

VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS
FAKULTETAS

VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS
AND INFORMATICS

Research
and
Publications
Report
2007

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FACULTY OF MATHEMATICS AND INFORMATICS

<http://www.mif.vu.lt>

Dean Prof. Feliksas Ivanauskas

tel. (370–5) 219 30 50, fax. (370–5) 215 15 85

feliksas.ivanauskas@mif.vu.lt

DEPARTMENT OF MATHEMATICAL ANALYSIS*

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

Head Prof. Vygantas Paulauskas

tel. (370–5) 219 30 83

vygantas.paulauskas@mif.vu.lt

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

G. Bakštys. Actuarial mathematics. gintaras.bakstys@mif.vu.lt

P. Banys. Doctoral student. povilas.banys@if.lt

R. Ivanovaitė. Doctoral student: actuarial mathematics. rasa.ivanovaitė@seesam.lt

A. Juozulynas. Limit theorems for stable laws (convergence rates and asymptotic expansions). almantas@sintagma.lt

A. Klivečka. Doctoral student: statistics for estimating of roughness of random functions. a.klivecka@sigmatelas.lt

A. Lenkšas. Numerical solution of SDEs. sparnai@gmail.com

K. Liubinskas. Convergence rates in limit theorems of probability theory. kestutis.liubinskas@mif.vu.lt

V. Mackevičius. Stochastic analysis. Stochastic numerics. vigirdas.mackevicius@mif.vu.lt, <http://www.mif.vu.lt/~vigirdas>

M. Manstavičius. Levy processes, path properties of random processes. martynas.manstavicius@mif.vu.lt

*The departments are listed in the order of foundation.

E. Misevičius. Mathematical analysis. edvardas.misevicius@mif.vu.lt

V. Paulauskas. Probability limit theorems in functional spaces. Approximations of multidimensional stable laws. Autoregressive models. Random fields

vygantas.paulauskas@mif.vu.lt

A. Petrov. Doctoral student: Numerical solution of SDEs. andrej.petrov@mif.vu.lt

A. Plikusas. Sampling in official statistics. Regression ratio estimators.

plikusas@ktl.mii.lt

A. Skučaitė. Actuarial mathematics. Stochastic modeling of insurance processes.

askucaite@mail.lt

D. Surgailis. Long memory, fractional integration, self-similar processes, financial mathematics.

sdonatas@ktl.mii.lt

R. Zovė. Doctoral student: random Cantor-type sets.

rzove@centras.lt

Publications. Journals with ISI SC Index – 5; Intern. reviewed journals, books, and ISI proceedings – 0; Lithuanian licensed issues – 8; Other journals and proceedings – 0; Submitted – 3.

DEPARTMENT OF DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS

<http://www.mif.vu.lt/katedros/dlsm/homea>

Head Prof. Vladas Skakauskas

tel. (370–5) 219 30 84

vladas.skakauskas@mif.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.ambrazevicius@mif.vu.lt

V. Daukšas. Optimization methods.

vaclovas.dauksas@mif.vu.lt

J. Degutis. Spectral problems of ODEs.

juzas.degutis@mif.vu.lt

A. Domarkas. Solvability of nonlinear Schrödinger-type equations.

aleksas.domarkas@mif.vu.lt

P. Katauskis. Solvability of parabolic-type PDEs.

pranas.katauskis@mif.vu.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@mif.vu.lt

V. Skakauskas. Population dynamics.

vladas.skakauskas@mif.vu.lt

D. Sūdžiūtė. Theory of games.

daina.sudziute@mif.vu.lt

L. Zaleskis. Doctoral student: Navier–Stokes equations.

lzaleskis@yahoo.com

Publications. Journals with ISI SC Index – 5; Intern. reviewed journals, books, and ISI proceedings – 0; Lithuanian licensed issues – 5; Other journals and proceedings – 0; Submitted – 2.

