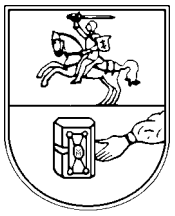
VILNIAUS UNIVERSITETAS

MATEMATIKOS IR INFORMATIKOS
FAKULTETAS



VILNIUS UNIVERSITY

FACULTY OF MATHEMATICS
AND INFORMATICS

Research
and
Publications
Report

2002

Naugarduko 24, 2600 Vilnius, Lithuania

Editor: V. Mackevičius

CONTENTS

FACULTY OF MATHEMATICS AND INFORMATICS

http://www.mif.vu.lt

Dean Prof. Feliksas Ivanauskas
tel. (370–5) 233 60 28, fax. (370–5) 215 15 85
feliksas.ivanauskas@maf.vu.lt

DEPARTMENT OF MATHEMATICAL ANALYSIS*

http://www.mif.vu.lt/katedros/mak/en

Head Prof. Vygantas Paulauskas
tel. (370–5) 233 60 31
vygantas.paulauskas@maf.vu.lt

Traditionally, the department unifies the researchers giving the courses of mathematical analysis (calculus) and related subjects for students of mathematics. Of late years, courses on actuarial and financial mathematics were also given 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

M. Bloznelis (until May, 2002). Probability limit theorems and combinatorial statistics.
mblozn@ieva.maf.vu.lt, http://www.mif.vu.lt/matinf/asm/mb/mb0a.html

K. Gadeikis. Doctoral student. gadeikis@ldr.lt

A. Juozulynas. The convergence rates and asymptotic expansions in limit theorems for stable laws. almas@ieva.maf.vu.lt

A. Lenkšas. Doctoral student: Numerical solution of SDEs. sparnai@delfi.lt

K. Liubinskas. Assessment of mathematical abilities; mathematical contests.
kestas@ieva.maf.vu.lt

V. Mackevičius. Stochastic analysis; stochastic numerics.
vigirdas.mackevicius@maf.vu.lt, http://www.mif.vu.lt/~vigirdas

E. Misevičius. Mathematical analysis.

J. Navikas. Doctoral student. jnavikas@hotmail.com, jnavikas@takas.lt

S. Norvidas. Mathematical analysis; complex, harmonic, and functional analysis.
saulius.norvidas@maf.vu.lt

*The departments are listed in the order of foundation.

V. Paulauskas. Probability limit theorems in functional spaces. Approximations of multidimensional stable laws. Autoregression models.
vpaul@ieva.maf.vu.lt, vygantas.paulauskas@maf.vu.lt

A. Plikusas. Sampling in official statistics; regression ratio estimators.
plikusas@senna.std.lt

D. Pralgauskis. Doctoral student. daniusp@delfi.lt

A. Skučaitė. Doctoral student: Limit theorems of actuarial mathematics.
aldona.skucaite@vb.lt, askucaite@yahoo.com

Publications. Journals with ISI SC Index – 3; International reviewed issues – 0; Lithuanian licensed issues – 3; Other – 0; Submitted – 7.

DEPARTMENT OF DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS

http://www.mif.vu.lt/katedros/dlsm/homea.html/en

Head Doc. Vladas Skakauskas
tel. (370–5) 233 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 partial differential equations of parabolic type.
algis@ieva.maf.vu.lt

V. Daukšas. Optimization methods. vaclovas.dauksas@maf.vu.lt

J. Degutis. Spectral problems of ODEs. juozas.degutis@maf.vu.lt

A. Domarkas. Solvability of nonlinear Schrödinger-type equations.
aleksas@ieva.maf.vu.lt

P. Golokvosčius. Asymptotic analysis of ODEs.

R. Karaliūnas. Theory of composite systems. romas.karaliunas@maf.vu.lt

P. Katauskis. Solvability of parabolic-type PDEs. pranas.katauskis@takas.lt

A. Kavaliauskas. Asymptotic analysis of dynamic systems.
algis.kavaliauskas@mif.vu.lt

M. Meilūnas. Numerical analysis of parabolic problems.
mecislovas.meilunas@fm.vtu.lt

K. Pileckas. Navier–Stokes equations. pileckas@ktl.mii.lt

G. Puriuškis. Schrödinger-type differential equations.
gintaras.puriuskis@maf.vu.lt

M. Radžiūnas. Numerical analysis of PDEs. mindaugas.radziunas@maf.vu.lt

V. Skakauskas. Population dynamics. vladas.skakauskas@maf.vu.lt

V. Starikovičius. Doctoral student: Parallel algorithms. vadimas.starikovicius@sc.vtu.lt

D. Sūdžiūtė. Theory of games. daina.sudziute@maf.vu.lt

Publications. Journals with ISI SC Index – 0; International reviewed issues – 0; Lithuanian licensed issues – 8; Other – 0; Submitted – 0.

DEPARTMENT OF PROBABILITY THEORY AND NUMBER THEORY

http://www.mif.vu.lt/katedros/ttsk/homea.html/en

Head Prof. Eugenijus Manstavičius
tel. (370–5) 233 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, Economics, and Communications. Their main scientific interests are related to the analytic and probabilistic number theories. A great attention is also paid to neighboring problems of combinatorics, probability theory, to the development of Lithuanian mathematical thought, and to popularization of the mathematical sciences.

