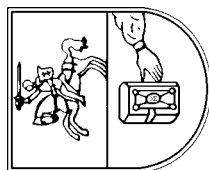


**VILNIAUS UNIVERSITETAS**

MATEMATIKOS IR INFORMATIKOS

FAKULTETAS



**VILNIUS UNIVERSITY**

FACULTY OF MATHEMATICS

AND INFORMATICS

Research  
and  
Publications  
Report

1999

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Naugarduko 24, 2600 Vilnius, Lithuania

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# FACULTY OF MATHEMATICS AND INFORMATICS

Naugarduko 24, 2600 Vilnius, Lithuania

**Dean Prof. Feliksas Ivanauskas**

tel. (370-2) 33 60 28, fax. (370-2) 25 15 85

[feliksas.ivanauskas@maf.vu.lt](mailto:feliksas.ivanauskas@maf.vu.lt)

## DEPARTMENT OF MATHEMATICAL ANALYSIS

**Head Prof. Vygantas Paulauskas**

tel. (370-2) 33 60 31

[vpaul@ieva.maf.vu.lt](mailto:vpaul@ieva.maf.vu.lt)

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.

**G. Bakštys.** Actuarial mathematics. [gintaras.bakstys@maf.vu.lt](mailto:gintaras.bakstys@maf.vu.lt)

**M. Bloznelis.** Higher order asymptotics and stochastic expansions of non-linear finite population statistics. [mblozn@ieva.maf.vu.lt](mailto:mblozn@ieva.maf.vu.lt)

**A. Juozulynas.** The rates of convergence and asymptotic expansions in limit theorems for stable laws. [almas@ieva.maf.vu.lt](mailto:almas@ieva.maf.vu.lt)

**V. Mackevičius.** Stochastic analysis; stochastic numerics. [vigirdas.mackevicius@maf.vu.lt](mailto:vigirdas.mackevicius@maf.vu.lt)

**E. Misevičius.** Mathematical analysis.

**S. Norvidas.** Mathematical analysis; complex, harmonic, and functional analysis. [norvidas@ieva.maf.vu.lt](mailto:norvidas@ieva.maf.vu.lt)

**V. Paulauskas.** Regression models with stable and other heavy-tailed innovations. Random compact convex sets in Banach spaces. Representation of stable vectors by LePage type sums.

[vpaul@ieva.maf.vu.lt](mailto:vpaul@ieva.maf.vu.lt), [vygantas.paulauskas@maf.vu.lt](mailto:vygantas.paulauskas@maf.vu.lt)

**A. Plikusas.** Sampling in official statistics; regression ratio estimators; asymptotic properties of the nonlinear statistics of the Poisson process.

[plikusas@senna.std.lt](mailto:plikusas@senna.std.lt)

**A. Račkauskas.** Probability limit theorems in functional spaces; applications in statistics.

alfredas@ieva.maf.vu.lt, alfredas.rackauskas@maf.vu.lt

**DEPARTMENT OF DIFFERENTIAL EQUATIONS AND  
NUMERICAL ANALYSIS**

**Head Doc. Vladas Skakauskas**

tel. (370-2) 33 60 33

vladas.skakauskas@maf.vu.lt

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.

**A. Ambrazevičius.** Solvability of capillarity problems.

algis@ieva.maf.vu.lt

**R. Čiegis.** Numerical analysis of nonlinear PDEs.

raimondas.ciegis@fm.vtu.lt

**V. Daukšas.** Optimization methods.

**J. Degutis.** Spectral problems of ODE.

**A. Domarkas.** Solvability of Schrödinger type equations.

aleksas@ieva.maf.vu.lt

**P. Golokvosčius.** Asymptotic analysis of ordinary differential equations.

**R. Karaliūnas.** Theory of composite systems.

**P. Katauskis.** Solvability of partial differential equations of parabolic type.

**A. Kavaliauskas.** Asymptotic analysis of dynamic systems.

**M. Meilūnas.** Numerical analysis of parabolic problems.

mecys.meilunas@sc.vu.lt

**V. Merkys.** Solvability of ordinary differential equations.

**K. Pileckas.** Navier–Stokes equations.

pileckas@ktl.mii.lt

**G. Puriuskis.** Elliptic type partial differential equations.

**M. Radžiūnas.** Numerical analysis of PDE.

mindaugas.radziunas@maf.vu.lt

**V. Skakauskas.** Population dynamics.

vladas.skakauskas@maf.vu.lt

**V. Starikovičius.** Parallel algorithms.

**D. Sūdžiūtė.** Theory of games.

DEPARTMENT OF PROBABILITY THEORY AND  
NUMBER THEORY

Head Prof. **Eugenijus Manstavičius**

tel. (370-2) 33 22 28

eugenijus.manstavicius@maf.vu.lt

Professors of this 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, Economy, and Communications. Their main scientific interests are related to the analytic and probabilistic number theories. A great attention is also paid to neighbouring problems of combinatorics, probability theory, to the development of Lithuanian mathematical thought, and to popularization of mathematical sciences.

- G. Bareikis.** Arithmetical models of random processes.  
gintautas.bareikis@maf.vu.lt
- A. Dubickas.** Transcendental and algebraic numbers with their conjugates.  
arturas.dubickas@maf.vu.lt
- E. Gaigalas.** Quadratic forms. edmundas.gaigalas@maf.vu.lt
- R. Garunkštis.** Value distribution of zeta-function.  
ramunas.garunkstis@maf.vu.lt
- R. Grigutis.** Structure of the homogeneous Abelian groups of finite rank.  
rimantas.grigutis@maf.vu.lt
- H. Jasiūnas.** History of mathematics.
- A. Kačėnas.** Value distribution of the Riemann zeta-function.  
audrius.kacenas@maf.vu.lt
- R. Kačinskaitė.** Discrete limit theorems for Dirichlet series.  
roma.kacinskaite@maf.vu.lt
- J. Kubilius.** Analytic and probabilistic number theory; history of mathematics.  
jonas.kubilius@maf.vu.lt, kubilius@pub.osf.lt
- R. Lapinskas.** Statistical problems of mental tests.  
remigijus.lapinskas@maf.vu.lt
- A. Laurinčikas.** Analytic and probabilistic number theory; value distribution of zeta-functions.  
antanas.laurincikas@maf.vu.lt
- A. Mačiulis.** Mean values and limit theorems for arithmetic functions.  
algirdas.maciulis@maf.vu.lt
- E. Manstavičius.** Probabilistic number theory; statistical problems in combinatorics.  
eugenijus.manstavicius@maf.vu.lt

- H. Markšaitis.** Algebraic number theory and the Galois theory.  
hamletas.marksaitis@maf.vu.lt
- G. Misevičius.** Probabilistic theory of expansions of numbers and functions.  
gintautas.misevicius@maf.vu.lt
- F. Mišeikis.** Theory of summation of random variables.
- V. Stakėnas.** Probabilistic number theory; functions on Farey fractions.  
vilius.stakenas@maf.vu.lt
- E. Stankus.** Analytic number theory; generalized numbers.  
eugenijus.stankus@maf.vu.lt
- G. Stepanauskas.** Mean values and limit theorems for arithmetic functions.  
gediminas.stepanauskas@maf.vu.lt
- J. Šiaulyš.** The Poisson laws in probabilistic number theory.  
jonas.siaulyš@maf.vu.lt

## DEPARTMENT OF MATHEMATICAL STATISTICS

**Head Prof. Algimantas Bikelis**

tel. (370-2) 33 60 16

algimantas.bikelis@maf.vu.lt

The main areas of the research at the department: theoretical and applied mathematical statistics, reliability and survival analysis, limit theorems in probability theory and mathematical statistics, operation research, time series analysis, financial and insurance mathematics, financial econometrics, Markov processes, nonlinear dynamics.