DEPARTMENT OF PROBABILITY THEORY AND NUMBER THEORY

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

Head Prof. Antanas Laurinčikas

tel. (370–5) 219 30 79

antanas.laurincikas@mif.vu.lt

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

G. Alkauskas. Doctoral student: Problems of analytic number theory.

giedrius.alkauskas@maths.nottingham.ac.uk, <http://alkauskas.ten.lt>

V. Balinskaitė. Doctoral student: Value distribution of Mellin transforms.

violeta.balinskaite@mif.vu.lt

R. Bastys. Doctoral student: Data compression.

rbastys@yahoo.com

E. Bieliauskienė. Doctoral student: Analysis of the finite time ruin probability.

P. Drungilas. Doctoral student: Algebraic numbers, polynomials.

pdrungilas@gmail.com, <http://uosis.mif.vu.lt/~drungilas>

A. Dubickas. Algebraic numbers, distribution modulo 1.

arturas.dubickas@mif.vu.lt, <http://www.mif.vu.lt/~dubickas>

R. Garunkštis. Analytic number theory. Zeta-functions.

ramunas.garunkstis@mif.vu.lt, <http://www.mif.vu.lt/~garunkstis>

- R. Ivanauskaitė.** Doctoral student: zeta-functions of cusp forms.
iv.ruta@gmail.com
- H. Jasiūnas.** History of mathematics.
henrikas.jasiunas@mif.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/ja/ja_a
- A. Javtokas.** Doctoral student: Nonclassical zeta-functions.
ajavtokas@math.com,
<http://uosis.mif.vu.lt/~javtokas>
- A. Kačėnas.** Value distribution of the Riemann zeta-function.
audrius.kacenas@mif.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/ka/ka_a
- J. Karaliūnaitė.** Doctoral student: Moments of zeta-functions.
karaljul@gmail.com
- T. Kargina.** Doctoral student: Limit theorems for random combinatorial structures.
tatjana.kargina@if.lt
- J. Kočetova.** Doctoral student: Discounted penalty function.
kocetova@gmail.com
- A. Kolupajeva.** Doctoral student: Twists of L -functions.
- J. Kubilius.** Analytic and probabilistic number theory. History of mathematics.
jonas.kubilius@mif.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/ku/ku_a
- A. Laurinčikas.** Analytic and probabilistic number theory. Value distribution of zeta-functions.
antanas.laurincikas@mif.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/lau/lau_a
- E. Manstavičius.** Probabilistic number theory. Analytic and probabilistic combinatorics.
eugenijus.manstavicius@mif.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/man/man_a
- H. Markšaitis.** Algebraic number theory and the Galois theory.
hamletas.marksaitis@mif.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/mar/mar_a
- G. Misevičius.** Probabilistic theory of expansions of numbers and functions.
gintautas.misevicius@mif.vu.lt, http://www.mif.vu.lt/katedros/ttsk/bylos/mis/mis_a
- J. Norkūnienė.** Doctoral student: The laws of iterated logarithm in probabilistic combinatorics.
jolita.norkuniene@mif.vu.lt
- T. Plankis.** Doctoral student: Computer calculations in number theory.
topl@hypernet.lt
- J. Šiaulys.** Limits laws in probabilistic number theory. The insurance mathematics.
jonas.siaulys@mif.vu.lt,
http://www.mif.vu.lt/katedros/ttsk/bylos/siau/siau_a
- S. Zamarys.** Doctoral student: moments of L -functions.

Publications. Journals with ISI SC Index – 25; Intern. reviewed journals, books, and ISI proceedings – 15; Lithuanian licensed issues – 11; Other journals and proceedings – 0; Submitted – 9.

DEPARTMENT OF MATHEMATICAL STATISTICS

<http://www.mif.vu.lt/katedros/msk>

Head Prof. Vilijandas Bagdonavičius

tel. (370–5) 219 30 65

vilijandas.bagdonavicius@mif.vu.lt

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

V. Bagdonavičius. Reliability theory. Mathematical statistics, survival analysis, and their applications. vilijandas.bagdonavicius@mif.vu.lt

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

V. Čiočys. Mathematical models of economics.

R. Eidukevičius. Mathematical modeling. Experimental planning and statistical analysis in oncology. rimantas.eidukevicius@sc.vu.lt

V. Kazakevičius. Mathematical statistics. Nonlinear stochastic dynamic systems. vytautas.kazakevicius@mif.vu.lt

J. Kruopis. Mathematical statistics, quality control, and their applications. julius.kruopis@mif.vu.lt

R. Levulienė. Mathematical statistics, reliability, survival analysis. ruta.levuliene@mif.vu.lt

I. Masiulaitytė. Doctoral student.

R. Maslovskis. Doctoral student.

R. Paulauskas. Doctoral student.

V. Skorniakov. Doctoral student.

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

J. Turkuvienė. Doctoral student.

M. Vaičiulis. Statistical analysis of stochastic processes. marijus@ktl.mii.lt

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

A. Zaikina. Doctoral student.

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

DEPARTMENT OF COMPUTER SCIENCE

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

Head Doc. Antanas Mitašiūnas

tel. (370–5) 219 30 75

antanas.mitasiunas@mif.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. Support and maintenance process modeling.