A. Dubickas. Algebraic numbers with their conjugates. arturas.dubickas@maf.vu.lt, http://www.mif.vu.lt/~dubickas

E. Gaigalas. Quadratic forms. edmundas.gaigalas@maf.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/ge/ge_a.html

R. Garunkštis. Analytic number theory. Zeta-functions. ramunas.garunkstis@maf.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/ga/ga_a.html

J. Ignatavičiūtė. Doctoral student: Discrete limit theorems for the Lerch zeta-function. jolita.ignataviciute@maf.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/ign/jol_a.html

H. Jasiūnas. History of mathematics. henrikas.jasiunas@mif.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/ja/ja_a.html

A. Kačėnas. Value distribution of the Riemann zeta-function. audrius.kacenas@maf.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/ka/ka_a.html

R. Kačinskaitė. Doctoral student: Discrete limit theorems for Dirichlet series. roma.kacinskaite@maf.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/kac/kac_a.html

J. Kubilius. Analytic and probabilistic number theory. History of mathematics.
jonas.kubilius@maf.vu.lt, kubilius@pub.osf.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/ku/ku_a.html

A. Laurinčikas. Analytic and probabilistic number theory. Value distribution of zeta-functions. antanas.laurincikas@maf.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/lau/lau_a.html

R. Macaitienė. Doctoral student: discrete value distribution of general Dirichlet series.

E. Manstavičius. Probabilistic number theory. Statistical problems in combinatorics. eugenijus.manstavicius@maf.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/man/man_a.html

H. Markšaitis. Algebraic number theory and the Galois theory.
hamletas.marksaitis@maf.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/mar/mar_a.html

G. Misevičius. Probabilistic theory of expansions of numbers and functions.
gintautas.misevicius@maf.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/mis/mis_a.html

J. Norkūnienė. Doctoral student: Laws of iterated logarithm in probabilistic combinatorics.

D. Šiaučiūnas. Doctoral student: Value distributions of periodic zeta-functions.

J. Šiaulys. Limits laws in probabilistic number theory.
jonas.siaulys@mif.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/siau/siau_a.html

R. Šleževičienė. Doctoral student: Joint limit theorems for the Riemann zeta-function. rasa.slezeviciene@maf.vu.lt

V. Zacharovas. Doctoral student: Probabilistic combinatorics, convergence rates in limit theorems. vytas.zacharovas@mif.vu.lt

Publications. Monographs – 1; Journals with ISI SC Index – 12; International reviewed issues – 19; Lithuanian licensed issues – 22; Other – 6; Submitted – 13.

DEPARTMENT OF MATHEMATICAL STATISTICS

http://www.mif.vu.lt/katedros/dms/en

Head Prof. Vilijandas Bagdonavičius
tel. (370–5) 213 63 90
algirdasbag@techas.lt

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

V. Bagdonavičius. Reliability theory. Mathematical statistics, survival analysis, and their applications. algirdasbag@techas.lt

B. Beresneva. Doctoral student.

A. Bikelis. Asymptotic analysis of quasi-lattice distributions.
algimantas.bikelis@maf.vu.lt

V. Čiočys. Mathematical models of economics.

R. Eidukevičius. Mathematical modeling. 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

J. Jodko. Doctoral student.

V. Kazakevičius. Nonlinear stochastic dynamic systems.
vytautas.kazakevicius@maf.vu.lt

J. Kruopis. Signed Poisson approximations of lattice distributions.

R. Levulienė. Mathematical statistics, reliability. ruta.levuliene@maf.vu.lt

K. Mikalauskas. Doctoral student.

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

J. Turkuvienė. Doctoral student.

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

Publications. Journals with ISI SC Index – 3; International reviewed issues – 5; Lithuanian licensed issues – 3; Other – 0; Submitted – 3.

DEPARTMENT OF COMPUTER SCIENCE

http://www.mif.vu.lt/katedros/cs/welcome.htm/en

Head Doc. Antanas Mitašiūnas
tel. (370–5) 233 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, real-time systems, converter construction, error-correcting codes.

A. Adamonis. Doctoral student: Support and maintenance process modeling. andrius.adamonis@maf.vu.lt

V. Dičiūnas. Neural networks. Complexity of algorithms. valdas.diciunas@maf.vu.lt

A. Janeliūnas. Neural net based classification algorithms. Object-oriented database systems. arunas.janeliunas@verslas.com

A. Mitašiūnas. Software process. Electronic signature. antanas.mitasiunas@maf.vu.lt

S. Norgėla. Automated theorem proving. stanislovas.norgela@maf.vu.lt

E. Povilonis. Doctoral student: Signal acquisition and analysis. edvardas.povilonis@maf.vu.lt

Š. Raudys. Neural networks. Statistical and neural classifiers. raudys@ktl.mii.lt

J. Sakalauskaitė. Object technologies in distributed systems; Internet/Intranet based IS; workflow automation. jurgita.sakalauskaite@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 solution of Schrödinger equations. rimantas.vaicekauskas@maf.vu.lt

J. Žagūnas. Structured documents converting. jonas.zagunas@maf.vu.lt

Publications. Journals with ISI SC Index – 3; International reviewed issues – 0; Lithuanian licensed issues – 3; Other – 2; Submitted – 1.

DEPARTMENT OF DIDACTICS OF MATHEMATICS

http://www.mif.vu.lt/katedros/mmk/en

Head Doc. Antanas Apynis
tel. (370–5) 233 23 38
antanas.apynis@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. antanas.apynis@maf.vu.lt

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

R. Kudžma. Mathematical analysis. Didactics of mathematics; semiotics. Actuarial mathematics. ricardas.kudzma@maf.vu.lt

R. Kašuba. Developing of mathematical skill; modern elementary mathematics; didactics of mathematics; mathematical contests; high-school and university pedagogics; mathematics and arts. romualdas.kasuba@maf.vu.lt

E. Stankus. Analytic number theory; probabilistic number theory, didactics of mathematics. eugenijus.stankus@maf.vu.lt

Publications. Journals with ISI SC Index – 0; International reviewed issues – 1; Lithuanian licensed issues – 2; Other – 4; Submitted – 0.