- V. Bagdonavičius.** Reliability theory; mathematical statistics, survival analysis, and their applications. vilijandas.bagdonavicius@maf.vu.lt
- V. Bikelienė.** Mathematical statistics program packages.  
marius@post.omnitel.net
- A. Bikelis.** Asymptotic analysis of quasi-lattice distributions.  
algimantas.bikelis@maf.vu.lt
- V. Čekanavičius.** Signed compound of the Stein method for the proofs.  
vydas.cekanavicius@maf.vu.lt
- V. Čiočys.** Mathematical models of economics.
- R. Eidukevičius.** Mathematical modelling; experimental planning and statistical analysis in oncology. rimantas.eidukevicius@sc.vu.lt
- B. Grigelionis.** Stochastic analysis and applications; mixed exponential processes and models of stock returns.  
broniusg@ktl.mii.lt; jurgita@ktl.mii.lt



- V. Kazakevičius**. Non-linear stochastic dynamic systems.  
vytautas.kazakevicius@maf.vu.lt
- J. Kruopis**. Signed Poisson approximations of lattice distributions.
- R. Leipus**. Financial mathematics, financial econometrics, time series analysis.  
remigijus.leipus@maf.vu.lt
- G. Murauskas**. SQL databases and WWW.  
gediminas.murauskas@maf.vu.lt
- A. Šukys**. System analysis and modelling; optimization and automatization of complex systems and their control.
- P. Vaitkus**. Large deviation probabilities, neural networks; nonlinear time series.

## DEPARTMENT OF COMPUTER SCIENCE

Head Doc. **Antanas Mitašiūnas**

tel. (370-2) 33 60 35

antanas.mitasiunas@maf.vu.lt

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, computer algebra, real-time systems, converters construction, error-correcting codes.

- A. Mitašiūnas**. Software process. antanas.mitasiunas@maf.vu.lt
- S. Norgėla**. Automated theorem proving. stasys.norgela@maf.vu.lt
- R. Pliuškevičius**. Proof theory of non-classical logics. Computer-aided calculi for temporal logics. Applications of temporal logics for logic programming. Verification and specification of reactive systems.  
regimantas.pliuskevicius@mlatas.mii.lt
- E. Povilonis**. Signal acquisition and analysis.  
edvardas.povilonis@maf.vu.lt
- G. Skersys**. Error-correcting codes. gintaras.skersys@maf.vu.lt
- A. Svirskas**. Object technologies in distributed systems; Internet/Intranet based IS; workflow automation. adomas.svirskas@maf.vu.lt
- V. Tumasonis**. Comparison of programming languages; computer algebra; IT standards. vladas.tumasonis@maf.vu.lt
- R. Vaicekauskas**. Numerical experiments on solution of Schrödinger equations. rimantas.vaicekauskas@maf.vu.lt
- J. Žagūnas**. Structured documents converting. jonas.zagunas@maf.vu.lt

## DEPARTMENT OF DIDACTICS OF MATHEMATICS

**Head Doc. Antanas Apynis**

tel. (370-2) 33 23 38

apynis@ieva.maf.vu.lt

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

**A. Apynis.** Game theory; social decisions; didactics of mathematics.

apynis@ieva.maf.vu.lt

**V. Dagiėnė.** Computer science. dagiene@pub.osf.lt, dagiene@ktl.mii.lt

**P. Gudynas.** Didactics of mathematics. gudynas@expert.osf.lt

**R. Kudžma.** Mathematical analysis; didactics of mathematics, semiotics.

ricardas.kudzma@maf.vu.lt

**R. Kašuba.** Modern elementary mathematics.

romualdas.kasuba@maf.vu.lt

**K. Liubinskas.** Assessment of mathematical abilities; mathematical contests.

kestas@ieva.maf.vu.lt

**P. Vaškas.** Didactics of school mathematics.

**A. Zabulionis.** Comparative education; assessment of mathematical abilities; classical and modern test theory.

algiz@nec.elnet.lt

## DEPARTMENT OF COMPUTER SCIENCE II

**Head Prof. Feliksas Ivanauskas**

tel. (370-2) 33 60 32

feliksas.ivanauskas@maf.vu.lt

The main research areas of the department: computer-aided geometry, data structures and algorithms, image and signal processing, scientific and symbolic computing, information systems. Applications to problems of hardware and software, many branches of physics and mathematics, psychology, linguistics, and social sciences are considered.

**A. Bastys.** Recognition theory; spectral analysis.

abba@ieva.maf.vu.lt., algirdas.bastys@maf.vu.lt

**F. Ivanauskas.** Numerical analysis of nonlinear evolution-type equations.

feliksas.ivanauskas@maf.vu.lt

- A. Juozapavičius.** Algorithms and data structures, computer vision, information systems. `algimantas.juozapavicius@maf.vu.lt`
- K. Karčiauskas.** Computer aided geometric design; multisided rational surface patches. `kestutis.karciauskas@maf.vu.lt`
- R. Krasauskas.** Computer aided geometric design; applications of algebraic geometry and topology. `rimvydas.krasauskas@maf.vu.lt`
- T. Meškauskas.** Numerical analysis of derivative nonlinear Schrödinger models. `tadas.meskauskas@maf.vu.lt`
- K. Navickis.** Differential geometry of flag varieties.
- S. Zubė.** Algebraic geometry; vector bundles on surfaces; computer aided geometric design. `severinas.zube@maf.vu.lt`

## DEPARTMENT OF SOFTWARE ENGINEERING

**Head Doc. Saulius Ragaišis**

tel. (370-2) 33 60 35

`saulius.ragaisis@maf.vu.lt`

The department supervises the software engineering track of education in informatics. The research areas of the department include software process, software engineering methods, software quality management, information systems modelling, geographic information systems, applied software systems, modelling of physical processes, document archiving, document configuration, semantics of loop programs operating with recurrences, speech analysis and synthesis, electronic signature, SmartCard technology.

- R. Baronas.** Modelling of physical processes; document archiving and retrieval. `romas.baronas@maf.vu.lt`
- V. Čyras.** Structural blanks approach to semantics of loop programs operating with recurrences, loop programs composition; information system specification models. `vytautas.cyras@maf.vu.lt`
- S. Dapkūnas.** Information system design; software product quality. `sigitas.dapkunas@sc.vu.lt`
- P. Kasparaitis.** Speech analysis and synthesis; object recognition. `pkasparaitis@yahoo.com`
- K. Lapin.** Document configuration. `kristina.lapin@maf.vu.lt`
- S. Narkevičius.** Document archiving and retrieval. `saulius.narkevicius@maf.vu.lt`
- S. Ragaišis.** Software process; information systems modelling. `saulius.ragaisis@maf.vu.lt`

**A. Šermokas**. Geographic information systems and modelling, library information systems and standards. `albertas.sermokas@maf.vu.lt`

**V. Undzėnas**. Speech analysis and synthesis; electronic signature. `valund@vrsrm.lt`

## THESES FOR DOCTOR HABILITATUS

1. **A. Dubickas**, Distribution of algebraic numbers.