andrius.adamonis@mif.vu.lt

A. Birštunas. Multi-agent modal logics.

adomas.birstunas@mif.vu.lt

V. Dičiūnas. Neural networks. Complexity of algorithms.

valdas.diciunas@mif.vu.lt

A. Janeliūnas. Neural net based classification algorithms. Object-oriented database systems.

arunas.janeliunas@vzinios.lt

A. Mitašiūnas. Software process. Electronic signature.

antanas.mitasiunas@mif.vu.lt

S. Norgėla. Automated theorem proving.

stasys.norgela@mif.vu.lt

Š. Raudys. Neural networks. Statistical and neural classifiers.

raudys@ktl.mii.lt

A. Šalaviejiė. Artificial intelligence.

anze@fvs.lt

G. Skersys. Error-correcting codes.

gintaras.skersys@mif.vu.lt

A. Svirskas. Collaborative process automation support using service level agreements and intelligent dynamic agents. Choreographed B2B collaboration: service-oriented frameworks for adaptable, manageable, secure, and trusted interactions.

adomas.svirskas@mif.vu.lt

V. Tumasonis. Comparison of programming languages. Computer algebra. IT standards.

vladas.tumasonis@mif.vu.lt

R. Vaicekauskas. Numerical solution of Schrödinger equations.

rimantas.vaicekauskas@mif.vu.lt

J. Žagūnas. Structured documents converting.

jonas.zagunas@mif.vu.lt

I. Žliobaitė. Doctoral student. Pattern recognition under concept drift.

zliobaite@gmail.com

Publications. Journals with ISI SC Index – 0; Intern. reviewed journals, books, and ISI proceedings – 2; Lithuanian licensed issues – 5; Other journals and proceedings – 2; Submitted – 0.

DEPARTMENT OF DIDACTICS OF MATHEMATICS AND INFORMATICS

<http://www.mif.vu.lt/katedros/mmk/index.html>

Head Doc. Eugenijus Stankus

tel. (370–5) 219 30 86

eugenijus.stankus@mif.vu.lt

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

A. Apynis. Game theory. Social decisions. Didactics of mathematics.

antanas.apynis@mif.vu.lt

V. Dagienė. Computer science.

dagiene@ktl.mii.lt

A. Elijo. Statistical educational surveys and their analysis, sample design issues. Mathematically gifted students.

aiste.elijio@gmail.com

E. Gaigalas. Quadratic forms. Problems of mathematical education.

edmundas.gaigalas@mif.vu.lt

R. Kudžma. Mathematical analysis. Didactics of mathematics, semiotics. Actuarial mathematics.

ricardas.kudzma@mif.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@mif.vu.lt

R. Laucius. Programming teaching.

rimga@ktl.mii.lt

Š. Repšys. Dynamic models of physiological structure of population.

sarunas.repsys1@mif.vu.lt

E. Stankus. Analytic number theory. Probabilistic number theory. Didactics of mathematics.

eugenijus.stankus@mif.vu.lt

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

DEPARTMENT OF COMPUTER SCIENCE II

<http://www.mif.vu.lt/katedros/cs2/katedhp>

Head Prof. Feliksas Ivanauskas

tel. (370–5) 219 30 91

feliksas.ivanauskas@mif.vu.lt

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

T. Anbinderis. Doctoral student: Computer linguistics (Text-to-Speech Synthesis). bsa@takas.lt

A. Bastys. Medical signal analysis, image recognition. algirdas_bastys@yahoo.com

A. Brilingaitė. Geo-context in location-based services, spatio-temporal databases, geographic information systems, and intelligent transportation systems.

agne.brilingaite@mif.vu.lt

L. Bukauskas. Database support for visual data mining, indexing of visible objects, information retrieval, with the focus on disseminating database content on WWW, position oriented context retrieval in mobile service setting, spatio-temporal databases, and ER modeling.

