599 *Detecting changes in time series models*, University of Cologne, Germany, USA, Czechia, Germany, Lithuania.
8. **A. Mitaši ūnas**, G. Noreikis. PHARE-financed special action project *Development and Implementing of the Software Connecting the Ciphering Sub-system into the FRTD System*. 2004–2005.
9. **V. Paulauskas**, M. C. Viano (France). Bilateral Lithuanian-France research program *Gilibert*, project *Random processes and their applications to statistics and econometrics* (Vilnius and Lille Universities).
10. **A. Svirskas**. Consultant for the Scientific Coordination team (Kingston University London) in an EU FP6 STREP project *Collaborative Process Automation Support using Service Level Agreements and Intelligent dynamic Agents in SME clusters* (codename PANDA). 2005–2008.
11. **E. Stankus**. Project *Science on Stage*. Member of National Steering Committee (http://www.pprc.lt/ScienceOnStage/en/nk.asp).
12. **E. Stankus**. The international commission on mathematical instruction (ICMI) representative (http://www.mathunion.org/ICMI/).

13. **A. Svirskas**. An external observer of W3C Web Services Choreography Working Group (http://www.w3.org/2002/ws/chor/) and liaison for the EU FP6 TrustCoM (http://www.eu-trustcom.com/) project.
14. **A. Svirskas**. Collaboration with W3C UK and Ireland Regional Office (http://www.-w3c.rl.ac.uk) and organizing visits of W3C UK key staff to the events held in Lithuania.
15. **V. Tumasonis**. Participation in Unicode Consortium for developing the Unicode Standard.

Visits by staff

1. **V. Bagdonavičius**. Invited professor at Université Victor Segalen (Bordeaux II), France. Research work in reliability theory and survival analysis. Lectures on probability theory, survival analysis, and mathematical statistics. January 1–June 30.
2. **M. Bloznelis**. Bielefeld University, Germany. December 2–11.
3. **M. Bloznelis**. Stockholm University, Sweden. January 12 – February 10.
4. **M. Bloznelis**. Tartu University, Estonia. January 27 – February 3.
5. **L. Būtėnas**. Aalborg University, Denmark. Research visit. March 2–5.
6. **L. Būtėnas**. Tronheim, Norway. *Intern. Conf. VLDB& WIM*. August 28–September 4.
7. **D. Celov**. University of Lille, France, November 21 – 28.
8. **A. Čivilis**. Aalborg University, Denmark. Research visits. March 1–5, June 8–23.
9. **A. Čivilis**. Trondheim, Norway. *Intern. Conf. VLDB& WIM*. August 28 – September 4.
10. **A. Čivilis**. Russia, Moscow. International Computer Science School. September 19–25.
11. **A. Dubickas**. University of Genova, Italy. Research visit. October 1–9.
12. **F. Ivanauskas**. Bulgaria, Sofia. Management Committee and working group meeting of COST-529. June 18–22.
13. **F. Ivanauskas**. Finland, Helsinki, Conference NAMC18, October 27–30.
14. **A. Juozapavičius**. Estonia, Tallinn. *Conference EstGRID*. January 19–23.
15. **A. Juozapavičius**. Trondheim, Norway. *Intern. Conf. VLDB& WIM*. August 28 – September 4.
16. **A. Juozapavičius**. Russia, Moscow. International Computer Science School. September 18–22.
17. **A. Juozapavičius**. Poland, Krakow. *Conference BalticGRID*. Nowember 23–26.
18. **A. Juozapavičius**. Austria, Wien. Workshop *Vienna-Calling*. December 8–10.
19. **R. Krasauskas**. USA, Houston, Rice University. Talk: *Bezier patches on canal surfaces and applications*. March 5–11.
20. **R. Krasauskas**. Germany, Dagstuhl, Seminar *Geometric Modeling*. Talk *Rational rolling ball blends*. May 28 – June 4.

21. **R. Krasauskas**. Houston, Rice University, USA. Talk *Rational canal surfaces and mu-basis*. November 8–9.
22. **E. Kutka**. Aalborg University, Denmark. Research visits. March 2–5, June 8–23.
23. **E. Kutka**. Trondheim, Norway. *Intern. conference VLDB& WIM*. August 28 – September 4.
24. **E. Kutka**. International Computer Science School. Moscow, Russia. September 18–22.
25. **E. Kutka**. Poland, Krakow. *Conference BalticGRID*. Nowember 23–26.
26. **A. Laurinčikas**. Kyiv University, Ukraine. Research visit. September 25–28.
27. **R. Leipus**. University of Utah, Salt Lake City, JAV. *Lectures for students "Multivariate Analysis," "Actuarial Mathematics."* January 1–May 30.
28. **E. Manstavičius**. J. W. Goethe University, Frankfurt on Main, Germany. Research visit. November 20–December 18.
29. **E. Manstavičius**. Geilo, Norvey. The First Spring School on Algorithms. Coordination Boord and Meeting of Nordic Network on Algorithms. March 31–April 04.
30. **A. Mitaši ūnas**. Montpellier II University, France. Software process assessment and improvement. May 27–June 1.
31. **A. Mitaši ūnas**. SynSpace, Zurich. INTACS certified ISO/IEC 15504 (SPICE) Assessor Training. December 11–17.
32. **V. Paulauskas**. University of Lille, France. April 1–6.
33. **V. Paulauskas**. Technische Universität Wien, Austria. May 16–20.
34. **K. Pileckas**. University of Pohang, South Korea. October 26 – Nowember 11.
35. **A. Račkauskas**. University of Lille, France, November 21 – 28.
36. **S. Ragaišis**. ETH Zurich. Concepts of Software Engineering master study programme. December 13–19.
37. **G. Stepanauskas**. Brussels, Belgium. IST Committee meetings. January 24–27, April 18–21, May 31 – June 3, September 20–23, November 29 – December 2.
38. **A. Svirskas**. London Metropolitan University, December 12–14.
39. **V. Tumasonis**. Fontlab, Rome. The development of linguistic fonts: Palemonas, a computer font for Lithuanian philology. November 15–19.
40. **V. Tumasonis**. St. Petersburg University of Information Technologies, Mechanics and Optics. ACM International Collegiate Programming Contest. November 26–December 2.
41. **V. Zacharovas**. Bielefeld University, Germany. March 1–April 24.
42. **V. Zacharovas**. Academia Sinica, Taiwan. July 1–December 31.
43. **D. Zuokas**. University of Lille, France, November 21 – 28.