DEPARTMENT OF COMPUTER SCIENCE II

http://www.mif.vu.lt/katedros/cs2/lietuva/katedhp.htm/en

Head Prof. Feliksas Ivanauskas
tel. (370–5) 233 60 32
feliksas.ivanauskas@maf.vu.lt

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

A. Bastys. Medical signal analysis; digital video-signals processing. algirdas.bastys@maf.vu.lt

J. Dabulytė. Doctoral student: Optimization of adaptive cooling in diode-pumped solid-state lasers in the four-dimensional case. jurgita.dabulyte@ktu.lt

F. Ivanauskas. Numerical analysis of nonlinear diffusion equations; modeling of physical problems. feliksas.ivanauskas@maf.vu.lt

A. Juozapavičius. Algorithms of computer vision and graphics. Data structures and indexing of databases for mobile communications and Internet-based systems. algimantas.juozapavicius@maf.vu.lt

K. Karčiauskas. Computer aided geometric design; multisided rational surface patches. kestutis.karciauskas@maf.vu.lt

P. Kasparaitis. Speech synthesis. pkasparaitis@yahoo.com

D. Kašliakovas. Doctoral student. dmitrij.k@post.omnitel.net

I. Kaunietis. Doctoral student: Modeling of fluid dynamics in a man's body. kirmantas@kalnieciai.lt

M. Kazakevičiūtė. Doctoral student: Computer aided geometric design; modeling curves on rational surfaces. margarita@megalogika.lt

R. Krasauskas. Computer aided geometric design; applications of algebraic geometry and topology. rimvydas.krasauskas@maf.vu.lt

A. Kurtinaitis. Doctoral student: Numerical simulation of partial differential equations. andrius.kurtinaitis@maf.vu.lt

B. Lapcun. Doctoral student. bogdan.lapcun@takas.lt

T. Meškauskas. Numerical analysis of nonlinear evolutionary models. tadas.meskauskas@maf.vu.lt

K. Mickus. Doctoral student: Visualization algorithms for indices of mobile and fast moving objects. kazimieras.mickus@maf.vu.lt

S. Narkevičius. Doctoral student: Computer aided geometric design; object oriented technology. saulius.narkevicius@maf.vu.lt

R. Naujikas. Doctoral student: Investigation of the Duffing equation with random perturbations. rolandas.naujikas.@maf.vu.lt

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

M. Pelanis. Doctoral student: Data structures and algorithms for temporal and fast changing data, access methods for spatial and multidimensional data. mindaugas.pelanis@maf.vu.lt

A. Raguotis. Doctoral student. a.raguotis@tetraneta.lt

V. Rapševičius. Doctoral student: Algorithms and models for data mining and pattern recognition in geology. valdas.rapsevicius@lgt.lt

Š. Repšys. Doctoral student. saaraas@e-post.lt

J. Skučas. Doctoral student: 3D objects identification and analysis in medical imaging. jonas@stinklas.lt

M. Vilkienė. Doctoral student: Modeling of rational surfaces. monika.vilkiene@ktu.lt

S. Zubė. Algebraic geometry; curves and surfaces; computer aided geometric design; subdivision. severinas.zube@maf.vu.lt

Publications. Journals with ISI SC Index – 5; International reviewed issues – 5; Lithuanian licensed issues – 10; Other – 2; Submitted – 4.

DEPARTMENT OF SOFTWARE ENGINEERING

http://www.mif.vu.lt/katedros/se/welcome.htm/en

Head Doc. Saulius Ragaišis
tel. (370–5) 213 38 98
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 modeling, geographic information systems, applied software systems, modeling of physical processes, document archiving, document configuration, semantics of loop programs operating with recurrences, speech, electronic signature.

R. Baronas. Modeling of physical processes; document archiving and retrieval. romas.baronas@maf.vu.lt

D. Čiukšys. Java; XML technologies; distributed object-oriented technologies; object-oriented analysis and design; design patterns. donatas.ciuksys@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

G. Daugiala. Doctoral student: modeling of information systems. giedrius@sintagma.lt

A. Dienys. Software process management and software quality management. andrius.dienys@maf.vu.lt

K. Lapin. Document configuration. kristina.lapin@maf.vu.lt

S. Ragaišis. Software process; modeling of information systems. saulius.ragaisis@maf.vu.lt

A. Šermokas. Geographic information systems and modeling; library information systems and standards. albertas@sintagma.lt

V. Undzėnas. Electronic signature. valdas.undzenas@sc.vu.lt

Publications. Journals with ISI SC Index – 3; International reviewed issues – 1; Lithuanian licensed issues – 3; Other – 0; Submitted – 2.

DEPARTMENT OF ECONOMETRIC ANALYSIS

http://www.mif.vu.lt/katedros/ek/en

Head Prof. Alfredas Račkauskas
tel. (370–5) 233 60 23
alfredas.rackauskas@maf.vu.lt

Department of Econometric analysis was established September 1, 2001. Research areas of the department: financial mathematics; time series; functional data analysis; limit theorems in probability and their applications to statistics and econometrics; bootstrap and other resampling methods in statistics and econometrics.

V. Čekanavičius. Signed compound Poisson approximations. Kolmogorov's problem. vydas.cekanavicius@maf.vu.lt

V. Krencius. Doctoral student. krencius@ldr.lt

A. Klivečka. Doctoral student. a.klivecka@sigmatelas.lt

R. Lapinskas. Regression methods in ecology and medicine. remigijus.lapinskas@maf.vu.lt

R. Leipus. Financial mathematics and econometrics. Time series analysis. remigijus.leipus@maf.vu.lt, http://www.mif.vu.lt/~remis

A. Mackevičiūtė. Doctoral student. aistuciuke@hotmail.com

V. Maniušis. Doctoral student: empirical processes. vtas@hotmail.com

F. Mišeikis. Theory of summation of random variables.

G. Murauskas. Information systems. Computer statistics; online education of statistics. gediminas.murauskas@maf.vu.lt, http://www.ts.vu.lt

V. Pažemys. Doctoral student. vpazemys@lbank.lt

A. Račkauskas. Probability limit theorems in functional spaces; applications in statistics. alfredas.rackauskas@maf.vu.lt, http://www.mif.vu.lt/katedros/eka/asm-psl/alfredas/alfredas.htm

M. Radavičius. Nonparametrical and adaptive estimation; econometrics; classification; image analysis. mrad@ktl.mii.lt

M. Ramoška. Doctoral student. matas.ramoska@maf.vu.lt

D. Zuokas. Doctoral student. danaz78@one.lt

Publications. Journals with ISI SC Index – 3; International reviewed issues – 3; Lithuanian licensed issues – 8; Other – 0; Submitted – 8.