linas.bukauskas@mif.vu.lt

L. Būtėnas. Doctoral student: context extraction from semi-structural and textual information.

linas.butenas@mif.vu.lt

A. Čivilis. Managing moving objects in location-based services, spatial data mining, and geographic information systems.

alminas.civilis@mif.vu.lt

E. Garška. Applications of computer animation, fundamentals of sensor, physical phenomena in solid-acoustic resistance.

evaldas.garska@mif.vu.lt

F. Ivanauskas. Numerical analysis of nonlinear diffusion equations. Modeling of physical problems.

feliksas.ivanauskas@mif.vu.lt

J. Ignatavičiūtė. Stochastic methods in image processing.

jolita.ignataviciute@mif.vu.lt

V. Jasaitis. Doctoral student: The mathematical modeling of reaction and diffusion in biosensor.

valdas.jasaitis@gmail.com

A. Juozapavičius. Algorithms of computer vision and computer graphics, applications in databases and Internet-based systems.

algimantas.juozapavicius@mif.vu.lt

K. Karčiauskas. Computer-aided geometric design. Multisided rational surface patches.

kestutis.karciauskas@mif.vu.lt

P. Kasparaitis. Speech synthesis.

pkasparaitis@yahoo.com

- I. Kaunietis.** Investigation of amperometric biosensor response.
irmantas.kaunietis@ktu.lt
- M. Kazakevičiūtė.** Computer-aided geometric design.
margarita.kazakeviciute@mif.vu.lt
- A. Kisel.** Doctoral student: fingerprint identification, fingerprint synthesis.
andrej.kisel@mif.vu.lt
- V. Kiško.** Doctoral student: computational modeling of electric conductivity in a membrane of a cell.
viktor.kisko@mif.vu.lt
- A. Kočetkov.** Doctoral student: biometric systems, fingerprint recognition.
alexej@takas.lt
- J. Kranauskas.** Doctoral student: face localization and recognition, feature extraction for real-time object detection.
justas@atrodo.com
- R. Krasauskas.** Computer-aided geometric design. Applications of algebraic geometry and topology.
rimvydas.krasauskas@mif.vu.lt
- E. Kutka.** Doctoral student: data mining in network calculus, computer networks.
eduardas.kutka@mif.vu.lt
- T. Lipnevičius.** Doctoral student: Computer Vision and Medical Imaging.
tomas.lipnevicius@gmail.com
- R. Markauskas.** Doctoral student.
ramunas.markauskas@gmail.com
- R. Masiulis.** Doctoral student: iris recognition.
rokas.masiulis@mif.vu.lt
- T. Meškauskas.** Numerical analysis of nonlinear evolutionary models; $1/f$ noise.
tadas.meskauskas@mif.vu.lt
- K. Mickus.** Visualization algorithms for indices of mobile and fast moving objects.
kazimieras.mickus@mif.vu.lt
- S. Narkevičius.** Computer-aided geometric design. Subdivision surfaces.
saulius.narkevicius@mif.vu.lt
- K. Navickis.** Intrinsic normalizations of distributions of flags on grassmannians of affine spaces.
kazimieras.navickis@mif.vu.lt
- M. Pelanis.** Data structures and algorithms for temporal data and indexing the history of moving objects.
mindaugas.pelanis@mif.vu.lt
- G. Povilavičius.** Doctoral student: computer linguistics.
gpovilav@takas.lt
- M. Puida.** Doctoral student: modeling of laser beam phase.
mantasp@azuolas.ktu.lt
- V. Rapševičius.** Algorithms and models for data mining and pattern recognition in geology.
v.rapsevicius@it.lt
- T. Sakalauskas.** Doctoral student: real-time computer graphics methods.
tomas.sakalauskas@prewise.lt
- O. Štikonienė.** Numerical methods for nonlinear PDEs and problems with nonlocal boundary conditions.
olgast@ktl.mii.lt

S. Zubė. Algebraic geometry; curves and surfaces; computer-aided geometric design; subdivision, number theory. severinas.zube@mif.vu.lt

Publications. Journals with ISI SC Index – 9; Intern. reviewed journals, books, and ISI proceedings – 12; Lithuanian licensed issues – 6; Other journals and proceedings – 3; Submitted – 0.

DEPARTMENT OF SOFTWARE ENGINEERING

<http://www.mif.vu.lt/katedros/se/WelcOMESE>

Head Prof. Romas Baronas

tel. (370–5) 219 30 64

romas.baronas@mif.vu.lt

The department supervises the software engineering study program. The research areas of the department include software process, software engineering methods and tools, teaching software engineering, software quality management, business process modelling, information systems modelling, human-computer interaction, open queuing networks, message switching systems, computational modelling of physical-chemical processes, information security, electronic signature.