## DOCTORAL THESES

1. **H. Markšaitis**, Galois groups of  $p$ -extensions with two ramification points. Scientific supervisor prof. A. Laurinčikas.
2. **T. Meškauskas**, The solvability of derivative nonlinear evolutionary models. Scientific supervisor prof. F. Ivanauskas.
3. **K. Navickis**, Geometry of multidimensional plane distributions of Grassmann manifolds of projective spaces  $P_n$ . Scientific supervisor prof. F. Ivanauskas.
4. **G. Skersys**, Calcul du groupe d'automorphismes des codes. Détermination de l'équivalence des codes. Université de Limoges. Advisers Thierry Berger and Nicolas Sendrier.

## PUBLICATIONS

*Abbreviations:*

LMR *Lietuvos Matematikos Rinkinys*

LMJ *Lithuanian Mathematical Journal*\*

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

Vilnius-98

*Probability Theory and Mathematical Statistics: Proceedings of the Seventh Vilnius Conference (1998)*, **B. Grigelionis et al. (Eds)**, VSP/TEV, Utrecht/Vilnius, 1999.

ProcLMS-99

*Proceedings of XL Conference of Lithuanian Mathematical Society* (a special supplement of *Lietuvos Matematikos Rinkinys*), Technika, Vilnius, 1999.

### Appeared in 1999

1. **A. Apynis**,\*\* **E. Stankus**, and J. Šinkūnas, The problems of education in mathematics *Proc. Conf. Mathematics and Teaching Mathematics, Kaunas Univ. of Technology, April 8-9, 1999*, Technologija, Kaunas, 1999, p. 5-10 (Lithuanian).
2. **A. Apynis**, **E. Stankus**, and J. Šinkūnas, The Lithuanian school for young mathematicians: reality and perspective, *ProcLMS-99*, p. 239-241 (Lithuanian).
3. G. J. Babu and **E. Manstavičius**, Brownian motion for random permutations, *Sankhyā: The Indian Journal of Statistics*, 1999, **61**(3), p. 312-327.
4. G. J. Babu and **E. Manstavičius**, Limit theorems for random permutations, *Paul Erdős and His Mathematics: Res. Comm. Conf. in the memory of Paul Erdős, Budapest, Hungary, July 4-11, 1999*, János Bolyai Math. Soc., p. 19-22.
5. G. J. Babu and **E. Manstavičius**, Random permutations and the Ewens sampling formula in genetics, *Vilnius-98*, p. 33-42.

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\* *Lithuanian Mathematical Journal* is a completely English version (published by Plenum Publishing Corporation and, since 1998, by Kluwer) 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**, S. Malov, and M. Nikulin, Characterizations and parametric regression estimation in Archimedian copulas, *J. Appl. Stat. Sc.*, 1999, **89**(2/3), p. 137–154.
7. **V. Bagdonavičius** and M. Nikulin, On semiparametric estimation of reliability from accelerated life data, In: *I. Ionescu, N. Limnios (Eds), Statistical and Probability Models in Reliability*, 1999, Birkhauser, Boston, p. 75–89.
8. **V. Bagdonavičius** and M. Nikulin, Model building in accelerated experiments, In: *I. Ionescu, N. Limnios (Eds) Statistical and Probability Models in Reliability*, 1999, Birkhauser, Boston, p. 51–73.
9. **V. Bagdonavičius** and M. Nikulin, Modified partial likelihood in generalized Cox model, *Lifetime Data Analysis*, 1999, **5**, p. 323–344.
10. **G. Bareikis** and K.-H. Indlekofer, Multiplicative processes in short intervals, *LMR*, 1999, **39**(2), p. 185–199; *LMJ*, 1999, **39**(2), p. 146–156.
11. **G. Bareikis**, K.-H. Indlekofer, Arithmetic processes on the set of shifted primes, *LMR*, 1999, **39**(4), p. 441–460; *LMJ*, 1999, **39**(4), p. 349–364.
12. **G. Bareikis**, Some inequalities in the semigroups, *ProcLMS-99*, p. 17–23.
13. **R. Baronas**, **F. Ivanauskas**, and J. Kulys, Modelling a biosensor based on the heterogeneous microreactor, *J. Math. Chemistry*, 1999, **25**, p. 245–252.
14. **R. Baronas**, **F. Ivanauskas**, and M. Sapagovas, Modelling of wood drying and an influence of lumber of geometry on drying dynamics, *NAMC*, 1999, **4**, p. 11–22.
15. **R. Baronas** and **S. Narkevičius**, Estimation of resource needs for document capture, *Proc. IX Conf. Lith. Computer Soc., Birštonas, September 16–18, 1999*, p. 14–21 (Lithuanian).
16. **A. Bastys**, K. Jarašiūnas, and M. Sūdžius, Optical nonlinearities at transient quenching of EL2 defect at room temperature, *J. Optic Communications*, 1999, **170**, p. 149–160.
17. **M. Bloznelis** and F. Götze, One-term Edgeworth expansion for finite population  $U$ -statistics of degree two, *Acta Applicandae Mathematicae*, 1999, **58**, p. 75–90.
18. **M. Bloznelis** and H. Putter, One term Edgeworth expansion for Student's  $t$  statistics, *Vilnius-98*, p. 81–98.
19. **M. Bloznelis** and **A. Račkauskas**, A Berry–Esseen bound for least squares error variance estimators of regression parameters, *LMR*, 1999,

- 39(1)**, p. 1–8; *LMJ*, 1999, **39(1)**, p. 1–7.
20. J. Blužas, I. Blužaitė, A. Matiukas, **T. Meškauskas**, M. Skučas, M. Tamošiūnaitė, G. Urbonavičienė, and R. Vaišnys, Sudden cardiac death from ischemia and possible mathematical methods for this problem, *Lith. J. Cardiology*, 1999, **6(1)**, p. 157–160 (Lithuanian).
  21. O. Brox, **M. Radžiūnas**, H. J. Wunsche, B. Sartorius, H. P. Nolting, K. Schneider, and D. Hoffmann, Modeling of new grating designs for self-pulsing DFB lasers, In: “*Integrated Photonics Research*,” *OSA Technical Digest (Optical Soc. of America)*, Washington, DC, 1999, p. 358–360.
  22. F. Coquet, **V. Mackevičius**, and J. Memin, Corrigendum to “Stability in  $\mathbf{D}$  of martingales and backward equations under discretization of filtration,” *Stoch. Proc. Appl.*, 1999, **82**, p. 335–338.
  23. **V. Čekanavičius**, Estimates in total variation for convolutions of compound distributions, *J. London Math. Soc.*, 1998, **58**, p. 748–760.
  24. **V. Čekanavičius** and **P. Vaitkus**, Large deviations for integer centered Poisson approximation, *LMR*, 1999, **39(1)**, p. 9–23 (Russian); *LMJ*, 1999, **39(1)**, p. 8–19.
  25. **V. Čekanavičius**, Remarks on infinitely divisible approximations to the binomial law, *Vilnius-98*, p. 135–146.
  26. **V. Čekanavičius**, On compound Poisson approximations under moment restrictions, *Teor. Veroyatn. Primen.*, 1999, **44**, p. 74–86 (Russian).
  27. **V. Čekanavičius** and **M. Mikalauskas**, Signed Poisson approximations for Markov chain, *Stoch. Proc. Appl.*, 1999, **82**, p. 205–227.
  28. **V. Čekanavičius** and **P. Vaitkus**, On the estimates in Wasserstein distance, *ProcLMS-99*, p. 465–469.
  29. **R. Čiegis** and **V. Starikovičius**, A theoretical model for effectivity of parallel LU factorization algorithm, *ProcLMS-99*, p. 414–418.
  30. **R. Čiegis** and R. Šablinskas, Numerical integration of fast oscillating functions, *ProcLMS-99*, p. 424–429.
  31. **R. Čiegis**, Rem. Čiegis, and A. Zemitis, Parallel numerical methods for the elliptic-parabolic problem, *Progress in Industrial Mathematics at ECMI 98*, L. Arkeryd, J. Bergh, Ph. Brenner, and R. Petersson (Eds.), Chalmers Univ. of Technology and Goteborg Univ., B. G. Teubner, Stuttgart–Leipzig, 1999, p. 206–214.
  32. **D. Čiukšys**, **A. Mitašiūnas**, **S. Ragaišis**, and A. Kiškis, Integrated crime prevention information system, *Proc. Conf. Integrated Systems of Design and Manufacturing*, Kaunas University of Technology, Kaunas,

