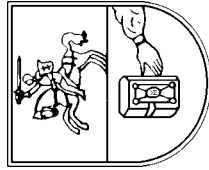


VILNIAUS UNIVERSITETAS

MATEMATIKOS IR INFORMATIKOS

FAKULTETAS



VILNIUS UNIVERSITY

FACULTY OF MATHEMATICS

AND INFORMATICS

Research
and
Publications
Report
2000

Naugarduko 24, 2600 Vilnius, Lithuania

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Traditionally, the department unifies the researchers giving the courses of mathematical analysis (calculus) and related subjects for students of mathematics. In the last years, courses on actuarial and financial mathematics also were taught by the staff of the department. However, their research areas are somewhat different: probability limit theorems in infinite-dimensional spaces, asymptotic analysis of econometric models, stochastic analysis, complex variable function theory.

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THESES FOR DOCTOR HABILITATUS

1. **M. Bloznelis**, Central Limit Theorem in Nonlinear Problems of Mathematical Statistics.

DOCTORAL THESES

1. **R. Baronas**, Computer Simulation of Diffusion Processes in Nonhomogeneous Media. Scientific supervisor prof. F. Ivanauskas.
2. **A. Juozulynas**, On Some Properties of Stable and Related Laws (Limits Theorems with Stable Limit Laws). Scientific supervisor prof. V. Paulauskas.
3. **R. Vaicekaskas**, Numerical Modelling of Propagation of Short Laser Pulses through Nonlinear Passive and Active Media. Scientific supervisor prof. F. Ivanauskas.

PUBLICATIONS

Abbreviations:

<i>LMR</i>	<i>Lietuvos Matematikos Rinkinys</i>
<i>LMJ</i>	<i>Lithuanian Mathematical Journal*</i>
<i>NAMC</i>	<i>Nonlinear Analysis: Modelling and Control, ISSN 1392–5133 (Vilnius)</i>
<i>ProcLMS–2000</i>	Special issue of <i>Lietuvos Matematikos Rinkinys</i> , 2000, 40 : <i>Proceedings of XLI Conference of Lithuanian Mathematical Society, Šiauliai, June 22–23, 2000.</i>
<i>FDS–2000</i>	<i>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.</i>

Appeared in 2000

1. **A. Apynis**, ** **E. Stankus**, and J. Šinkūnas, On seeing-off the first graduates of the Lithuanian school for young mathematicians, *ProcLMS–2000*, p. 207–208 (in Lithuanian).
2. **A. Apynis**, **E. Stankus**, and J. Šinkūnas, On realization of curriculum and problems of the Lithuanian school for young mathematicians, *Proc. Conf. Mathematics and Teaching Mathematics, Kaunas Univ. of Technology, April 6–7, 2000, Technologija*, Kaunas, 2000, p. 10–13 (in Lithuanian). Tezės? ????
3. **V. Bagdonavičius** and M. Nikulin, Semiparametric estimation in the generalized additive-multiplicative model, *J. Math. Sc.*, 2000, **99**(2), p. 1017–1030.
4. **V. Bagdonavičius** and M. Nikulin, Goodness-of-fit Test for the Generalized Additive Risk Models, In: *Asymptotic Methods in Probability and Statistics with Applications (Eds. N. Balakrishnan, I. Ibragimov, and N. Nevzorov)*, Birkhauser, Boston, 2000, p. ??–??. Pustapiai!! ????
5. **V. Bagdonavičius** and M. Nikulin, Modèle statistique de dégradation avec des covariables dépendants du temps (Statistical model of degradation with time dependent covariates), *C. R. Acad. Sci. Paris, Ser. I, Math.*, 2000, **330**(2), p. 131–134.

**Lithuanian Mathematical Journal* is a completely English version (published Kluwer Academic/Plenum Publishers and, until 1997, by Plenum Publishing Corporation) of *Lietuvos Matematikos Rinkinys*; in the latter, articles are in Russian (about 60%), in English (40%), and, episodically, in French and German.