R. Baronas. Computer simulation of nonlinear diffusion and reaction processes.

romas.baronas@mif.vu.lt, <http://www.mif.vu.lt/~baronas>

D. Čiukšys. Business process ontology, business process knowledge reuse, software systems architecture. donatas.ciuksys@mif.vu.lt, <http://www.mif.vu.lt/~donatas>

V. Čyras. Legal informatics: formalisation of the notion of goal. Computer science: data dependencies in loop programs; approaches to programming with recurrences. Information systems: goal-oriented requirements engineering. Aircraft collision probability and decision support system.

vytautas.cyras@mif.vu.lt, <http://www.mif.vu.lt/~cyras>

S. Dapkūnas. Information system design. Evaluation of software products.

sigitas.dapkunas@sc.vu.lt

A. Dienys. Software process, Project Management, Software Quality Management. andrius@dienys.lt

A. Kurtinaitis. Computer models of physical processes. Visualization of scientific data Database management systems.

andrius.kurtinaitis@mif.vu.lt, <http://www.mif.vu.lt/~andrius>

K. Lapin. Human computer interaction, teaching of informatics and mathematics.

kristina.lapin@mif.vu.lt, <http://www.mif.vu.lt/~moroz/lapin>

S. Ragaišis. Software process modeling, assessment and improvement. Software engineering education. saulius.ragaisis@mif.vu.lt

V. Undžėnas. Electronic signature.

valdas.undzenas@sc.vu.lt

M. Žilinskas. Enterprise architecture, effective data processing.

mzilinskas@gmail.com

Publications. Journals with ISI SC Index – 5; Intern. reviewed journals, books, and ISI proceedings – 7; Lithuanian licensed issues – 2; Other journals and proceedings – 0; Submitted – 4.

DEPARTMENT OF ECONOMETRIC ANALYSIS

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

Head Prof. Alfredas Račkauskas

tel. (370–5) 219 30 76

alfredas.rackauskas@mif.vu.lt

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

D. Celov. Doctoral student: long-memory time series models in macroeconomics.

dcelov@ktl.mii.lt

V. Čėkanavičius. Signed compound Poisson approximations. Kolmogorov's problem.

vydas.cekanavicius@mif.vu.lt

M. Juodis. Doctoral student: limit theorems for dependent random variables.

juodis@centras.lt

J. Kelmelytė. Doctoral student.

jurate.kelmelyte@stat.gov.lt

V. Kvedaras. Macroeconometrics.

virmantas.kvedaras@mif.vu.lt

R. Lapinskas. Regression methods in ecology and medicine.

remigijus.lapinskas@mif.vu.lt

R. Leipus. Financial mathematics and econometrics. Time series analysis.

remigijus.leipus@mif.vu.lt, <http://www.mif.vu.lt/~remis>

A. Maldeikienė. Macroeconomics.

ausra.maldeikiene@mif.vu.lt, maldeikiene@gmail.com

V. Maniušis. Empirical characteristic functions.

vtas@hotmail.com

G. Murauskas. Information systems. Computer statistics; online education of statistics. SQL databases and WWW.

gediminas.murauskas@mif.vu.lt, <http://www.ts.vu.lt>

R. Norvaiša. Financial analysis, probability theory, financial mathematics and mathematical economics.

norvaisa@ktl.mii.lt

M. Pranckėvičiūtė. Doctoral student.

m.pranckeviciute@gmail.com

A. Račkauskas. Probability limit theorems in functional spaces, applications in statistics and econometrics. alfredas.rackauskas@mif.vu.lt,

<http://www.mif.vu.lt/katedros/eka/asm-psl/alfredas/alfredas>

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

I. Rastėnė. Doctoral student: testing epidemic change in autoregressive processes. irma.rastene@mif.vu.lt

M. Valužis. Doctoral student: mathematical models in pricing of credit derivatives. mvaluzis@gmail.com

V. Zemlys. Doctoral student: functional limit theorems for summation processes. vaidotas.zemlys@mif.vu.lt

D. Zuokas. Testing epidemic change in mean and variance. danas.zuokas@mif.vu.lt

Publications. Journals with ISI SC Index – 7; Intern. reviewed journals, books, and ISI proceedings – 4; Lithuanian licensed issues – 10; Other journals and proceedings – 0; Submitted – 7.