- Technologija, 1999, p. 65–72 (Lithuanian).
33. **V. Čyras**, Recurrences in solving triangular systems of linear equations: representation in the structural blanks method, *Informatica*, 1999, **10**(1), Vilnius, p. 45–70.
  34. **V. Čyras** and **K. Lapin**, Automatic synthesis of technical drawings using a component-oriented configuration method, In: *A. Borkowski (Ed.), Artificial intelligence in structural engineering, Proc. 6th EG-SEA-AI Workshop “European Group for Structural Engineering Applications of Artificial Intelligence,” Wierzba, Poland, 1999*, Wydawnictwo Naukowo Techniczne, Warszawa, p. 103–112.
  35. Yu. Davydov and **V. Paulauskas**, On the estimation of the parameters of multivariate stable distributions, *Acta Applicandae Mathematicae*, 1999, **58**, p. 107–124.
  36. **A. Dubickas**, On intervals containing full sets of conjugates of algebraic integers, *Acta Arithmetica*, 1999, **XCI**(4), p. 379–386.
  37. **A. Dubickas**, On a polynomial with large number of irreducible factors, In: *Number Theory in Progress: Proc. Intern. Conf. Number Theory in Honor of the 60th Birthday of Andrzej Schinzel, Zakopane, Poland, June 30– July 9, 1997, Vol. 1: Diophantine Problems and Polynomials*, Eds. *K. Györy, H. Iwaniec, and J. Urbanowicz*, Walter de Gruyter, Berlin, 1999, p. 103–110.
  38. **A. Dubickas**, Polynomials with large multiplicity at 1 and Tarry’s problem, *Matem. Zametki*, 1999, **65**(6), p. 810–815.
  39. **A. Dubickas**, On polynomials with a root close to an integer, In: *Research Comm. Conf. in the memory of Paul Erdős, Budapest, Hungary, July 4–11, 1999*, Eds. *A. Sali, M. Simonovits, and V. T. Sós, János Bolyai Math. Soc., Budapest, Hungary*, 1999, p. 58–61.
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23. **R. Garunkštis**, On the zeros of the Lerch zeta-function. III, *Vilnius Univ. Preprint 99-19*.
24. **R. Garunkštis**, Primes in short intervals, *Vilnius Univ. Preprint 99-26*.
25. L. Giraitis, P. Kokoszka, and **R. Leipus**, Detection of long memory in ARCH models, *Preprint, University of Liverpool*, 1999.
26. F. Götze and **A. Račkauskas**, Adaptive choice of bootstrap sample sizes, *Preprint 99-071, Bielefeld University, SFB343*.
27. **A. Kačėnas**, Mean-value of the Riemann zeta-function, *Vilnius Univ. Preprint 99-12*.
28. **K. Karčiauskas**, Rational multisided Sabin and Hosaka–Kimura like surface patches, *Vilnius Univ. Preprint 99-31*.
29. **K. Karčiauskas**, On five- and six-sided rational surface patches, *Vilnius Univ. Preprint 99-32*.
30. P. Kokoszka and **R. Leipus**, Rescaled variance test of long memory, *Preprint, University of Liverpool* 1999.
31. **R. Krasauskas**, H. Pottmann, B. Hamann, K. Joy, and W. Seibold, On Piecewise linear approximation of quadratic functions, *Technical report No. 62, Institut für Geometrie, Technische Universität Wien*, 1999.

32. **A. Laurinčikas**, Value-distribution of general Dirichlet series, *Vilnius Univ. Preprint 99-1*.
33. **A. Laurinčikas** and K. Matsumoto, The joint universality and the functional independence for Lerch zeta-functions, *Vilnius Univ. Preprint 99-3*.
34. **A. Laurinčikas**, The universality of Dirichlet series attached to finite Abelian groups, *Vilnius Univ. Preprint 99-11*.
35. **A. Laurinčikas**, On the effectivization of the universality theorem for the Lerch zeta-function, *Vilnius Univ. Preprint 99-16*.
36. **A. Laurinčikas**, The asymptotics of negative moments of the normalized Riemann zeta-function, *Vilnius Univ. Preprint 99-20*.
37. **R. Leipus** and M.-C. Viano, Aggregation in ARCH models, *Pub. IRMA, Lille, 1999, Vol. 51, No. II*.
38. **V. Mackevičius**, A note on synchronization of diffusions, *Vilnius Univ. Preprint 99-33*.
39. **E. Manstavičius**, Stochastic processes with independent increments for random mappings, *Vilnius Univ. Preprint 99-4*.
40. **E. Manstavičius**, Functional limit theorems in probabilistic number theory, *Vilnius Univ. Preprint 99-14*.
41. **S. Norvidas**, Universal symbols of Hermitian elements, *Vilnius Univ. Preprint 99-27*.
42. **A. Račkauskas**, Large deviations behavior for quadratic errors of density estimators, *Vilnius Univ. Preprint 99-17*.
43. **A. Račkauskas** and Ch. Suquet, On the Holderian functional central limit theorem for i.i.d. random elements in Banach space, *Pub. IRMA, Lille, 1999, 50, III-1-III-13*.
44. **A. Račkauskas**, Ch. Suquet, Holderian version of Banach valued random fields and some central limit theorems, *Pub. IRMA, Lille, 1999, 50, II-1-II-20*.
45. **M. Radžiūnas**, H. J. Wunsche, B. Sartorius, O. Brox, D. Hoffmann, and K. Schneider, Modeling of self-pulsating DFB Lasers, *WIAS, 1999, Berlin*.
46. **V. Stakėnas**, On mean values of multiplicative functions over rational numbers, *Vilnius Univ. Preprint 99-24*.
47. **G. Stepanauskas**, On consecutive values of multiplicative functions, *Vilnius Univ. Preprint 99-8*.
48. **G. Stepanauskas**, The mean values of multiplicative functions  $V$ : The large  $\Delta$ , *Vilnius Univ. Preprint 99-25*.

49. **J. Šiaulys**, On the distributions of additive functions, *Vilnius Univ. Preprint 99–10*.
50. **J. Šiaulys**, Factorial moments method for distributions of additive functions, *Vilnius Univ. Preprint 99–23*.
51. **A. Šukys**, The main features of systematic methodology of the modelling, design, and development of complex organizations, *Working papers of the Statistics Lithuania*, p. 1–162 (Lithuanian).
52. **A. Šukys**, Role of the state statistical system in the development of the information society of Lithuania and its integration into the informatics infrastructure of Europe, *Working papers of the Statistics Lithuania*, p. 1–25 (Lithuanian).
53. **A. Šukys**, Applications of the system analysis and modelling to the management improvement, *Working papers of the Statistics Lithuania*, p. 1–45 (Lithuanian).
54. **S. Zubè**, The  $n$ -sided toric patches and  $A$ -resultants, *Johannes Gutenberg Univ. in Mainz, Germany, 1999, No. 11*.