**Boldface print is used for emphasizing the names of the faculty members.

6. **V. Bagdonavičius** and M. Nikulin, On goodness-of-fit for the linear transformation and frailty models, *Stat. Probab. Lett.*, 2000, **47**(2), p. 177–188.
7. **V. Bagdonavičius** and M. Nikulin, On nonparametric estimation in accelerated experiments with step-stresses, *Statistics*, 2000, **33**(4), p. 349–365.
8. **V. Bagdonavičius** and M. Nikulin, Semiparametric estimation in accelerated life testing, In: *Recent Advances in Reliability Theory. Methodology, Practice and Inference* (Eds. N. Limnios and M. Nikulin), 2000, *Birkhauser*, Boston, p. 405–418.
9. **V. Bagdonavičius** and M. Nikulin, Expériences accélérées: analyse statistique du modèle standard de vie accélérée, *Revue de Statistique Appliquée*, 2000, **48**(3), p. 5–38.
10. **G. Bareikis**, An analogue of the Kubilius inequality for the polynomial semigroup, *ProcLMS-2000*, p. 11–17 (in Lithuanian).
11. **R. Baronas**, **F. Ivanauskas**, and A. Survila, Simulation of electrochemical behavior of partially blocked electrodes under linear potential sweep conditions, *J. Math. Chemistry*, 2000, **27**(4), p. 267–278.
12. **R. Baronas** and **F. Ivanauskas**, The influence of the diffusion space geometry on behavior of a biosensor, *Proc. XIII Nordic Sem. Comput. Mechanics (NSCM-13), Oslo, October 20–21, 2000*, (Eds. J. Hellesland, H. Osnes, and G. Skeie), *Mech. Appl. Math. Series*, 2000, **7** Matematisk Institutt, Oslo, p. 233–236. Tezės? (plg. ten pat Ivanauskas–Meskauskas) ????
13. **R. Baronas**, **F. Ivanauskas**, J. Kulys, M. Sapagovas, and A. Survila, The influence of diffusion space geometry on behavior of some processes in biochemistry and electrochemistry, *NAMC*, 2000, **5**, p. 3–38.
14. **R. Baronas**, **F. Ivanauskas**, and M. Sapagovas, Numerical investigation of moisture movement in wood during drying, *FDS-2000*, p. 11–22.
15. **A. Bastys**, Translation invariance of orthogonal multiresolution analyses of $L^2(R)$, *Appl. Comput. Harmonic Analysis*, 2000, **9**, p. 128–145. analysis? ????
16. V. Bentkus, **A. Juozulynas**, and **V. Paulauskas**, Bounds for stable measures of convex shells and stable approximations, *Ann. Probab.*, 2000, **28**(3), p. 1–19.
17. R. Blake and **A. Juozapavičius**, Quality of colour image segmentation: the measures, *NAMC*, 2000, **5**, p. 53–66.
18. **M. Bloznelis** and F. Götze, An Edgeworth expansion for finite population U -statistics, *Bernoulli*, 2000, **6**, p. 729–760.

19. **M. Bloznelis**, One- and two-term Edgeworth expansions for finite population sample mean. Exact results. I, *LMR*, 2000, **40**(3), p. 277–294; *LMJ*, 2000, **40**(3), p. 213–227.
20. **M. Bloznelis**, One- and two-term Edgeworth expansions for finite population sample mean. Exact results. II *LMR*, 2000, **40**(4); p. 430–443; *LMJ*, 2000, **40**(4), p. 329–340.
21. **M. Bloznelis** and **V. Paulauskas**, Central limit theorem in $D[0, 1]$, *Skorokhod's Ideas in Probability Theory (Eds. V. Korolyuk, N. Portenko, and H. Syta)*, *Mathematics and its Applications, Proc. Institute of Mathematics of the National Academy of Sciences of Ukraine*, Kyiv, 2000, **32**, p. 99–110.
22. I. Blužaitė, J. Blužas, G. Jurelevičienė, S. Kaminskienė, A. Matiuka, R. Ruseckas, R. Širvytė, **E. Povilonis**, M. Tamošiūnaite, and G. Urbanavičienė, Sudden death prediction based on heart rate variability and electrical cardiac axis position, *Lith. J. Cardiology*, 2000, **7**, No. 3, p. ??–??.
Puslapiai! In Lithuanian? ????
23. J. Blužas, L. Gargasas, A. Vainoras, S. Korsakas, A. Kirmonas, R. Ruseckas, V. Miškinis, I. Blužaitė, G. Urbanavičienė, R. Vaišnys, J. Šimkevičius, M. Tamošiūnaitė, **A. Bastys**, **T. Meškauskas**, and A. Matiukas, Medicine and electronics: hearts and integrated circuits, *Elektronika ir Elektrotechnika*, 2000, **2**(25), p. 54–63. in Lithuanian? ????
24. F. Coquet, **V. Mackevičius**, and J. Mémin, Some examples and counterexamples of convergence of σ -algebras and filtrations, *LMR*, 2000, **40**(3), p. 295–306 (in French); *LMJ*, 2000, **40**(3), p. 228–235.
25. **V. Čekanavičius**, Remarks on estimates in total variation metric, *LMR*, 2000, **40**(1), p. 1–16 (in Russian); *LMJ*, 2000, **40**(1), p. 1–13.
26. **V. Čekanavičius** and **J. Kruopis**, Signed Poisson approximation: a possible alternative to normal and Poisson laws, *Bernoulli*, 2000, **6**(4), p. 591–606.
27. **R. Čiegis**, **V. Starikovičius**, and J. Wasniewski, Performance prediction tool for parallel Gaussian elimination algorithm, *FDS-2000*, p. 29–38.
28. **R. Čiegis**, **V. Starikovičius**, and A. Volkas, A mathematical modeling of the wood drying, *ProcLMS-2000*, p. 343–349 (in Lithuanian).
29. **R. Čiegis**, **V. Starikovičius**, and J. Wasniewski, On the efficiency of scheduling algorithms for parallel Gaussian elimination with communication delays, *Lect. Notes Comp. Sc.*, 2000, **1947**, *PARA2000, The Fifth Workshop on Applied Parallel Computing (Eds. T. Strevik, F. Manne, R. Moe, and A. H. Gebremedhin)*, p. 75–82.