DEPARTMENT OF MATHEMATICAL COMPUTER SCIENCE

http://www.mif.vu.lt/matinf/indexa.htm

Head Prof. Mindaugas Bloznelis

tel. (370–5) 233 22 28

mblozn@ieva.maf.vu.lt

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

G. Bareikis. Arithmetical models of random processes.
gintautas.bareikis@maf.vu.lt,
http://www.mif.vu.lt/matinf/asm/bg/bg_a.html

M. Bloznelis. Probability limit theorems and combinatorial statistics.
mblozn@ieva.maf.vu.lt, http://www.mif.vu.lt/matinf/asm/mb/mb0a.html

R. Grigutis. Structure of the homogeneous Abelian groups of finite rank.
rimantas.grigutis@maf.vu.lt,
http://www.mif.vu.lt/matinf/asm/gr/gr_a.html

A. Mačiulis. Mean values and limit theorems for arithmetic functions.
algirdas.maciulis@maf.vu.lt,
http://www.mif.vu.lt/matinf/asm/ma/ma_a.html

V. Stakėnas. Probabilistic number theory, functions on Farey fractions.
vilius.stakenas@maf.vu.lt,
http://www.mif.vu.lt/matinf/asm/vs/vs0a.html

G. Stepanauskas. Mean values and limit theorems for arithmetic functions.
gediminas.stepanauskas@maf.vu.lt,
http://www.mif.vu.lt/matinf/asm/ste/ste_a.html

Publications. Journals with ISI SC Index – 3; International reviewed issues – 0; Lithuanian licensed issues – 3; Other – 0; Submitted – 5.

DOCTORAL THESES

1. **V. Dičiūnas**, Generalization performance of statistical and neural classifiers. Scientific advisor prof. **Š. Raudys**.
2. **R. Kačinskaitė**, Discrete limit theorems for the Matsumoto zeta-function. Scientific advisor prof. **A. Laurinčikas**.
3. J. Kirjackis (VGTU), Classes of analytical functions connected with nth order finite and divided differences. Scientific advisor prof. **F. Ivanauskas**.
4. **R. Levulienė**, Goodness-of-fit tests and statistical estimation in degradation and accelerated life models. Scientific advisor prof. **V. Bagdonavičius**.
5. **V. Starikovičius**, Parallel numerical algorithms for multiphase flow models. Scientific advisor prof. R. Čiegis.
6. **R. Šleževičienė**, Joint limit theorems and universality for the Riemann and allied zeta-functions. Scientific adviser prof. **A. Laurinčikas**.

PUBLICATIONS

Abbreviations:

LMR	*Lietuvos Matematikos Rinkinys*
LMJ	*Lithuanian Mathematical Journal**
NAMC	*Nonlinear Analysis: Modelling and Control, ISSN 1392–5133* (Vilnius)
Palanga–2001	*Analytic and Probabilistic Methods in Number Theory. Proceedings of the Third International Conference in Honour of J. Kubilius, Palanga, Lithuania, September 24–28, 2001* (*Eds.* **A. Dubickas**, **A. Laurinčikas**, *and* **E. Manstavičius**), TEV, Vilnius, 2002.
ProcLMS–2002	Special issue of *Lietuvos Matematikos Rinkinys*, 2002, **42**: *Proceedings of XLIII Conference of Lithuanian Mathematical Society, Vilnius Military Academy, June 22–23, 2002.*
Vilnius–2002	*Proceedings of VIII International Vilnius Conference on Probability Theory and Mathematical Statistics, June 23–29, 2002*, to appear in *Acta Applicandae Mathematica*.

Monographs

1. **A. Laurinčikas** and **R. Garunkštis**, The Lerch Zeta-Function, *Kluwer Academic Publishers*, Dordrecht, 2002, 197 p.

Articles: Journals with ISI Science Citation Index

1. J. Babu and **E. Manstavičius**,** Limit processes with independent increments for the Ewens sampling formula, *Ann. Inst. Stat. Math.*, 2002, **54**(3), p. 607–620.
2. **V. Bagdonavičius**, L. Gerville-Reache, and M. Nikulin, Parametric inference for step-stress models, *IEEE Trans. Reliability*, 2002, **51**(1), p. 27–31.
3. **V. Bagdonavičius**, **A. Bikelis**, **V. Kazakevičius**, and M. Nikulin, Nonparametric estimation from simultaneous degradation and failure time data, *CR Acad. Sc. Paris*, 2002, **335**, Serie I, p. 183–188.
4. A. D. Barbour and **V. Čekanavičius**, Total variation asymptotics for sums of independent integer random variables, *Ann. Probab.*, 2002, **30**(2), p. 509-545.
5. **R. Baronas**, **F. Ivanauskas**, and M. Sapagovas, Reliability of one-dimensional model of moisture diffusion in wood, *Informatica*, 2002, **13**(4), p. 405–416.

**Lithuanian Mathematical Journal* is a completely English version (published by 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.

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67. **S. Zubė**, Polynomial parameterizations of toric patches, *Workshop Algebraic Geometry and Geometric Modeling, Vilnius, July 29–August 2, 2002*.

Books, textbooks, lecture notes (in Lithuanian)