### Conference reports in 1999

*XL Conference of Lithuanian Mathematical Society, June 21–22, 1999, Institute of Mathematics and Informatics, Vilnius*

1. **A. Apynis**, **E. Stankus**, and J. Šinkūnas, The Lithuanian school for young mathematicians: reality and perspective.
2. **R. Baronas**, **F. Ivanauskas**, and J. Kulys, Modelling of microreactors.
3. **A. Bikelis**, Distributions of the sums of discrete random vectors.
4. **A. Dubickas**, On the measure of a nonreciprocal algebraic number.
5. **A. Dubickas**, Waring’s problem for a prime modulus.
6. **R. Eidukevičius** and D. Characiejus, Modelling of tumor growth.
7. **A. Garunkštis**, Primes in short intervals.
8. **F. Ivanauskas** and **M. Radžiūnas**, Convergence and stability of difference scheme for evolutionary equations.
9. **A. Juozapavičius**, Fractal dimensions in image analysis.
10. **V. Kazakevičius** and **R. Leipus**, Stationarity of ARCH processes.
11. **R. Kudžma**, Semiotics in mathematical education.
12. **R. Kašuba**, The participants of the Lithuanian mathematical Olimpiad and their marks of state exam in mathematics.

13. **A. Kačėnas**, Discrete mean-values of the Riemann zeta-function.
14. **J. Kubilius**, Several formulas of classical type. VI.
15. **V. Mackevičius**, Stochastic differential equations: stationary distributions and synchronization of the flow of solutions.
16. **A. Mačiulis**, Non-uniform estimate in the Central Limit Theorem.
17. **M. Manstavičius**, Probabilistic properties of Besov spaces.
18. **G. Murauskas** and M. Jurgutis, Using three level architecture in VU information system.
19. **A. Račkauskas**, Invariance principle in Hölder topology.
20. **V. Skakauskas**, A mathematical model of the sociologically structured non-limited human population.
21. **G. Stepanauskas**, The mean values of multiplicative functions with shifted arguments.
22. **A. Šukys**, Modelling of ideal liquid flow.
23. **P. Vaitkus** and S. Būda, Autoregressive models with sigmoidal coefficients (SIFAR).

*Other conference reports*

Abbreviations:

*MMA-99*

*Fourth International Conference on Mathematical Modelling and Analysis, June 3-4, 1999, Vilnius, Lithuania.*

*ERDOS-99*

*Paul Erdős and His Mathematics: Conference in Memory of Paul Erdős, Budapest, Hungary, July 4-11, 1999, Eds. E. Györi and V. T. Sós, János Bolyai Mathematical Society.*

24. **V. Bagdonavičius** and M. Nikulin, Statistical analysis of generalized failure time models, *Intern. Conf. Recent Advances in Probab. Statist. in honour of Th. Cacoullos, Athens, Greece*, invited lecture.
25. **V. Bagdonavičius** and M. Nikulin, Vraisemblance partielle généralisée dans les épreuves accélérées, *XXXI Journées de Statistique, Grenoble, France*.
26. **V. Bagdonavičius** and M. Nikulin, Modelling dependence of tyre wear on explanatory variables, *XXXI Journées de Statistique, Grenoble, France*.
27. **R. Baronas**, **F. Ivanauskas**, and J. Kulys, Modelling a biosensor based on the heterogeneous microreactor, *MMA-99*, p. 17.

28. **R. Baronas**, **F. Ivanauskas**, I. Juodienė, and A. Kajalavičius, Application of diffusion equation to modelling of wood drying, *XXXIII Lith. Physics Conf., September 16–18, 1999, Vilnius, Abstracts*, p. 186.
29. **R. Baronas**, **F. Ivanauskas**, J. Kulys, Modelling a microreactor, *XXXIII Lith. Physics Conf., September 16–18, 1999, Vilnius, Abstracts*, p. 187–188.
30. R. Blake, **A. Juozapavičius**, and **M. Plukas**, Content-based approach to the graph matching in computer vision, *MMA–99*.
31. **M. Bloznelis**, Stochastic and asymptotic expansions to finite population statistic, *IV Panonian Colloq. Limit Theorems Probab. Stat., Balatonlelle, Hungary, June 2–6, 1999*, p. 3.
32. **M. Bloznelis**, Asymptotic expansions in combinatorial CLT, *9th Intern. Conf. Random Structures and Algorithms, August 2–6, 1999, Poznan, Poland*.
33. **M. Bloznelis**, Second order asymptotics of nonlinear finite population statistics, *XX Intern. Sem. Stability Problems for Stochastic Models, September 5–11, 1999, Lublin, Poland*, p. 29.
34. **V. Čyras** and **K. Lapin**, Automatic synthesis of technical drawings using a component-oriented configuration method, *Proc. 6th EG-SEA-AI Workshop “Artificial Intelligence in Structural Engineering” Wierzba ’99, September 18–22, 1999*.
35. **V. Čyras**, Electronic document archiving and management, *Proc. Conf. Lith. Computer Soc., September 16–18, 1999, 2*, p. 207–211 (Lithuanian).
36. **V. Čyras**, Recurrences in the structural blanks method: reuse, consistency and synthesis, *MMA–99*, p. 32.
37. **V. Čyras**, Synthesis of loop programs and their dependencies in the structural blanks approach to programming with recurrences, *Abstracts of Invited Lectures and Short Communications, VIII Intern. Colloq. Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, August 13–17, 1999*, p. 49.
38. A. Dementjev, **F. Ivanauskas**, and **R. Vaicekauskas**, Some aspects of computer aided measuring of laser beam quality parameters, *XXXIII Lith. Physics Conf., September 16–18, 1999, Vilnius, Abstracts*, p. 247.
39. A. Dementjev, R. Navakas, and **R. Vaicekauskas**, Modelling of generation dynamics of passively and actively  $Q$ -switched solid-state lasers, *MMA–99*.
40. **A. Dubickas**, The number of polynomials of bounded house, *ERDOS–99*.

41. **R. Eidukevičius**, Mathematical model of tumor and immune system interaction, *IV ESMTB Meeting Theory and Mathematics in Biology and Medicine, June 29–July 3, 1999, Vrije Universiteit Amsterdam*, p. 168.
42. **B. Grigelionis**, Asymptotic expansions in the compound Poisson limit theorem, *Intern. Conf. "Limits Theorems of Probability Theory," August 26–28, 1999, Vilnius (N)*.
43. **F. Ivanauskas** and **M. Radžiūnas**, On stability conditions of finite difference schemes for linear evolution equations, *VII Intern. Conf. Navier–Stokes Equations and Related Nonlinear Problems, August 13–17, 1999, Ferrara, Italy*.
44. **F. Ivanauskas** and **M. Radžiūnas**, On splitting finite difference schemes for nonlinear evolutionary equations, *MMA–99*, p. 61.
45. **F. Ivanauskas**, Classification of evolutionary equations and difference schemes, *Intern. Conf. "Differential Equations and their Applications", October 6–9, 1999, Šiauliai, Lithuania*.
46. **K. Karčiauskas** and **R. Krasauskas**, Rational rolling ball blending of natural quadrics, *MMA–99*, p. 46.
47. **K. Karčiauskas** and **R. Krasauskas**, Comparison of multisided surface patches using algebraic geometry, *Fourth Intern. Conf. "Curves and Surfaces," July 1–7, 1999, Saint-Malo, France, Résumés*, p. 38.
48. **R. Kašuba**, Some remark on nonstandard mathematical education, *Proc. Intern. Conf. Teaching Mathematics, Retrospective and Perspectives II, October 6–8, 1999, Riga*, p. 150.
49. **P. Katauskis**, On the solvability of nonlinear problem of magnetization, *MMA–99*, p. 47.
50. **R. Krasauskas**, Surfaces of lightfront, toric manifolds, and geometric modelling, *XXXIII Lith. Physics Conf., September 16–18, 1999, Vilnius*.
51. **J. Kubilius**, On the remainder term in the limit theorems for additive arithmetical functions, *ERDOS–99, Abstracts of Invited Talks*, p. 96.
52. **J. Kubilius**, On some results in probabilistic number theory, *Intern. Conf. "Limits Theorems of Probability Theory," August 26–28, 1999, Vilnius*.
53. **K. Lapin**, Configuration of technical drawings: conceptual model of the application domain, *MMA–99*, p. 54.
54. **A. Laurinčikas**, The universality of Dirichlet series, *Turku Symp. Number Th. in Memory of Kustaa Inkeri, May 31–June 4, 1999, Univ. of Turku, Finland, Abstracts*, p. 15.