30. **D. Čiukšys**, **A. Mitašiūnas**, and **S. Ragaišis**, Model of reports based information system. Databases and Information Systems, *Proc. IV IEEE Intern. Baltic Workshop, Technika*, Vilnius, 2000, **2**, p. 160–167.
31. **V. Čyras** and **K. Lapin**, Various perspectives of automatic configuration of structured graphical documents, *Machine Graphics and Vision*, 2000, **9**(1–2), p. 57–80.
32. **V. Dagienė** and O. Kurasova, Modelling: the basic concepts, *Informatika*, Vilnius, **1**(35), 2000, p. 102–112.
33. **S. Dapkūnas** and **A. Mitašiūnas**, Information system for complaints' investigation, *Proc. Conf. Integrated Systems for Design and Manufacturing*, Kaunas, 2000, p. 42–46.
34. **S. Dapkūnas** and **A. Mitašiūnas**, Experience in development of information system for complaints' investigation, *Proc. Conf. Information Technology' 2000, Kaunas Univ. of Technology, Technologija*, Kaunas, 2000, p. 7–9.
35. Yu. Davydov, **V. Paulauskas**, and **A. Račkauskas**, More on p -stable convex sets in Banach spaces, *J. Theoret. Probab.*, 2000, **13**(1), p. 39–64.
36. A. Dement'ev, R. Navakas, and **R. Vaicekauskas**, Modelling of generation dynamics of passively and actively Q -switched solid-state lasers, *Math. Modelling Analysis, Technika*, Vilnius, 2000, **5**, p. 32–43.
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21. **J. Kruopis**, Approximation of sums of random vectors by Poisson type measures.
22. **J. Kubilius**, Several formulas of classical type. VII.
23. **R. Kudžma**, Semiotics in mathematical education.
24. **A. Laurinčikas**, Zeta-functions.
25. **A. Laurinčikas**, On the periodic zeta-function.
26. **A. Laurinčikas**, On the mean square of the Lerch zeta-function with respect to the parameter.
27. **A. Laurinčikas**, On Sprindjuk's works in *Lietuvos Matematikos Rinkinys*.
28. **R. Leipus**, Hurst effect under presence of trend.
29. **A. Mačiulis**, Nonuniform estimate in the limit theorem for additive functions.
30. **E. Manstavičius** and R. Skrabutėnas, An analytic problem for combinatorial structures.
31. **E. Manstavičius**, On the frequency of multisets without some components.
32. **H. Markšaitis**, The inverse Galois problem.
33. **M. Mikalauskas** and **A. Bikelis**, Yu. V. Prokhorov's problem for Markov chains.
34. **G. Misevičius**, Uniform distribution of four-dimensional torus.
35. **F. Mišeikis**, The trimming method in generalized summation of independent random vectors.
36. **K. Navickis**, Geometry of distribution of flags on the Grassmann manifolds of the affine space. I.
37. **V. Paulauskas**, Covariational expressions of finitely divisible laws and large deviation probabilities.
38. **A. Plikusas**, Large deviation probabilities for finite population statistics.
39. **A. Račkauskas**, Invariance principle for selfnormalized sums.
40. **V. Skakauskas**, On the population dynamics models with child care.
41. **V. Stakėnas**, Sequences of natural numbers uniformly distributed in the residue classes.
42. **E. Stankus**, On analytic continuation of the Euler products.
43. **G. Stepanauskas**, The mean values of products of multiplicative functions.
44. **J. Šiaulyš**, On the limit distributions of a sequence of additive functions. distribution? ????

45. **R. Šleževičienė**, A joint limit theorem for the Riemann zeta-function in the space of analytic functions.
46. **A. Šukys**, Application of mathematical experiments with system models in hypothesis testing.
47. **P. Vaitkus**, Lagrange type distributions.
48. **P. Vaitkus**, Prediction of the number of sunspots by SIFAR.

Other conference reports

49. **A. Apynis**, **E. Stankus**, and J. Šinkūnas, On realization of curriculum and problems of Lithuanian school for young mathematicians, *Proc. Conf. Mathematics and Teaching Mathematics, Kaunas Univ. of Technology, April 6–7, 2000, Kaunas*, p. 10–13.
50. **V. Bagdonavičius** and M. Nikulin, Estimation in degradation models with covariates modelled by a gamma process, *II Intern. Conf. Mathematical Methods in Reliability, July 5–8, 2000, Bordeaux, France, Abstracts*, p. 150–153 (invited lecture).
51. **V. Bagdonavičius**, Goodness-of-fit in accelerated life testing, *Intern. Workshop Goodness-of-fit Tests and Validity of Models, June 29–31, 2000, Paris, France* (invited plenary lecture).
52. **V. Bagdonavičius** and M. Nikulin, Theory of accelerated experiments, *Intern. Conf. “Mathematics and 21st Century,” January 15–20, Cairo, Abstracts*, p. 122–125, (invited lecture).
53. **V. Bagdonavičius** and M. Nikulin, On goodness-of-fit for cumulative exposure, *II Intern. Conf. Math. Methods in Reliability, July 5–8, 2000, Bordeaux, France, Abstracts*, p. 146–149.
54. **V. Bagdonavičius**, **A. Bikelis**, and **V. Kazakevičius**, Modelling and estimating the influence of degradation on the intensity of traumatic events, *II Intern. Conf. Math. Methods in Reliability, July 5–8, 2000, Bordeaux, France, Abstracts*, p. 142–145.
55. **A. Bastys**, J. Blužas, A. Matiukas, **T. Meškauskas**, **E. Povilonis**, M. Tamošiūnaitė, G. Urbonavičienė, and R. Vaišnys, New approaches for ECG analysis and their ability to predict risk of sudden cardiac death, *EuroConference BIOSIGNAL 2000, Brno, Czech Republic*.
56. **R. Baronas**, Mathematical modelling of microreactors, *Perspectives in Basic Sciences, March 22–23, 2000, Vilnius, Lithuania*.
57. **R. Baronas**, **F. Ivanauskas**, and M. Sapagovas, Influence of specimen geometry on moisture movement in wood drying, *Math. Modelling*