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2. **R. Baronas**, Database systems, *TEV*, Vilnius, 2002, 126 p.
3. **V. Čekanavičius** and **G. Murauskas**, Statistics and its Applications II, *TEV*, Vilnius, 2002, 272 p.
4. **A. Domarkas**, Eigenvalue problems for ordinary differential operators.
   `http://www.mapleapps.com/categories/mathematics/pdes/worksheets/eigenval.mws`
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9. **A. Domarkas**, Solving Cauchy problems for heat equations.
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11. **A. Domarkas**, Integral transformations in PDE's.
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13. **R. Grigutis**, Algebra (2nd semester exercises).
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15. **R. Grigutis**, Theory of Fields (on-line lectures notes).
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16. K. Intienė, A. Skūpas, **V. Stakėnas**, **E. Stankus**, and V. Vitkus, Mathematics 11: I, *TEV*, Vilnius, 2002, 208 p.
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18. K. Intienė, **V. Stakėnas**, **E. Stankus**, and V. Vitkus, Mathematics 11: Exercises, *TEV*, Vilnius, 2002, 88 p.
19. **A. Kavaliauskas**, Collection of Mathematical Exercises. Limit. Derivative. Indefinite Integral, *Vilnius University*, Vilnius, 2002, 83 p.
20. **R. Lapinskas**, Introduction to Statistics with R, 2002, 218 p.
http://www.mif.vu.lt/katedros/eka/Darbuotojai/lapinskas-files/using-r/lapinskas.pdf
21. **V. Mackevičius**, The Space $\mathbb{R}^k$ (lecture notes).
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22. **H. Markšaitis**, Geometry and Algebra (lecture notes, exercises, exams for students of mathematics).
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23. **E. Misevičius**, Exercises of Calculus, Part I (paruoštas spaudai).
24. **V. Stakėnas**, Cryptology (lecture notes for students of mathematics and informatics). http://www.mif.vu.lt/matinf/asm/vs/vs0.htm
25. **V. Stakėnas**, Coding Theory (lecture notes for students of mathematics and informatics). http://www.mif.vu.lt/matinf/asm/vs/vs0.htm
26. **V. Stakėnas**, History of Mathematics (lecture notes for students of mathematics and informatics). http://www.mif.vu.lt/matinf/asm/vs/vs0.htm
27. **G. Stepanauskas**, Definite Integral (lecture notes for students of physics).
http://www.mif.vu.lt/matinf/asm/ste/ste.html

28. **G. Stepanauskas**, Statistical Modeling (lecture notes for students of mathematics). http://www.mif.vu.lt/matinf/asm/ste/ste.html
29. **J. Šiaulys**, Field Theory (lecture notes for students of physics). http://www.mif.vu.lt/katedros/ttsk/bylos/siau/siau.html

Other publications*

Abbreviations:

$\alpha + \omega$	*Journal of Mathematics and Informatics: Alpha Plus Omega*, Ed. **V. Stakėnas**, 2002.
PK	In: T. Katilienė, *Petras Katilius*, Mažoji Evelina (Little Evelina), Vilnius, 2002, 672 p.

1. **A. Apynis**, **E. Stankus**, and J. Šinkūnas, On the Lithuanian School of Young Mathematicians, $\alpha + \omega$, **1**, p. 78-81.
2. **A. Apynis**, **E. Stankus**, and J. Šinkūnas (Eds.), *For a Young Mathematician.* II: *Problems and Solutions of Lithuanian School of Young Mathematicians 1999–2001*, Danielius, Vilnius, 2002, 136 p.
3. **A. Apynis**, **E. Stankus**, and J. Šinkūnas (Eds.), *For a Young Mathematician.* III: *Problems and Solutions of Lithuanian School of Young Mathematicians 2000–2002*, Danielius, Vilnius, 2002, 128 p.
4. **A. Apynis** and **E. Stankus**, Trigonometric equations and inequalities, In: [3], p. 63–67, 117–120.
5. **M. Bloznelis** and **A. Plikusas**, Conference of mathematicians, *Mokslas ir Technika*, 2002, 7–8, p. 8.
6. **M. Bloznelis** and V. Statulevičius, On habilitation procedure, *Mokslas ir gyvenimas*, 2002, No. 12, p. 15.
7. **A. Domarkas**, Symbolic calculation of values of trigonometric functions, $\alpha + \omega$, **2**, p. 78–82.
8. **B. Grigelionis**, Boris Gnedenko and Lithuanian mathematics (to 90th anniversary), $\alpha + \omega$, **2**, p. 3.
9. **B. Grigelionis**, Urn schemes and finite Markov chains, In: [2], p. 63–79.
10. **R. Krasauskas**, Computer-aided color modeling, *Vilnius Univ. Preprint 02–, p*. 427–429.
11. **R. Kašuba**, In the fall the north wind will blow, *Kompiuterija*, 2002, **9**, p. 47–48.
12. **R. Kašuba**, Everything about him, our hero duck Donald, *Kompiuterija*, 2002, **10**, p. 47–48.

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13. **R. Kašuba**, Through mathematics towards informatics, *Kompiuterija*, 2002, **11**, p. 47–48.
14. **R. Kašuba**, At the end of 2002: mathematical olympiads, $\alpha + \omega$, **3**, p. 9–11.
15. **R. Kudžma**, Progressions, "cobwebs," and the problem of Jurgita biofertilizers, $\alpha + \omega$, **1**, p. 50–59.
16. **R. Kudžma**, The inverse function and its graph, $\alpha + \omega$, **3**, p. 43–47.
17. **A. Mackevičiūtė**, Lithuania, In: *PIRLS 2001 Encyclopedia*, International Study Center, Boston College, Boston, 2002, p. 171–177 (in English).
18. **K. Navickis**, Otto Theodor Volk, 1892 07 13–1989 03 21, *PK*, p. 52–56.
19. **K. Navickis**, Karl Jaspers, *PK*, p. 77–84.
20. **K. Navickis**, Ernst Hoffmann, *PK*, p. 87.
21. **K. Navickis**, Max Wolf, *PK*, p. 88–89.
22. **K. Navickis**, Heinrich Liebmann, *PK*, p. 409–412.
23. **K. Navickis**, Arthur Rosenthal, *PK*, pp. 412–413.
24. **K. Navickis**, Karl Bopp, *PK*, p. 413–414.
25. **K. Navickis**, Max Müller, *PK*, p. 414.
26. **K. Navickis**, Nets of Curves, *PK*, p. 415–427.
27. **K. Navickis**, Collaboration of P. Katilius in the journal "Matematika," *PK*, p. 513.
28. Volk's Letters to P. Katilius (translated by **K. Navickis**), *PK*, p. 521–531.
29. **K. Navickis**, Otonas Stanaitis, *PK*, p. 532–533.
30. **K. Navickis**, Examine for Life, *PK*, p. 90–98.
31. **K. Navickis**, Heidelberg and its University, *PK*, p. 662–664.
32. **A. Plikusas**, How to share the candies, $\alpha + \omega$, **3**, p. 37–42.
33. **A. Račkauskas**, Statistics: past, present, and perspectives, $\alpha + \omega$, **3**, p. 96–97.
34. **A. Skučaitė**, Life insurance as income for aging population, In: Public Policy Project *Participation in Pension Reform: Citizens, Markets, Public Institutions*. `http://politika.osf.lt/eurointegracija/santraukos/dalyvavimaspensijureformoje.htm`
35. **E. Stankus**, Divisibility of integers, In: [3], p. 8–13, 83–87.
36. **V. Stakėnas**, It will appear in the autumn..., $\alpha + \omega$, **1**, p. 31–32.
37. **V. Stakėnas**, The Bolyais from Bolya, $\alpha + \omega$, **2**, p. 49–54.
38. **V. Stakėnas**, The warmth of Pasvalys, $\alpha + \omega$, **3**, p. 12–13.
39. **V. Stakėnas**, Inverse functions: the traditional view, $\alpha + \omega$, **3**, p. 48–50.
40. **G. Stepanauskas**, Sequences, In: [3], p. 69–76, 121–126.