55. **A. Laurinčikas**, The Lerch zeta-function, *Intern. Conf. "Analytical Methods of Analysis and Differential Equations" (AMADE'99), September 14–18, 1999, Minsk, Belarus, Abstracts*, p. 130–131.
56. **A. Laurinčikas**, The universality of zeta-functions attached to certain cusp forms, *ERDOS-99*.
57. **E. Manstavičius**, Functional limit theorems in probabilistic number theory, *ERDOS-99, Abstracts of Invited Talks*, p. 97–100.
58. **E. Manstavičius**, Probabilistic problems of random mappings on a finite set, *Les Résumés du Colloque "Arithmétique, Automates et Systèmes Dynamiques," CIRM, Novembre 2–5, 1999, Luminy*, p. 7.
59. **M. Meilūnas**, Some models of thanatogenetic processes in human population, *MMA-99*, p. 56.
60. **T. Meškauskas**, R. Vaišnys, A. Matiukas, M. Tamošiūnaitė, I. Blužaitė, G. Urbonavičienė, and J. Blužas, Sudden coronal death and mathematical modeling of this problem, *V Meeting Lith. Cardiological Soc., September 24–25, 1999, Kaunas*.
61. **A. Mitašiūnas** and **S. Ragaišis**, Model of reports based information system, *MMA-99*, p. 57.
62. **V. Paulauskas**, Lindeberg's CLT in multidimensional and Banach spaces, *52nd Session of the Intern. Statistical Institute, August 10–18, 1999, Helsinki, Finland, 1999*, **58**, p. 503–506.
63. **A. Račkauskas**, Large deviations of martingales, *Intern. Conf. "Limit Theorems of Probability Theory," August 26–28, 1999, Vilnius*, invited lecture.
64. **M. Radžiūnas**, On splitting finite difference schemes for nonlinear evolution equations, *MMA-99*, p. 61.
65. **M. Radžiūnas**, Hysteresis phenomenon in numerical simulations of multisectional DFB semiconductor lasers, *Fourth Intern. Congress Industr. Appl. Math., July 5–9, 1999, Edinburg, Scotland (N)*.
66. **M. Radžiūnas**, H.J. Wunsche, B. Sartorius, H.P. Nolting, O. Brox, D. Hoffmann, and K. Schneider, Modeling of new grating designs for self-pulsating DFB Lasers, *Integrated Photonics Research'99, July 19–21, 1999, Santa Barbara, California*.
67. **M. Radžiūnas**, Hysteresis in the model for semiconductor laser, *WIAS Workshop "Systems with Hysteresis," September 30–24, 1999, WIAS, Berlin, Germany*, p. 12.
68. **M. Radžiūnas**, Model for semiconductor lasers with nonlocal delayed boundary conditions, *WIAS Workshop "Dynamics of Semiconductor Lasers (Modeling, Analysis, Experiments)," September 9–11, 1999*.

69. **V. Skakauskas**, A mathematical model for sociologically structured human communities, *Conf. Functional Differential and Difference Equations, Instituto superior tecnico, July 26–30, 1999, Lisboa, Portugal*, p. 22.
70. **V. Skakauskas**, A mathematical model for sociologically structured human communities, *MMA–99*, p. 68.
71. **V. Skakauskas**, A mathematical analysis of two models of the autosomal population evolution problem, *XIII Max Born Symp., May 26–30, 1999, Wroclaw, Poland*.
72. **V. Skakauskas**, On age-structured population dynamics model with random mating and females pregnancy, *IV ESMTB Meeting and SMB Annual Meeting “Theory and Mathematics in Biology and Medicine”, June 29–3 July, 1999, Amsterdam*, p. 477.
73. **V. Skakauskas**, An autosomal age-structured diploid population dynamics model, *Intern. Conf. Diff. Eq. Appl. dedicated to 65th anniversary of professor B. Kvedaras and 60th anniversary of professor M. Sapagovas, Šiauliai, Lithuania, October 6–9, 1999*.
74. **G. Stepanauskas**, Mean values of multiplicative functions with shifted arguments, *ERDOS–99*.
75. **V. Tumasonis**, Encoding of Lithuanian accented letters, *XI Annual Meeting of GLDV (Society for Computational Linguistics and Language Technology), July 8–10, 1999, Frankfurt a/M*.
76. **S. Zubé**, The  $n$ -sided toric patches and  $A$ -resultants, *Intern. Conf. “Curves and Surfaces,” Saint-Malo, France*.

#### Books and textbooks (Lithuanian)

1. **A. Ambrazevičius, A. Domarkas**, Equations of Mathematical Physics, Part II, *Aldorija*, Vilnius, 1999, 388 p.
2. **A. Apynis, E. Stankus**, Mathematics (a textbook for economists), *Publishing Center*, Vilnius, 472 p., to appear.
3. **V. Dagienė**, Elements of Informatics for IX–X Forms, Part III: Computer, *TEV*, Vilnius, 1999, 112 p.
4. **V. Dagienė**, Elements of Informatics for IX–X forms, Part IV: Technology of Informatics, *TEV*, Vilnius, 1999, 112 p.
5. **V. Dagienė** and J. Skūpienė, Problems of Student Olimpiads in Informatics, Part I, *TEV*, Vilnius, 1999, 400 p.
6. **A. Dubickas**, XII and XIII Lithuanian Team Mathematical Olympiads, *Vilnius University Press*, Vilnius, 1999, 28 p.

7. **P. Golokvosčius**, *Differential Equations*, 534 p. to appear.
8. **V. Mackevičius**, *Stochastic Analysis*, to appear.
9. **E. Misevičius**, *Mathematical Analysis, Part II*, to appear.
10. **G. Misevičius**, A. Pincevičius, R. J. Rakauskas, and **R. Eidukevičius**, *Higher Mathematics. Textbook and Computer Practicum*, *TEV*, Vilnius, 1999, 469 p.
11. R. Lassaique, M. de Rougemont, *Logic and Complexity*, translated from French by **S. Norgėla**, *Žara*, Vilnius, 1999, 302 p.
12. **R. Leipus**, *Financial Markets: Discrete Time Stochastic Models*, *Vilnius University Press*, Vilnius, 1999.
13. **P. Vaškas**, *Nontraditional Geometry*, *Šviesa*, Kaunas, 300 p., to appear.

#### Other publications (Lithuanian)

*Abbreviation:*

$\alpha + \omega$  *Journal of Mathematics: Alpha plus Omega*, Ed. **V. Stakėnas**, 1999.