- Analysis, Abstracts of V Intern. Conf. MMA2000, June 8–9, 2000, Jurmala*, p. 6.
58. **R. Baronas**, **F. Ivanauskas**, and A. Survila, Influence of insulation layer on electrochemical behaviour of partially blocked electrodes, *Math. Modelling Analysis, Abstracts of V Intern. Conf. MMA2000, June 8–9, 2000, Jurmala*, p. 7.
 59. **R. Baronas**, **F. Ivanauskas**, J. Kulys, and A. Survila, The influence of diffusion space geometry in modelling of some diffusion processes in biochemistry and electrochemistry, *FDS–2000, Abstracts*, p. 3.
 60. **R. Baronas**, **F. Ivanauskas**, and M. Sapagovas, Numerical investigation of moisture movement in wood during drying, *FDS–2000, Abstracts*, p. 4.
 61. **M. Bloznelis**, Jackknife estimators of asymptotically normal combinatorial statistics, *V Intern. Conf.: Probabilistic Methods in Discrete Mathematics, June 2–6, 2000, Petrozavodsk, Obozrenie Prikladnoi i Promyshlennoi Matematiki*, 2000, **7**(1), p. 163.
 62. **R. Čiegis**, A. Dement'ev, **F. Ivanauskas**, V. Girdauskas, V. Lasys, R. Navakas, P. Rate, **R. Vaicekuskas**, and O. Vrublevskaya, Modelling of changes of pulse propagation factors in nonlinear optical processes, *V Intern. Conf. Laser Beam and Optics Characterisation (LBOC5), March 20–25, 2000, Erice, Italy, Programme and Abstracts*, p. 17.
 63. **A. Dubickas**, The Remak height: conjugate algebraic numbers on two circles, *Conf. Diophantine Approximation, April 9–15, 2000, Oberwolfach, Germany*.
 64. **A. Dubickas**, Totally real algebraic integers in small intervals, *III European Congress of Mathematics, July 10–14, 2000, Barcelona, Spain*.
 65. **A. Dubickas**, Lehmer constants for an annulus, *Intern. Conf. "Transcendental numbers," September 18–22, 2000, Moscow State Univ., Moscow, Russia*.
 66. **R. Garunkštis**, On the zero distributions of Lerch zeta-functions, *Colloq. Number theory in honor of the 60th anniversary of Professors Kálmán Györy and András Sárközy, Debrecen, July 3–7, Univ. of Debrecen, Inst. of Mathematics and Informatics*, p. 12–13.
 67. **B. Grigelionis**, On Meixner diffusion, *XII Winter School on Stochastic Processes, Siegmundsborg, February 27–March 4, 2000, Abstracts*, p. 3.
 68. **B. Grigelionis**, On Markov statistical manifolds, *Intern. Conf. "Statistics: Reflections on the past and visions of the future," San Antonio, March 16–19, 2000, Program and Abstracts*, p. 31.

69. **J. Ignatavičiūtė**, A discrete limit theorem for the Lerch zeta-function, *III Lith. Conf. of Young Scientists "Lithuania without science – Lithuania without future," April 27, 2000, Vilnius.*
70. **F. Ivanauskas** and **M. Radžiūnas**, On splitting finite difference schemes for nonlinear evolutionary type equations, *FDS-2000, Abstracts*, p. 23.
71. **F. Ivanauskas** and **T. Meškauskas**, On numerical algorithms for derivative nonlinear Schrödinger equation, *FDS-2000, Abstracts*, p. 22.
72. **F. Ivanauskas** and **T. Meškauskas**, On numerical algorithms for derivative nonlinear Schrödinger equation, *XIII Nordic Sem. Computational Mechanics (NSCM-13), October 20–21, 2000, Oslo, Mech. Appl. Math. Series (Eds. J. Hellesland, H. Osnes, and G. Skeie), Matematisk Institutt, Oslo, 2000, 7*, p. 145–146.
73. **A. Juozapavičius**, Temporal properties in object modeling, *IV IEEE Intern. Baltic Workshop, May 1–5, 2000, Vilnius.*
74. M. Jurgutis and **G. Murauskas**, UNIX crypt authentication in Vilnius University information system, *Proc. Conf. EUNIS 2000 Towards Virtual Universities, Poznan, Poland*, p. 127–128.
75. **R. Kačinskaitė**, A discrete limit theorem for the Matsumoto zeta-function on the complex plane, *III Lith. Conf. Young Scientists "Lithuania without science – Lithuania without future," April 27, 2000, Vilnius.*
76. **R. Kačinskaitė** and **A. Laurinčikas**, A discrete limit theorem for the Matsumoto zeta-function on the complex plane, *VIII Intern. Sc. Kravchuk Conf., May 11–14, 2000, Kyiv, Abstracts, Kyiv*, p. 292–293.
77. **K. Karčiauskas**, Biangle surface patches, *V Intern. Conf. "Mathematical Methods for Curves and Surfaces," Oslo, Norway, June 29–July 4, 2000.*
78. **A. Laurinčikas**, On value-distribution of zeta-functions associated with certain cusp forms, *Colloq. Number theory in honor of the 60th anniversary of Professors Kálmán Györy and András Sárközy, Debrecen, July 3–7, Univ. of Debrecen, Inst. of Mathematics and Informatics.*
79. **R. Leipus**, Long memory modelling in financial time series, *Conf. "Mathematical Methods in Finance and Econometrics," June 27–29, 2000, Minsk.*
80. **E. Manstavičius**, Interaction between probabilistic number theory and probabilistic combinatorics, *Workshop on the Interface of Probability Theory and Number Theory, Univ. of Illinois, May 19–20, 2000, Abstracts*, p. 2 (invited lecture).