Other lectures and reports

1. **A. Dubickas**, Distribution of conjugates of an algebraic number, *Max-Plank-Institut für Mathematik, Bonn, Germany, October 23.*
2. **A. Dubickas**, On the distribution of conjugates of algebraic numbers, *Frankfurt University, Frankfurt, Germany, November 22.*
3. **R. Garunkštis**, On the subadditivity of the function $\pi(x)$, *Freiburg university, Germany, June 6.*
4. **R. Garunkštis**, On some inequalities concerning $\pi(x)$, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, June 11.*
5. **R. Garunkštis**, An effective universality theorem for the Riemann zeta-function, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, June 18.*
6. **R. Garunkštis**, On the Lerch zeta-function, *Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany, July 2.*
7. **R. Krasauskas**, Applications of universal parameterizations, *Dept. of Computer Science, Rice University, Houston, TX, USA, December 4.*
8. **R. Leipus**, Random coefficient autoregression, regime switching, and long memory, *Université de Lille 1, November 13.*
9. **R. Leipus**, Regime switching in AR(1) models and long memory, *Université de Lille 3, December 3.*
10. **V. Paulauskas**, Some preliminary results on multiindexed regression models, *Université de Lille 1, November 20.*
11. **V. Paulauskas**, On random convex compact sets with applications in statistics, *Université Pierre et Marie Curie (Paris VI), November 26.*
12. **A. Račkauskas**, Functional limit theorems in Hölder spaces, *Seminaire Parisien de Statistique, March 2.*
13. **A. Račkauskas**, Hölderian invariance principles and their applications, *Université de Strasbourg, March 5.*
14. **A. Račkauskas**, Invariance principles in Hölder spaces, *Seminaire de Statistique, Université Victor Segalen (Bordeaux II), March 12.*

SCIENTIFIC CONTACTS

Participation in international projects

1. **R. Baronas**, **F. Ivanauskas**. Framework–5. *Intelligent Signal Processing of Biosensor Arrays Using Pattern Recognition for Characterization of Wastewater: Aiming Towards Alarm Systems* (Intellisens, No. EN A 1 FP5RTD, Contract No. QLK3–2000–01481). 2000 10 01–2003 09 30.
2. **R. Baronas**. Working group for preparation of a specification for school library information system, Ministry of Education and Science of the Republic of Lithuania, Order No. 1845, 2002 11 11.
3. **S. Dapkūnas**, **A. Mitašiūnas**, **S. Ragaišis**. *Development of Software for Occupational Accidents Tracking and Analysis*. Contract No. 44–2814 with National Labour Inspectorate of Lithuanian Republic. 2001 08–2002 04.
4. **F. Ivanauskas**. Instruments and Standard Test Procedures for Laser Beam and Optics Characterization, Eureka-number EU2359 "Choclab II." 2000–2002.
5. **F. Ivanauskas**. Project COST No. 529: *Efficient Lighting for the 21st Century*, 2001 03 02–2006 06 07.
6. **A. Juozapavičius**. Wireless Information Management (an international network including Aalborg, Jyvaskula, Uppsala, Trondheim, Vilnius, and Vilnius Technological Universities). Financing by NORFA (Nordic Academy of Advanced Studies). 2001 01–2003 12.
7. **A. Juozapavičius**. EU project: *M-buttons: Multilingual Mathematics Context Help*. Cambridge(GB), Helsinki (FI), Kosice Technical (SK), Podlasie (PL) Universities, J. Bolyai Mathematical (HU) and Denmark Mathematics Teachers (DK) Associations. 2001 12–2003 12.
8. **R. Leipus**, **V. Paulauskas**, **A. Račkauskas**. Cooperation agreement CNRS –Lithuania *Limit Theorems for Stochastic Processes Constructed by Dependent Random Variables*.
9. **A. Mitašiūnas**, **S. Ragaišis**. *Support to the Monitoring Unit to Oversee Development of an Integrated Information Technology System Phase II in SoDra*. LI 9911-02-01-0002.
10. **A. Mitašiūnas**, **V. Undzėnas**, **S. Ragaišis**, **V. Čyras**, **A. Adamonis**, I. Naujikas. Preparatory actions 2002/12-02 for electronic signature implementation in the public sector. Contract No 2002/12-02