DEPARTMENT OF MATHEMATICAL COMPUTER SCIENCE

<http://www.mif.vu.lt/katedros/matinf/indexa>

Head Prof. Mindaugas Bloznelis

tel. (370–5) 219 30 72

[mindaugas\[.\]bloznelis\[at\]maf\[.\]vu\[.\]lt](mailto:mindaugas[.]bloznelis[at]maf[.]vu[.]lt)

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

G. Bareikis. Arithmetical functions in the polynomial semigroup.

gintautas.bareikis@mif.vu.lt,

http://www.mif.vu.lt/katedros/matinf/asm/bg/bg_a

M. Bloznelis. Probability limit theorems, combinatorial statistics, random graphs.

[mindaugas\[.\]bloznelis\[at\]maf\[.\]vu\[.\]lt](mailto:mindaugas[.]bloznelis[at]maf[.]vu[.]lt),

<http://www.mif.vu.lt/katedros/matinf/asm/mb/mba>

A. Čiginas. Doctoral student: approximations to distributions of finite population statistics. andrius.ciginas@mif.vu.lt

R. Grigutis. Structure of homogeneous Abelian groups of finite rank.

rimentas.grigutis@mif.vu.lt,

http://www.mif.vu.lt/katedros/matinf/asm/gr/gr_a

- A. Mačiulis.** Mean values and limit theorems for arithmetic functions.
algirdas.maciulis@mif.vu.lt,
http://www.mif.vu.lt/katedros/matinf/asm/ma/ma_a
- V. Stakėnas.** Probabilistic number theory, functions of Farey fractions.
vilius.stakenas@mif.vu.lt,
<http://www.mif.vu.lt/katedros/matinf/asm/vs/vs0>
- G. Stepanauskas.** Mean values and limit theorems for arithmetic functions.
gediminas.stepanauskas@mif.vu.lt,
http://www.mif.vu.lt/katedros/matinf/asm/ste/ste_a
- V. Zacharovas.** Probabilistic combinatorics. vytas.zacharovas@mif.vu.lt,
http://www.mif.vu.lt/katedros/matinf/asm/ste/ste_a
<http://www.mif.vu.lt/~vytzach/en/index>

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4. **M. Juodis**. Limit Theorems for Weakly Dependent Variables. Advisor prof. **A. Račkauskas**.
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6. **J. Norkūnienė**. The Laws of Iterated Logarithm for Combinatorial Structures. Advisor prof. **E. Manstavičius**.
7. **V. Rapševičius**. Data Mining of Geochemical and Lithological Silurian Data of Lithuania. Advisor doc. **A. Juozapavičius**.
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Abbreviations:

<i>LMR</i>	<i>Lietuvos Matematikos Rinkiny</i> s
<i>LMJ</i>	<i>Lithuanian Mathematical Journal</i> *
<i>NAMC</i>	<i>Nonlinear Analysis: Modelling and Control</i> , ISSN 1392–5133 (Vilnius)
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9. **V. Čyras**, F. Lachmayer, On formal notation of the teleological structure of law, *Law and Legal Cultures in the 21st Century: Diversity and Unity: XXIII World IVR Congress Philosophy of Law and Social Philosophy, 2007, Kraków*, 99–100.
10. **P. Drungilas**, Unimodular roots of reciprocal Littlewood polynomials, *Analytic and Combinatorial Methods in Number Theory and Geometry, October 22–26, 2007, Iraklio, Crete, Greece*.