81. **G. Misevičius**, On large deviations for a sum of type $\sum f(T^j t)$ for unbounded functions, *Colloq. Number theory in honor of the 60th anniversary of Professors Kálmán Györy and András Sárközy, Debrecen, July 3–7, Univ. of Debrecen, Inst. of Mathematics and Informatics*, p. 28–29.
82. **V. Paulauskas**, On the convergence in variation of series representation of multivariate stable laws, *V Southeastern Probability Days Conf., March 31–April 1, 2000, Atlanta, USA*.
83. **A. Plikusas**, Exponential inequalities for some statistics under the moment condition, *Baltic-Nordic Workshop on Survey Sampling Theory and Methodology, June 18–22, 2000, Parnu, Estonia*.
84. **A. Račkauskas**, Invariance principle for selfnormalized sums, *Colloq. Théorèmes Limites en Statistique et Probabilités, March 29–31, 2000, Lille, France*, p. 37–38.
85. **J. Sakalauskaitė, A. Svirskas**, and D. Guster, Application of component-based development, enterprise Java and modern computer networking for creation of virtual classrooms, *The Midwest Instruction and Computing Symp. (MICS 2000), St. Paul Campus, Univ. of Minnesota, April 13–15, 2000, St. Paul, Minnesota*.
<http://www.micsymposium.org/mics2000.htm>
86. **J. Sakalauskaitė and A. Svirskas**, Development of distributed systems with JAVA and CORBA – issues and solutions, *IV IEEE Interna. Baltic Workshop on DB and IS (BalticDB & IS'2000), May 1–5, 2000, Vilnius Gediminas Technical Univ.*
<http://www.science.mii.lt/balticdb&is/>
87. **V. Skakauskas**, Two population dynamics models with child care, *Math. Modelling Analysis, Abstracts of V Intern. Conf. MMA2000, June 8–9, 2000, Jurmala*, p. 36.
88. **G. Stepanauskas**, Correlation of multiplicative functions, *Colloq. Number theory in honor of the 60th anniversary of Professors Kálmán Györy and András Sárközy, Debrecen, July 3–7, Univ. of Debrecen, Inst. of Mathematics and Informatics*.
89. **R. Šleževičienė**, Joint limit theorems for the Riemann zeta-function, *III Lith. Conf. Young Scientists “Lithuania without science – Lithuania without future,” April 27, 2000, Vilnius*.
90. **A. Šukys**, Importance of statistics and modelling developing information society in Lithuania, *Intern. Conf. Sustainable Development in the Information Society, October 2–4, 2000, Vilnius*.

Books, textbooks, lecture notes (Lithuanian)

1. **A. Apynis** and **E. Stankus**, Applied Mathematics (a textbook for college students), *VVK*, Vilnius, 2000, 445 p.
2. J. Bagdonienė, J. Knyvienė, A. Kuzmarskienė, **A. Plikusas**, K. Pulmanas, and J. Šinkūnas, Mathematics 9 (Parts I and II), *TEV*, Vilnius, 2000.
3. **V. Čekanavičius** and **G. Murauskas**, Statistics with Applications I, 2000, *TEV*, Vilnius, 2000, 239 p.
4. **V. Dagienė** and G. Grigas, The Problembook on Elements of Programming (a textbook for comprehensive schools), *TEV*, Vilnius, 2000, 278 p.
5. **V. Dagienė**, The Elements of Informatics. Grades 9–10, Part 4: Information Technology, *TEV*, Vilnius, 2000, to appear.
arba "2000", arba "to appear"! ????
6. **R. Garunkštis**, **A. Kačėnas**, and **A. Laurinčikas**, The Lerch Zeta-function, *Faculty of Mathematics and Informatics, Vilnius University*, Vilnius, 2000, 142 p.
7. **P. Golokvosčius**, Differential Equations, *TEV*, Vilnius, 2000, 511 p.
8. **R. Grigutis**, Lecture Notes on Fields.
<http://www.mif.vu.lt/ttsk/bylos/gr/algebra2.htm>
9. **R. Grigutis**, Finite Algebraic Structures (lecture notes, exercises, exams).
<http://www.mif.vu.lt/ttsk/bylos/gr/dm.htm>
10. **R. Grigutis**, Algebra (lecture notes, exercises, exams).
<http://www.mif.vu.lt/ttsk/bylos/gr/algebra.htm>
11. **R. Lapinskas**, Elementary Methods of Econometry (lecture notes), 117 p.
<http://www.mif.vu.lt/ttsk/home.html>
12. **V. Mackevičius**, Spectral Theory of Operators (lecture notes).
<http://www.mif.vu.lt/vigirdas>
13. **E. Misevičius**, Mathematical Analysis, Part II, to appear.