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 1.
2. **M. Bloznelis**. Bielefeld University. January and November.
3. **A. Dubickas**. Max-Plank-Institut für Mathematik, Germany. Research visit. October 1–November 30.
4. **R. Garunkštis**. Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany. Research visit. June 4–July 4.
5. **R. Garunkštis**. Workshop *Special Activity in Analytic Number Theory and Diophantine equations*, Max-Plank-Institut für Mathematik, Germany. June 24–28.
6. **F. Ivanauskas**. Brno, Czech Republic. International project Intelissens. April 20–23.
7. **F. Ivanauskas**. France, Tuluza. Project COST No. 529. June 1–5.
8. **F. Ivanauskas**. Spain, Alcola university. Contract No. QLK3-CT-2000-01-4881. November 14–17.
9. **A. Juozapavičius**. Conference EERC2002 , Milano, Italy. February 5–10.
10. **A. Juozapavičius**. Athens University of Economics and Business, Greece. June 17–24.
11. **A. Juozapavičius**. Denmark, Aalborg University. Seminar *Wireless Information Management*. November 23–27.
12. **A. Juozulynas**. Bielefeld university. January and November.
13. **K. Karčiauskas**. Conference *Curves and Surfaces*, Saint Malo, France. June 26–July 5.
14. **R. Krasauskas**. Rice University, Houston, TX, USA. December 2–13.
15. **J. Kubilius**. Erwin Schrödinger Institute (ESI), Viena. April 4–13.
16. **R. Leipus**. Université de Lille 1, France. November 1–30.
17. **E. Manstavičius**. Erwin Schrödinger Institute (ESI), Viena. April 4–13.
18. **A. Mitašiūnas**. La Rochelle University. ERASMUS exchange visit: Curricula development for Computer Science and Software Engineering including case study of Vilnius University. September 4–9.
19. **A. Mitašiūnas**. Roskilde Business Academy School of Computer Science. ERASMUS exchange visit: observation of 3 final exams at the Datamatician course (Advanced Computing). 2 lectures on the bachelor level informatics (computer science) and software engineering curricula at Vilnius University and on supervision of preparation of final (master and/or Datamatician) theses in informatics at Vilnius University. November 21–26.
20. **V. Paulauskas**. Visiting professor at Georgia Institute of Technology, Atlanta, USA. Lecture courses on probability theory and mathematical statistics. January 3–May 11.

21. **V. Paulauskas**. Laboratory of probability and statistics, Université de Lille 1, France. November.
22. **A. Račkauskas**. Université de Lille 1, France. January 7–March 31.
23. **G. Stepanauskas**. International Exhibition of Education, Koeln, Germany. February 17–21.
24. **G. Stepanauskas**. International Conference of University Administrators, Tartu, Estonia. May 6–7.
25. **R. Šleževičienė**. Johan Wolfgang Goethe–Universität, Frankfurt am Main, Germany. Research visit. November 24–December 8.
26. **V. Tumasonis**. Workshop ISO/IEC JTC1/SC2/WG2, Tokyo, Japan. December 6–16.

Foreign visitors

1. Prof. F. Goetze, Bielefeld University. Research visit. June.
2. Prof. Grigorii Freiman, University of Tel Aviv. Lecture on *Probabilistic methods in number theory* at the seminar of number theory. September 9–13.
3. Prof. A. Futschik, University of Vienna, Austria. Research visit. June.
4. Prof. Paul Kabaila, La Trobe University, Melbourne, Australia. Lecture *Choice of statistical model: composition of AIC and BIC*. June 13.
5. Prof. Shigeru Kanemitsu, Kyushu School of Engineering, University of Kinki. Research visit. June 9–27.
6. Huibert Kivits, Information Security Officer, ING Bank, Netherlands. *Information Security* course. May 3–17.
7. Prof. P. Lachout, Prague Charles University. Research visit (bilateral agreement between Academy of Sciences of Czech Republic and Lithuanian Academy of Sciences). June.
8. Prof. G. Morvai, Budapest Technical University. Research visit (bilateral agreement between Hungary Academy of Sciences and Lithuanian Academy of Sciences). June.
9. Kęstas Staliūnas, Physikalisch-Technische Bundesanstalt Braunschweig. Lecture on *Anticorrelation subdiffusion and* $1/f$ *noise in financial markets*. January 3.
10. Dr. Jörn Steuding, J. W. Goethe–Universität, Frankfurt am Main. Lectures in the seminar of number theory: *The mean square of the Estermann zeta-function*, *On a conjecture of Koblitz in the theory of elliptic curves*, and *Self-similarity of the Riemann zeta-function*. March 3–April 2, August 13–October 5, and December 20–January 9.
11. Profs. Charles Suquet, Marie Claude Viano, and Jurii Davydov, Université de Lille 1, France. June 23–July 5.

GRANTS

1. **R. Baronas**. European Commission 5th Framework Program Project No. QLRT-1999-31481.
2. **A. Dubickas**, **R. Garunkštis**. Lithuanian State Science and Studies Foundation grant No. 22119 (A–542) to support the research project *Value distribution of polynomials and zeta functions*.
3. **F. Ivanauskas**, **R. Baronas**. Lithuanian State Science and Studies Foundation grant T-576.
4. **F. Ivanauskas**. Lithuanian State Science and Studies Foundation grant 2879. 2002–2004.
5. **E. Manstavičius**. Lithuanian State Stipend of the Highest Rank (2001–2002).
6. **E. Misevičius**. Lithuanian State Science and Studies Foundation grant to support writing the textbook *Problems of Calculus*. I.
7. **V. Paulauskas**, **A. Račkauskas**. Lithuanian State Science and Studies Foundation grant 22705 (A–579) to support writing the textbook *Functional analysis*. 2002–2003.

APPENDIX

Publications appeared in 1997–2001

Abbreviations:

LMR	*Lietuvos Matematikos Rinkinys*
LMJ	*Lithuanian Mathematical Journal*
NAMC	*Nonlinear Analysis: Modelling and Control, ISSN 1392–5133* (Vilnius)
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	*Probability Theory and Mathematical Statistics: Proceedings of the Seventh Vilnius Conference (1998), Eds.* **B. Grigelionis** *et al., VSP/TEV, Utrecht/Vilnius, 1999.*
ProcLMS–99	*Proceedings of XL Conference of Lithuanian Mathematical Society* (a special supplement of *Lietuvos Matematikos Rinkinys*), Institute of Mathematics and Informatics, Vilnius, 1999.
ProcLMS–2000	Special issue of *Lietuvos Matematikos Rinkinys*, 2000, **40**: *Proceedings of XLI Conference of Lithuanian Mathematical Society, Šiauliai, June 22–23, 2000.*
FDS–2000	*Proceedings of III International Conference "Finite Difference Schemes: Theory and Applications," September 1–4, 2000, Palanga, Lithuania, Eds. R. Čiegis, A. Samarskii, and M. Sapagovas, IMI*, Vilnius, 2000.
ProcLMS–2001	Special issue of *Lietuvos Matematikos Rinkinys*, 2001, **41**: *Proceedings of XLII Conference of Lithuanian Mathematical Society, Klaipėda University, June 22–23, 2001.*

1997

Monographs

1. **J. Kubilius**, *Probabilistic methods in the theory of numbers*, Providence (R.I.), 1964, XVII, 182 p. – (Transl of Math. Monogr. / Amer. Math. Soc.; 11). – 2-nd print, 1968. – 3-d print with corr., 1978. – 4-th printing 1992. – 5–th printing 1997. – 182 p.