11. **P. Drungilas**, Unimodular roots of reciprocal Littlewood polynomials, *Intern. Conf. Number Th. "Journées Arithmétiques," July 2–6, 2007, Edinburgh, UK.*
12. **P. Drungilas**, Unimodular roots of reciprocal Littlewood polynomials, *PhD Summer School in Number Theory and Probability, September 17–22, 2007, Druskininkai, Lithuania.*
13. **A. Dubickas**, On the set of roots of $-1, 0, 1$ polynomials, *Intern. Conf. "Diophantine and Analytic Problems in Number Theory", January 29–February 2, 2007, Moscow, Russia, Abstracts, 2007, p. 15, Invited lecture.*
14. **A. Dubickas**, Sumsets without powers, *Intern. Conf. "Diophantine Approximation," January 9–12, 2007, Minsk, Belarus, Plenary lecture.*
15. **A. Dubickas**, On the powers of a number modulo 1, *Intern. Conf. Number Theory and Cryptography, February 23–27, 2007, Allahabad, India., Invited lecture.*
16. **A. Dubickas**, On the powers of a fixed number modulo 1, *Journée Diophantienne, June 5, 2007, Strasbourg, France, Invited lecture.*
17. **A. Dubickas**, On the powers of a number modulo 1, *RIMS Symp. Analytic Number Theory and Related Areas, October 17–19, 2007, Kyoto, Japan, Invited lecture.*
18. **A. Dubickas**, Polynomials with positive coefficients, *PhD Summer School in Number Theory and Probability, September 17–22, 2007, Druskininkai, Lithuania.*
19. **E. Gaidamauskaitė**, The development of computer models for biosensors, *Proc. Conf. "Days of Computer Professionals and Users – 2007," September 13–15, 2007, Panevėžys, Lithuania, 2007, 55–56.*
20. **R. Garunkštis**, On the zeros of the Hurwitz zeta-function, *PhD Summer School in Number Theory and Probability, September 17–22, 2007, Druskininkai, Lithuania.*
21. **R. Garunkštis**, On the zeros of the Hurwitz zeta-function, *Analytic and Combinatorial Methods in Number Theory and Geometry, October 22–26, 2007, Iraklio, Crete, Greece.*
22. A. Gavrilov, **S. Ragaišis**, Team software process capability assessment, *Proc. Conf. Information Technologies 2007, Kaunas, Lithuania, 447–451 (in Lithuanian).*
23. **R. Ivanauskaitė, A. Laurinčikas, R. Macaitienė**, One application of differential equation, *1st Intern. Conf. "Mathematical Modeling and Differential Equations," October 2–5, 2007, Minsk, Abstracts, 2007, p. 75–76.*
24. **F. Ivanauskas, R. Baronas**, Modelling an amperometric biosensor acting in a flowing liquid, *ICFD 2007: Conf. Numerical Methods for Fluid Dynamics, March 26–29, 2007, University of Reading, Book of Abstracts (Posters), 79–80.*
25. **F. Ivanauskas, R. Baronas**, An application of numerical simulation to the optimum design of highly sensitive and stable biosensors, *ICCOPT 07–MOPTA 07: 2nd Mathematical Programming Society Intern. Conf. on Continuous Optimization, Modelling and Optimization: Theory and Applications, August 13–16, 2007, McMaster University, Hamilton, Ontario, Canada, p. 36.*

26. **F. Ivanauskas, R. Baronas**, Numerical simulation of a plate-gap biosensor with an outer porous membrane, *EUROSIM 2007, Proc. VI EUROSIM Congress Modeling and Simulation, September 9–13, 2007, Ljubljana, Slovenia*, Book of Abstracts, Ljubljana, 2007, **1**, p. 410.
27. **F. Ivanauskas, T. Meškauskas**, M. Sapagovas, Stability of difference schemes for two-dimensional parabolic equations with nonlocal boundary conditions, *XII Intern. Conf. Mathematical Modelling and Analysis, May 30–June 2, 2007, Trakai, Lithuania*.
28. **V. Jasaitis, A. Malinauskas, F. Ivanauskas**, Modeling reactant concentration in electrocatalytic processes at conducting polymer modified electrodes, *XII Intern. Conf. Mathematical Modeling and Analysis, May 30–June 2, 2007, Trakai, Lithuania*.
29. **V. Jasaitis, F. Ivanauskas**, Modelling of charge carriers' movement at conducting polymer modified electrodes, *XX Nordic Sem, Computat. Mechanics, NSCM 20*.
30. **R. Kašuba**, Challenges for all who are involved or some remarks about Newton's third law in education, *Gifted children: challenges and possibilities: Intern. Sc. Conf., Kaunas Univ. of Technology, Abstracts, Kaunas, 2007, 51–52*.
31. **R. Kudžma**, Recognition test in mathematical and other texts, *Workshop on Mathematics and Language, April 26–27, 2007, Upsala, Sweden*.
32. **R. Kudžma**, Visual expression of mathematical text, *VIII Intern. Conf. Teaching Mathematics: Retrospective and Perspectives, May 10–11, 2007, Riga, Latvia*.
33. **E. Kutka, G. Stepanauskas**, Traveling salesman problem in calculations of cargo transportation routes, *XI Intern. Conf. , October 18–19, 2007, Kaunas, Lithuania*.
34. **A. Laurinčikas**, Some joint theorems for periodic Hurwitz zeta-functions, *Intern. Sc. Conf. "Diophantine and Analytic Problems in Number Theory" dedicated to the 100th birthday of A.O. Gelfond (1906–1968), January 29–February 2, 2007, Moscow, Russia*, Abstracts, 2007, p. 21.
35. **A. Laurinčikas**, Some value distribution theorems on the Estermann zeta-function, *Intern. Conf. Algebra and Number Theory Dedicated to the 80th Anniversary of V.E. Voskresenskii, May 21–25, 2007, Samara, Russia*, Abstracts, 2007, 59–60. Plenary lecture.
36. **A. Laurinčikas**, The joint universality of zeta-functions with periodic coefficients VI *Intern. Algebraic Conf., Ukraine, July 1–7, Kamyanets–Podilsky, Ukraine*, Abstracts, 2007, 122–123. Plenary lecture.
37. **A. Laurinčikas**, Some value distribution theorems for zeta-functions of normalized eigenforms, *XVIII Czech and Slovak Intern. Conf. Number Theory, August 27–31, 2007, Smolenice, Slovakia*.
38. **A. Laurinčikas, R. Macaitienė**, The Lerch zeta-function with algebraic irrational parameter, *Intern. Algebraic Conf. Dedicated to the 100th Anniversary of D.K. Faddeev, September 24–29, 2007, St. Petersburg, Russia*, Abstracts, 2007, 131–133.