Other publications*

Abbreviation:

$\alpha + \omega$ *Journal of Mathematics and Informatics: Alpha plus Omega, Ed. V. Stakėnas, 2000.*

1. **A. Apynis, E. Stankus, J. Šinkūnas**, The first Certificates of Lithuanian school for young mathematicians are presented, $\alpha + \omega$, **1**(9), p. 65–67.
2. **V. Čiočys**, Articles *Dynamic programming, Polynomial, Decimal fraction, Differential calculus, Variable, Manifold, Determinant, Double integral*, In: *Universal Lithuanian Encyclopedia*, Vilnius, 2000.
3. **V. Dagienė**, The solution of the map-colouring problem by computer, $\alpha + \omega$, **1**(), p. 77–82.
4. G. Grigas and **V. Tumasonis**, A new Lithuanian keyboard standard, *Informacijos mokslai*, 2000, **14**, p. 105–112.
5. **H. Jasiūnas**, The 40th anniversary of the Department of Probability theory and Number theory of Vilnius University, *Mokslas ir technika*, 2000, **10**, p. 39.
6. **R. Kašuba**, Funny mathematical stories, *Kompiuterija*, 2000, **1**(29), p. 58.
7. **R. Kašuba**, Again into the jungles of numbers, *Kompiuterija*, 2000, **2**(30), p. 50.
8. **R. Kašuba**, About the resoluteness of our readers and the capacity of their computers, *Kompiuterija*, 2000, **3**, p. 50.
9. **R. Kašuba**, Clever people are to be met not only in the Cangourou land, *Kompiuterija*, 2000, **4**, p. 44.
10. **R. Kašuba**, News and reports from the 49th olympiad for young Lithuanian mathematicians, $\alpha + \omega$, **1**(9), p. 8–11.
11. **R. Kašuba**, Mathematical tournaments of the young mathematicians, $\alpha + \omega$, **2**(10), p. ??–??. Pustlapiai! ????
12. **R. Kašuba**, Tadas Blinda and the logic, *Kompiuterija*, 2000, **7**, p. 44.
13. **R. Kašuba**, The music of numbers, *Kompiuterija*, 2000, **8**(36), p. 50.
14. **R. Kašuba**, The mathematical computerics and computerical mathematics, *Kompiuterija*, 2000, **11**, p. 44–45.
15. **J. Kubilius**, The 40th anniversary of the Department of Probability theory and Number theory, $\alpha + \omega$, **2**(10), p. 63–67.

* Lithuanian, unless indicated otherwise.

16. **J. Kubilius**, Academicians about an academician (about R. Rajeckas), In: *Adolfas Paulius, Gyvenimo atspindžiai, Algarvė*, Vilnius, 2000, p. 268–270.
17. **A. Laurinčikas**, Dirichlet polynomial, In: *Encyclopedia of Mathematics*, Supplement II, *Kluwer Academic Publishers*, Dordrecht, 2000, p. 61 (in English).
18. **E. Manstavičius**, Trees and woods: not forestry but combinatorics, $\alpha + \omega$, **2**(10), p. 39–48.
19. **E. Manstavičius**, Forty years to the Department of Probability theory and Number theory of Vilnius University, *Universitas Vilnensis*, 2000, **9**, p. 6.
20. **A. Mitašiūnas**, On research priorities in informatics. System of High Education and Information Society. Explanatory letter. Note for LR Ministry of Education and Science, 2000. Ar laiškas – publikacija? ????
21. **A. Mitašiūnas** and **V. Undžėnas**, Electronic signature law of the Republic of Lithuania (draft), 2000.
<http://www.vrsrm.lt/ta/ta.all.htm>
22. **A. Račkauskas**. Mathematics on the Internet, $\alpha + \omega$, **1**(9), p. 83–85.
23. **A. Račkauskas**. Visit the Mathematical Forum, $\alpha + \omega$, **2**(10), p. 95–97.
24. **V. Stakėnas**, Four colours, and the world is multicoloured, $\alpha + \omega$, **1**(9), p. 36–44.
25. **V. Stakėnas**, A problem concerning the angles of a star, $\alpha + \omega$, **2**(10), p. 80–84.
26. **E. Stankus**, Divisibility of integers (a methodical paper and problems for young mathematicians), 2000. <http://www.maf.vu.lt/ljmm/>
27. **G. Stepanauskas**, Numeration systems, $\alpha + \omega$, **2**(10), p. 30–38.

Other lectures and reports

1. **R. Baronas**, **J. Dabulytė**, **F. Ivanauskas**, **A. Survila**, Modelling of the electrodynamic behavior of microelectrodes, *The Workshop “Nonlinear Processes”, the Faculty of Mathematics and Computer Science, Vilnius University, May 30*.
2. **R. Baronas**, **F. Ivanauskas**, **R. Perevičiūtė**, Dynamics of the timber-drying, *The Workshop “Nonlinear Processes”, the Faculty of Mathematics and Computer Science, Vilnius University, May 30*.
3. **A. Bastys**, Computer-aided electrocardiogram analysis, *Meeting of UNESCO Associated Centres in Basic Science, March 22*.