Articles: Journals with ISI Science Citation Index

1. **V. Bagdonavičius** and M. Nikulin, Transfer functionals and semiparametric regression models, *Biometrika*, 1997, **84**, p. 365–378.
2. **V. Bagdonavičius** and M. Nikulin, Asymptotic analysis of semiparametric models in survival analysis and accelerated life testing, *Statistics*, 1997, **29**, p. 261–283.
3. **V. Bagdonavičius** and M. Nikulin, Accelerated life testing when a process of production is unstable, *Stat. Probab. Letters*, 1997, **35**, p. 269–275.
4. **V. Bagdonavičius** and M. Nikulin, Sur l'application des stress en escalier dans les expériences accélérées, *Comptes Rendus Acad. Sci. Paris*, 1997, **325**, Serie I, p. 523–526.
5. V. Bentkus, **M. Bloznelis**, and F. Götze, A Berry–Esseen for M-Estimators, *Scand. J. Stat.*, 1977, **24**, p. 485–502.
6. **V. Čekanavičius**, Asymptotic expansions in the exponent: a compound Poisson approach, *Adv. Appl. Prob.*, 1997, **29**, p. 374–387.
7. **A. Laurinčikas**, On limit distribution of the Matsumoto dzeta-function, *Acta Arithm.*, 1997, **79**(1), p. 31–39.
8. **V. Mackevičius**, Convergence rate of Euler scheme for stochastic differential equations: functionals of solutions, *Math. Comp. Simul.*, 1997, **44**, p. 109–121.
9. **E. Manstavičius** and N. M. Timofeev, Functional limit theorem related to natural divisors, *Acta Mathematica Hungarica*, 1997, **75**(1–2), p. 1–13.
10. **S. Zubė**, Exceptional vector bundles on Enriques surfaces, *Mat. Zametki*, 1997, **61**, p. 825–834.

Articles: International reviewed journals and proceedings

11. **V. Bagdonavičius** and V. Nikoulina, A goodness-of-fit test for Sedyakin's model, *Romanian J. Pure Appl. Math.*, 1997, **42**(1–2), p. 5–14.
12. **V. Bagdonavičius** and M. Nikulin, Some rank tests for multivariate censored data, In: *Advances in the theory and practice of statistics: a volume in honour of Samuel Kotz*, Wiley & Sons, 1997, p. 193–207.
13. **V. Bagdonavičius** and M. Nikulin, Statistical analysis of the generalized additive semiparametric model with random covariates, *Questiio*, 1997, **21**(1-2), p. 273–291.
14. **V. Bagdonavičius** and M. Nikulin, Analysis of general semiparametric models with random covariates, *Romanian J. Pure Appl. Math.*, 1997, **42**(5-6), p. 351–369.
15. **V. Bagdonavičius** and M. Nikulin, On nonparametric estimation from accelerated experiments, In: *Proc. First Internat. Conf. Math. Methods in Reliability*, 1997, **2**, p. 288–296.
16. **A. Bastys**, Orthogonal and biorthogonal scaling functions with good translation invariance characteristic, *SAMTA'97 (Intern. Workshop Sampling Th. Appl., Aveiro, Portugal)*, 1997, p. 239–244.
17. **R. Garunkštis** and **A. Laurinčikas**, A limit theorem with weight for the Lerch zeta-function in the space of analytic functions, *Trudy Matem. Inst. V. A. Steklova ANR*, 1997, **218**, p. 109–121 (in Russian).

18. E. A. Gorin and **S. Norvidas**, Universal symbols, *Uspekhi Matem. Nauk*, 1997, **52**(3), p. 183–190 (in Russian).
19. **F. Ivanauskas** and **T. Meškauskas**, Justification of difference schemes for derivative nonlinear evolution equations, In: *Lecture Notes in Computer Science,* **1196** *(Eds. L. Vulkov, J. Wasniewski and P. Yalamov)*, Springer, 1997, p. 335–340.
20. **F. Ivanauskas** and **T. Meškauskas**, Numerical methods for derivative nonlinear evolution equations, In: *Proc. 5th Annual Seminar: "Nonlinear Phenomena in Complex Systems," Minsk, Belarus, February 12–15, 1996, Institute of Physics National Academy of Science of Belarus*, Minsk, 1997, p. 173–178.
21. B. Kaulakys and **T. Meškauskas**, On the $1/f$ fluctuations in the nonlinear systems affected by noise, *Noise in Physical Systems and* $1/f$ *fluctuations, Proc. XIV Intern. Conf.*, World Scientific, Singapore, 1997, p. 126–129.
22. **R. Krasauskas**, Universal parameterizations of some rational surfaces, In: *Curves and Surfaces with Applications in CAGD, Eds. A. Le Mehaute, C. Rabut and L. L. Schumaker*, Vanderbilt Univ. Press, Nashville, 1997, p. 231–238.
23. **A. Laurinčikas** and P. Prokopovič, On one trigonometrical system, *Proc. Scientific Conf. with Internat. Participation, September 4–5, 1997*, Prešov, Slovakia, 1997, p. 341–344.
24. **R. Leipus** and D. Rich, An option-based approach to analysing financial contracts with multiple indenture provisions, *Adv. in Futures and Options Research*, 1997, **9**, p. 1–36.

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NAME INDEX

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