1. **A. Apynis**, **E. Stankus**, The first year of activity of the school for young mathematicians,  $\alpha + \omega$ , **1**, p. 67–72.
2. **V. Čiočys**, Articles *Penalty function method, Barrier method, Bellman's principle of optimality, Brachistrona, Descartes coordinate system, Basis, Basic solution, Differential*, In: *Universal Lithuanian Encyclopedia*, 1999.
3. **V. Čyras**, Document management systems: Their actuality for organisations in Lithuania, *Infobalt Laikas*, **4**, October, 1999, p. 80–82.
4. **V. Čyras**, Scanner or keyboard? Optical character recognition with FineReader, *Monitorius*, 1999, **6**(169), March 16–31, p. 9.
5. **V. Čyras**, Archiving photographs and multimedia documents in TCP/IP network, *Sprendimai (Solutions)*, *IBM Business Partner J.*, October, 1999, **4**, p. 10–11.
6. **A. Dubickas**, On positive polynomials,  $\alpha + \omega$ , **2**, p. 81–84.
7. **H. Jasiūnas**, Vytautas Statulevičius: Features of Life and Activities, *TEV*, Vilnius, 1999, 35 p.
8. **H. Jasiūnas**, 40 Years for the Lithuanian Mathematical Society, *Lith. Math. Soc.*, Vilnius, 1999, 120 p.
9. **J. Kubilius**, The section of mathematics, In: *Activities of the Lithuanian Academy of Sciences, 1998*, Vilnius, 1999, p. 19–20.

10. **J. Kubilius**, Honour to the past must not dominate over the present and future, *Lietuvos rytas, Sostinė*, May 8, 1999, No.105, No.88(888), p. 10.
11. **J. Kubilius**, Unbreakable university, In: *A. Juozaitis, Touches. Conversation Book, Pradai*, Vilnius, 1999, p. 99–111.
12. **J. Kubilius**, The beginning of cybernetics in Lithuania. *Mokslas ir gyvenimas*, 1999, No. 6, p. 22–23, 38–39.
13. **J. Kubilius**, Four tens of conferences, In: *40 Years for the Lithuanian Mathematical Society, Lith. Math. Soc.*, Vilnius, 1999, p. 5–6, 117–119.
14. **J. Kubilius**, An essential step towards independence In: *Fortunate Turn*. Gairės, Vilnius, p. 114–123.
15. **J. Kubilius**, Vytautas Statulevičius is 70, In: *Vytautas Statulevičius, TEV*, Vilnius, 1999, p. 3–4.
16. **A. Laurinčikas**, The youngest Doctor Habilitatus of Lithuania, *Tauragiškių balsas*, February 13, 18(958), 1999.
17. **V. Paulauskas**, An Honorable Anniversary of Professor Vytautas Statulevičius,  $\alpha + \omega$ , **2**, p. 47–50.
18. **A. Račkauskas**, An Anniversary of Professor Vytenis Kabaila,  $\alpha + \omega$ , **2**, p. 45–47.
19. **V. Stakėnas**, A problem book,  $\alpha + \omega$ , **1**, p. 45–46.
20. **V. Stakėnas**, Tariamieji begaliniai nusileidimai,  $\alpha + \omega$ , **2**, p. 58–62.
21. **G. Stepanauskas**, Recurrent sequences, *Dialogas*, March 19, 11(366), 1999.

#### Other lectures and reports

1. **A. Bastys**, Introduction to wavelets. Signal processing and wavelets, *Trondheim University, Norway, September 15, 20*.
2. **A. Dubickas**, On algebraic numbers of small Mahler measure, *School of Mathematics, University of East Anglia, Norwich, UK, May 24*.
3. **A. Dubickas**, The distribution of algebraic numbers, *Department of Pure Mathematics and Mathematical Statistics, Faculty of Mathematics, University of Cambridge, Cambridge, UK, May 25*.
4. **A. Dubickas**, Conjugate algebraic numbers in the complex plane, *Northern Arithmetic Seminar, Department of Mathematics and Statistics, Edinburgh University, Scotland, UK, May 27*.
5. **R. Eidukevičius**, Probability space and maximum likelihood estimation, *Biomathematical Summer School, Termoli, Italy, June 6–19*.

6. **B. Grigelionis**, Levy type processes in Finance. Semimartingales in the infinite securities market models. Mixed exponential processes and martingales, *Lectures at the University of Southern California, Los Angeles, USA*.
7. **R. Garunkštis**, On universality theorems for functions, *Johann Wolfgang Goethe-Universität Frankfurt am Main, November 15*.
8. **R. Garunkštis**, On zeros of the Lerch zeta function, *Johann Wolfgang Goethe-Universität Frankfurt am Main, November 22*.
9. **R. Garunkštis**, Zeros of the derivative of the Riemann zeta function, *Johann Wolfgang Goethe-Universität Frankfurt am Main, November 26*.
10. **F. Ivanauskas** and **M. Radžiūnas**, Stability conditions of finite difference schemes for evolution equations, *Salzburg University, Austria, April 22*.
11. **A. Juozapavičius**, Analysis of String and Word Algorithms, *Norwegian University of Science and Technology, Trondheim, February 3*.
12. **V. Mackevičius**, On the convergence rate of the Euler scheme, *Université de Rennes I, October 11*.
13. **R. Krasauskas**, About toric surface patches I, II, *Vienna University of Technology, Institute of Geometry, Austria, February 18, 25*.
14. **E. Manstavičius**, Value distribution of additive statistics of random permutations, *The Pennsylvania State University, Department of Statistics, January 19*.
15. **E. Manstavičius**, From probabilistic number theory to probabilistic combinatorics, *University of Colorado at Boulder, Department of Mathematics, February 2*.
16. **T. Meškauskas**, Spectral ECG analysis.  $1/f?$  as sudden death predictor, *Polytechnical University of Catalonia, Barcelona, Spain, June 15*.
17. **V. Paulauskas**, Estimation of parameters of cointegrated processes with onfinite variance innovations, *London School of Economics, UK, March 18*.
18. **V. Paulauskas**, Maximum likelihood estimators in regression models with stable innovations, *Bielefeld University, Germany, May 4*.
19. **V. Paulauskas**, Some new results for cointegrated processes with infinite variance innovations, *Institute of Econometrics and Statistics, Christian-Albrechts University in Kiel, Germany, May 6*.
20. **V. Paulauskas**, On some regression models with infinite variance errors, *Institute of Mathematics, Wrocław Polytechnical University, Poland, May 10*.

21. **V. Paulauskas**, Statistical inference in some econometric models with heavy-tailed innovations, *Georgia Institute of Technology, USA*, September 23.

## PARTICIPATION IN INTERNATIONAL PROJECTS

SOCRATES: the joint project of Greifswald and Vilnius Universities.

*Other activities:*

**A. Apynis**. A member of Task Force (High Quality in College Education) in PHARE programme “Higher Education Reform Programme in Lithuania” (1997–1999).

**R. Kudžma**. Organiser of Advanced Actuarial Diploma Course for Lithuania, Latvia, and Estonia, September 1998–October 1999. Partners and supporters: Institute of Actuaries and Faculty of Actuaries, UK; Know-How Fund, International Actuarial Association.