4. **M. Bloznelis**, Orthogonal decomposition of finite population statistics and its applications to distributional asymptotics CWI, *Amsterdam, The Netherlands, January 14*.
5. **M. Bloznelis**, Orthogonal decomposition of combinatorial statistics, *Lille Technical University, Lille, France, November 12*.
6. **A. Dubickas**, On heights of algebraic number, *Bielefeld University, Germany, May 9*.
7. **A. Dubickas**, Some problems for polynomials of small measure, *University of Glasgow, Glasgow, UK, October 26*.
8. **A. Dubickas**, Some heights of algebraic numbers, *North of England Algebraic number theory group seminar, NoMaDS (Nottingham, Manchester, Durham, Sheffield), Sheffield, UK, November 4*.
9. **F. Ivanauskas**, On convergence of difference schemes nonlinear Schrödinger equation, Kuramoto-Tsuzuki equation and reaction-diffusion type systems, *Seminar of mathematical physics, Greifswald university, Germany, June 26*.
10. **F. Ivanauskas, A. Juozapavičius**, The impact of global warming upon arrival of birds and modelling of white stork population in Lithuania, *Colloquium of Biomathematics, Greifswald University, Germany, June 27*.
11. **F. Ivanauskas, R. Baronas**, The influence of diffusion space geometry in modelling of some diffusion processes in biochemistry and electrochemistry, *Seminar of analytical methods in Biomathematics, Greifswald university, Germany, June 29*.
12. **F. Ivanauskas**, Applications of the diffusion-model in biochemistry and electrochemistry, *The Workshop "Nonlinear Processes", the Faculty of Mathematics and Computer Science, Vilnius University, May 30*.
13. **A. Juozapavičius**, Symbolic Methods in Computer Vision, *Seminar of Computer Science, NTNU, Norway*.
Data? ????
14. **R. Kudžma**, Actuarial education in Lithuania, *The Fourth International Professional Meeting of Leaders of the Actuarial Profession of Central and Eastern Europe, September 30–October 2, 2000, University of Economic Sciences, Budapest*.
15. **R. Krasauskas**, Toric Surfaces in Geometric Modeling, *Dresden TU, Geometry Seminar, April 4*.
16. **R. Krasauskas**, Topological Aspects in Computer Aided Geometric Design, *Geometry Workshop, Greifswald University, September 30–31*.
17. **R. Krasauskas**, 3D graphics in Internet, *The Workshop "Nonlinear Processes", Faculty of Mathematics and Computer Science, Vilnius*

University, May 30.

18. **R. Krasauskas**, Mathematics and computer science: understanding new possibilities of information technologies, *Meeting of UNESCO Associated Centres in Basic Science, March 22*.
19. **R. Kudžma**, Greimas's semiotics and education, *Roskilde University, Danmark, May 12*.
20. **E. Manstavičius**, From probabilistic number theory to probabilistic combinatorics, *Johann Wolfgang Goethe-Universität Frankfurt am Main, January 10*.
21. **E. Manstavičius**, Analytic methods in combinatorics, *Johann Wolfgang Goethe-Universität Frankfurt am Main, January 17*.
22. **E. Manstavičius**, Probabilistic problems of mappings on finite sets, *Johann Wolfgang Goethe-Universität Frankfurt am Main, January 27*.
23. **E. Manstavičius**, Analytische Methoden für kombinatorische Strukturen, *Universität – Gesamthochschule Paderborn, April 13*.
24. **E. Manstavičius**, Distribution problems related to divisors, *Vienna, Technical University, Institute of Mathematics, October 17*.
25. **E. Manstavičius**, Distribution of decomposable mappings on combinatorial structures, *Loeben, Mountain University, Institute of Mathematics, October 23*.
26. **A. Mitašiūnas**, Informatics at Vilnius University, *Department of Computer Science and Information Engineering, Tamkang University, China, June 8*.
27. **V. Paulauskas**, On random convex compact sets in Banach spaces, *Georgia Institute of Technology, Atlanta, January 27*.
28. **V. Paulauskas**, On random convex compact sets in Banach spaces, *University of Tennessee, Knoxville, March 6*.
29. **V. Paulauskas**, The Hausdorff dimension of p -Cantor sets on line, *Georgia Institute of Technology, Atlanta, October 3*.
30. **M. Pelanis**, Modeling of moving points in databases, *The Workshop "Nonlinear Processes", the Faculty of Mathematics and Computer Science, Vilnius University, May 30*.
31. **A. Račkauskas**, Adaptive choice of bootstrap sample sizes, *Lille university. Data? ????*
32. **A. Račkauskas**, Large deviations behavior for quadratic errors of density estimators, *Lille university, November 14*.
33. **G. Stepanauskas**, Correlation of multiplicative functions, *Universität-Gesamthochschule Paderborn, June 6*.

34. **R. Šleževičienė**, A joint limit theorems for the Riemann zeta-function, *Johann Wolfgang Goethe-Universität Frankfurt am Main, Germany*, November 21.