Foreign visitors

1. Prof. Bero Roos, Hamburg university, Dresden university. September 5–16. ???
2. Prof. Yann Budeaud, Strasbourg Université, France. Research visit. March 28 – April 3. Lecture at the seminar of number theory: *Complexity of algebraic numbers*, March 30.
3. Prof. R. Goldman, Rice University, Houston, TX, USA. Lecture: *Singularities of curves and mu-basis*. July 7–10.
4. Prof. Neininger Ralph, Frankfurt am Main University, Germany. October 5–11.
5. Prof. A. Pakstas. London Metropolitan University, Consultations on curricula and learning materials for the new Master Study programm in Software Engineering and updated Master Study programme in Informatics. October 23–30, December 15–20.
6. Prof. Shigeki Akiyama, Niigata University, Japan. Research visit. March 8–11. Lecture at the seminar of number theory: *Pissot number system and related tillings*. March 9.
7. Dr. Jörn Steuding, Universidad Autonóma de Madrid, Spain. Research visit. March 1 – April 1. Lecture at the seminar of number theory: *On the structure of the Selberg class*, March 29.
8. Profs. Charles Suquet, Lille 1 University, France, May 15–27.
9. Prof. Marie Claude Viano, Lille 1 University, France, May 15–27.

GRANTS, AWARDS

1. **A. Adamonis**, **D. Čiukšys**, **S. Dapkūnas**, **A. Mitašiūnas**, **I. Naujikas**, **S. Ragaišis**. Lithuanian State Science and Studies Foundation grant B-06/2003 to support the research project *Development of Mature Software Process Implementation Methodology and Tools*.
2. **A. Dubickas**, **P. Drungilas**, **R. Garunkštis**, **A. Kačėnas**, **A. Laurinčikas**. Lithuanian State Science and Studies Foundation grant T-16/05 to support the project *Value distribution of special functions*.
3. **A. Dubickas**, **R. Garunkštis**, **A. Kačėnas**, **A. Laurinčikas**, INTAS grant 03-51-5070. *Analytical and combinatorial methods in number theory*. 2005–2007.
4. **A. Dubickas**, **A. Laurinčikas**, **R. Garunkštis**, **R. Macaitienė**, **R. Ivanauskaitė**, **S. Zamarys**. Vilnius University Science Fund grant for the research results in the project *Problems of algebraic and analytic number theory*.
5. L. Giraitis, **R. Leipus**, **D. Surgailis**. Lithuanian Science Award for the joint work *Long range dependence: models and statistical inference*.
6. **F. Ivanauskas**. Lithuanian State Science and Studies Foundation grant C-07/2003 to support the research project *Computer Simulation of the behavior of heterogeneous processes and systems (MODELITA)* (VU MIF, VU ChF, VU MTMI, KTU, VGTU, BchI, MII, FI). 2003–2006.
7. **A. Juozapavičius**. Lithuanian State Science and Studies Foundation grant B-03027/B-01/2003 to support the project *Transport and Public Information Mobile Solutions* (KTU, VU, VGTU). Scientifc advisor R. Plestys (KTU). 2003–2006.

8. **A. Juozapavičius**, Scientific advisor of Lithuanian State Science and Studies Foundation grant No.P-26/05 to support the project *Lithuanian GRID: parallel and distributed computation network*. 2005-2006.
9. **J. Kubilius**, **E. Manstavičius**, and the staff of the Department of Probability Theory and Number Theory. Vilnius University Science Fund grant for the research results in the project *Discrete problems of number theory and combinatorics*.
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APPENDIX

Publications appeared in 2000–2004

Abbreviations:

LMR	*Lietuvos Matematikos Rinkinys*
LMJ	*Lithuanian Mathematical Journal*
NAMC	*Nonlinear Analysis: Modelling and Control, ISSN 1392–5133* (Vilnius)
ProcLMS–2000	Special issue of *Lietuvos Matematikos Rinkinys*, 2000, **40**: *Proceedings of XLI Conference of Lithuanian Mathematical Society, Šiauliai, June 22–23, 2000.*
FDS–2000	*Proceedings of III International Conference "Finite Difference Schemes: Theory and Applications," September 1–4, 2000, Palanga, Lithuania, Eds. R. Čiegis, A. Samarskii, and M. Sapagovas, IMI*, Vilnius, 2000.
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ProcLMS–2004	Special issue of *Lietuvos Matematikos Rinkinys*, 2004, **44**: *Proceedings of XLV Conference of Lithuanian Mathematical Society, June 17–18, 2004, Lithuanian University of Agriculture, Kaunas.*

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VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS FAKULTETAS

VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS AND INFORMATICS

Research and Publications Report 2005
Mokslinis darbas ir publikacijos 2005 m.

Redaktorius V. Mackevičius

Anglų kalba

2006 02 14. 3,9 leidyb. apsk. l. Rinko ir maketavo D. Jonutienė. VU Matematikos ir informatikos fakultetas, Naugarduko 24, 03225 Vilnius. Nemokamai.