**K. Liubinskas**. Local coordinator of EmNeT C COST 3B1 project.

**E. Manstavičius**. TWINNING Program NRC, USA.

## SCIENTIFIC CONTACTS\*

### Visits by staff

1. **V. Bagdonavičius**. Invited professor at the University Victor Segalen Bordeaux II (France). Research work on accelerated life models. Lectures on probability theory and mathematical statistics. January 1–July 7.
2. **G. Bakštys**. Oxford University. March 20–29.
3. **G. Bareikis**. Research visit to Paderborn Universität GH, April 1–May 1.
4. **M. Bloznelis**. Bielefeld University, December.
5. **V. Čekanavičius**. University of Zurich, Department of Statistics. Research work on the Stein method for Poisson approximation. November.
6. **A. Dubickas**. Edinburgh University, University of East Anglia, and Cambridge University, May 4–June 2.
7. **R. Eidukevičius**. Visiting professor at the University of Padua, Italy. January 9–29. A lecture course on “Applications of computers in biology.”

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\* See also “Participation in international projects.”

8. **E. Gaigalas**. Visit to The Netherlands, Amsterdam, to take part in a seminar of the association of teaching atestation, January 24–28.
9. **R. Garunkštis**. Research visit to the Johann Wolfgang Goethe-Universität Frankfurt am Main, November 1–30.
10. **B. Grigelionis**. Research work on stochastic partial differential equations with applications to nonlinear filtering, Center for Applied Mathematical Sciences, University of Southern California, Los Angeles, USA. April 6–May 1, 1999.
11. **A. Juozapavičius**. Visiting professor at the Norwegian University of Science and Technology, Trondheim, Department of Computer Science, July 1998–February 1999. Research work in computer vision, lecture courses “Computer Graphics” and “Analysis of Algorithms.”
12. **A. Juozulynas**. Bielefeld university, SFB 343 “Diskrete Strukturen in der Mathematik,” March, and September 13–December 13.
13. **R. Kudžma**. Oxford University, March 20–29.
14. **R. Leipus**. Visiting professor at Lille University of Science and Technology. September.
15. **R. Leipus**. Research work at the University of Liverpool, September 1998–January 1999.
16. **V. Mackevičius**. Université de Rennes I, France, October 4–17.
17. **E. Manstavičius**. The Pennsylvania State University, Department of Statistics, January 10–February 9. Joint research work with prof. G. J. Babu (TWINNING program of NRC, USA).
18. **E. Manstavičius**. Research visits to Université de Provence, France, Marseille, with participation at the conference AASD, Luminy. May 25–June 7 and November 1–15.
19. **V. Paulauskas**. London Economical School and Oxford University, March 18–29.
20. **V. Paulauskas**. Visiting professor at Georgia Institute of Technology, 1999–2000.
21. **A. Račkauskas**. Bielefeld university, SFB 343 “Diskrete Strukturen in der Mathematik”. May and December 1999.

#### Foreign visitors

1. Prof. G. J. Babu, The Pennsylvania State University, Department of Statistics, June 13–July 3. Joint research work with **E. Manstavičius** (TWINNING Program of NRC, USA).
2. Prof. Richard Blake, Norwegian University of Science and Technology, June 1–5.

3. Prof. Jurgen Flachsmeier, Greifswald University, September 9–22. The visit supported by the Socrates project. Lectures for students and seminar talk on geometric forms in biology.
4. Prof. Jacek Wanewski, Institute of Biocybernetics and Biomedical Engineering. A lecture on mathematical models in biology, October 27.
5. Prof. Suhrit K. Day, Easter Illinois University. A lecture on stable numerical schemes for some differential equations. May 17.
6. prof. Jurij Davydov, Lille University (CNRS project), Fractal dimension of stochastic processes. November 13–27.
7. Doctoral student Gabor Csejtey, Norwegian University of Science and Technology, November 24–December 1.
8. Prof. Charles Suquet, Lille university (CNRS project),  $L_2$ -convergence of empirical processes of associated random variables. September.
9. Prof. Fritz Schweiger, Universität Salzburg, June 25–July 1. A lecture on ergodic properties of Poincaré map and Parry–Daniels algorithm.

## GRANTS

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4. **V. Čekanavičius**. Eurofaculty Teaching Associate grant.
5. **A. Domarkas**. *A Mathematical Practicum with MAPLE via Internet* (<http://ieva.maf.vu.lt/home/aleksas>). Open Society Fund–Lithuania grant.
6. **A. Dubickas**. A grant from the London Mathematical Society to visit Edinburgh University, UK, May 4–June 2.
7. **E. Gaigalas**. Lithuanian State Science and Studies Foundation grant No. 98819 to support the project *Education of analyticians of nonlinear processes* (October, 1998–September, 2001).



8. **P. Golokvosčius**. Lithuanian State Science and Studies Foundation grant to support writing the textbook *Differential Equations*.
9. **F. Ivanauskas**. Instruments and Standard Test Procedures for Laser, Beams, and Optic characterization, Project No. 1296 (CHOCLAB), 1996–1999.
10. **A. Juozapavičius**. Lithuanian State Science and Studies Foundation grant to support the research project *Nonlinear Processes*, September, 1998–August, 2001.
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16. **R. Leipus**. Lithuanian State Science and Studies Foundation grant K-014.
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18. **V. Mackevičius**. Open Society Fund–Lithuania grant to support the adaption of the lecture course on *Stochastic Analysis* to internet (<http://uosis.mif.vu.lt/~vigirdas>).
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21. **G. Stepanauskas, V. Stakėnas, J. Šiaulyš**. Lithuanian State Science and Studies Foundation grant No. 98268 to support the research project *The mean values of multiplicative functions*.
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## APPENDIX

### Publications appeared in 1993–1998

#### Abbreviations:

LMR *Lietuvos Matematikos Rinkinys*

LMJ *Lithuanian Mathematical Journal*

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

#### Vilnius–93

*Sixth International Vilnius Conference on Probability Theory and Mathematical Statistics, June 28–July 3, 1993*, Eds. **B. Grigelionis**, **J. Kubilius**, **H. Pragarauskas**, and **V. Statulevičius**, VSP/TEV, Utrecht/Vilnius, 1994.

#### ProcLMS–95

*Proceedings of XXXVI Conference of Lithuanian Mathematical Society, Vilnius, June 22–23, 1995*, Eds. **R. Kudžma** and **V. Mackevičius**, Vilnius University Press, Vilnius, 1996.

#### Palanga–96

*New Trends in Probability and Statistics. V. 4: Analytic and Probabilistic Methods in Number Theory. Proceedings of the Second International Conference in Honour of J. Kubilius, Palanga, Lithuania, September 23–27, 1996*, Eds. **A. Laurinčikas**, **E. Manstavičius**, and **V. Stakėnas**, TEV/VSP, Vilnius/Utrecht, 1997.

#### MMCA–97

*Proceedings of International Conference on Mathematical Modelling and Complex Analysis, Vilnius, June, 1997*, Ed. **R. Čiegis**, Technika, Vilnius, 1997.

#### ProcLCS–97

*Proceedings of VIII Conference of Lithuanian Computer Society, Birštonas, September 17–20, 1997*.

#### ProcLMS–97

*Proceedings of XXXVIII Conference of Lithuanian Mathematical Society (a special supplement of *Lietuvos Matematikos Rinkinys*)*, Technika, Vilnius, 1997.

#### ProcLMS–98

*Proceedings of XXXIX Conference of Lithuanian Mathematical Society (a special supplement of *Lietuvos Matematikos Rinkinys*)*, Technika, Vilnius, 1998.

#### Vilnius–98

*Proceedings of 22nd European Meeting of Statisticians and 7th Vilnius Conference on Probability Theory and Mathematical Statistics, August 12–18, 1998, Vilnius, Lithuania*, VSP/TEV, Utrecht/Vilnius, 1999.

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Matematikos ir informatikos fakultetas, Naugarduko 24, 2600 Vilnius.  
Nemokamai.