SCIENTIFIC CONTACTS

Participation in international projects

1. **A. Mitašiūnas, S. Ragaišis**. Participants of the project proposal consortium *A framework for collaborative e-business for SMEs in the Baltic Sea Region* for FP5 IST programme. (Involvement of the Faculty of Mathematics and Informatics of Vilnius University is 176700 euro.)
2. **F. Ivanauskas**. Socrates: the joint project of Greifswald and Vilnius universities. Greifswald university, Germany. June 26–July 4.
3. **G. Stepanauskas**. European ERASMUS program. Visit to Universität-Gesamthochschule Paderborn, May 23–June 17.

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 and mathematical statistics. January 1–July 7.
2. **M. Bloznelis**. Research visits to Bielefeld University, Germany, January 3–31, November 3–December 2. Short visit to CWI, Amstredam, The Netherlands, January 12–15. Short visit to Lille Technical University, France, November 14–15.
3. **A. Dubickas**. Bielefeld University, April 26–July 1. Edinburg University, October 11–November 9.
4. **R. Eidukevičius**. Visiting professor in university of Paduva, Italy. Lecture course *Applications of Computers in Biology*. January 1–29.
5. **A. Juozapavičius**. Visiting professor at Norwegian University of Science and Technology, Trondheim, Norway. Research in computer graphics and computer vision. Lecture courses *Computer Graphics II* and *Pattern Recognition* (the latter for doctoral students). January–July.
6. **A. Juozulynas**. SFB 343, Bielefeld University. Universality of the spectrum in random matrices. August 4–30.
7. **R. Krasauskas**. Greifswald University, March 30–April 1. Dresden TU, April 2–4.

8. **R. Kudžma**. Roskilde Business College. Seminars on group projects and lectures on semiotics. May 7–14 (Socrates/Erasmus).
Gal perkelti į *Participation in intern. projects?* ????
9. **E. Manstavičius**. Johann Wolfgang Goethe–Universität, Frankfurt am Main, January 3–February 2. Universität-Gesamthochschule, Paderborn, April 5–14. University of Illinois, Urbana-Champaign, May 17–28. Research visit to Technische Universität Wien, October 2–8. Research visit to Technische Universität Graz, October 8–November 1.
10. **V. Paulauskas**. Visiting professor at Georgia Institute of Technology. Two courses per semester, both on Probability and statistics. Research in coloboration with R. Shonkwiler and Ch. Houdre. January–December.
11. **G. Skersys**. Institut National de Recherche en Informatique et Automatique (INRIA), France. Error-correcting codes. December 2000–January 2001.
12. **A. Mitašiūnas**. Tamkang University, Republic of China. June 5–15.
13. **A. Račkauskas**. Université de Lille 1. March 6–April 3, November 1–29.
14. **R. Šleževičienė**, Research visit to Johann Wolfgang Goethe–Universität, Frankfurt am Main. November 15–December 2.

Foreign visitors

1. Prof. A. Barashkov, Moscow Power Engineering University. November 27–30. Paskaita? ????
2. Prof. H. McKean (Canada). Lecture: Geometry of differential space: a hands on view of Wiener measure providing some hints about the Brownian calculus of Malliavin and Stroock. November 20.
3. Prof. Charles Suquet and prof. Marie Claude Viano, Université de Lille 1 (CNRS project). September 1–15.
4. Dr. Jörn Steuding, J. W. Goethe–Universität, Frankfurt am Main. Research visits: August 25–September 15, October 5–13, December 22, 2000–January 6, 2001. Reports in the seminar of number theory: Dirichlet series with periodic coefficients; On the value distribution of Hurwitz zeta-functions at the nontrivial zeros of the Riemann zeta-function; Zeros of derivatives.
5. Prof. W. Schmidt, Greifswald University. May 19–24. Paskaita? ????
6. Prof. Jacek Wanewski, Institute of Biocybernetic and Biomedical Engineering. Lecture: On the cancer dynamics. Kada? ????

GRANTS

1. **M. Bloznelis**. Alexander von Humbolt fellowship *Asymptotics of symmetric finite population statistics*.
2. **A. Dubickas**. A grant for visiting III European Congress of Mathematics in Barselona.
3. **A. Dubickas**. A grant from C.I.M.E. (International Mathematical Summer Center) to visit instructional conference *Diophantine Approximation*, June 28–July 6, in Cetraro (Calabria), Italy.
4. **A. Dubickas**. INTAS–RFBR grant IR-97-1904 to visit the international conference *Transcendental Numbers*, September 16–23, Moscow State University, Russia.
5. **A. Dubickas**. A grant from the London Mathematical Society to visit Edinburgh University, UK, October 11–November 9.
6. **F. Ivanauskas**. *Instruments and Standart Test Procedures for Laser Beam and Optics Characterisation*, Eureka-number EU2359 *Choclab II*, 2000–2002.
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13. **G. Stepanauskas, V. Stakenas, J. Šiaulyš.** Lithuanian State Science and Studies Foundation grant No. 20344 to support the project *Asymptotical properties of arithmetical sequences and functions.*

APPENDIX

Publications appeared in 1993–1999

Abbreviations:

LMR *Lietuvos Matematikos Rinkinys*

LMJ *Lithuanian Mathematical Journal*

NAMC *Nonlinear Analysis: Modelling and Control*, ISSN 1392–5133 (Vilnius)
Vilnius–93

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