39. **A. Laurinčikas**, Functional independence of zeta-functions, *Intern. Conf. "Diophantine Approximation,"* January 9–12, 2007, Minsk, Belarus.
40. **A. Laurinčikas**, Universality of zeta-functions with periodic coefficients, *PhD Summer School in Number Theory and Probability,* September 17–22, 2007, Druskininkai, Lithuania.
41. **R. Leipus**, Time series aggregation, disaggregation and long memory, *Intern. Conf. "Statistical Models for Financial Data II,"* May 22–27, 2007, Graz, Austria.
42. **E. Manstavičius**, Additive and multiplicative functions on the symmetric group, *VI Intern. Algebraic Conf., Ukraine,* July 1–7, 2007, Kamyanets-Podilsky, Ukraine, Abstracts, 2007, p. 134–135.
43. **E. Manstavičius**, Stochastic play with random permutations, *Slovak–Austrian Math. Congress,* September 16–21, 2007, Podbanske, Plenary lecture.
44. **M. Manstavičius**, Hausdorff–Besicovitch dimension of graphs and p -variation of some Levy processes (poster presentation), *V Intern. Conf. "Levy Processes: Theory and Applications,"* 2007, August 13–17, Copenhagen, Denmark.
45. **I. Masiulaitytė**, Estimation of some inequality indexes, *2nd Baltic–Nordic Conf. Survey Sampling 2007,"* Kuusamo, Finland.
46. **I. Masiulaitytė**, V. Balinskaitė, Measuring imputed rent in EU-SILC Survey, *European Survey Research Association Conf. 2007,* Prague, Czech. Republic.
47. **A. Mitašiūnas**, V. Žekonis. System for electronic servicing of insured, *IX Intern. Conf. "Information Society: Innovative Technologies for Business and Education,"* October 23–27, 2007, Vilnius, Lithuania.
48. **K. Moroz Lapin**, O. Rakovskaja, Combining the interaction styles top display complex data in decision-making system, *The Poster Proc. XV Intern. Conf. in Central Europe on Computer Graphics, Visualization and Computer Vision 2007 (in cooperation with Eurographics),* 9–12.
49. **K. Pileckas**, Solvability of the Cauchy problem for the Navier–Stokes equations in R^3 for some class of initial data, *Intern. Conf. Math. Fluid Mechanics,* May 20–25, 2007, Lisbon, Portugal, Book of Abstracts, p. 49–50.
50. **M. Puida**, **F. Ivanauskas**, I. Ignatjev, G. Valinčius, V. Razumas, Computational Modeling Amperometric Bioanalytical system for Lipase Activity Assay: a time-dependent response, *XII Intern. Conf. Mathematical Modelling and Analysis,* May 30–June 2, 2007, Trakai, Lithuania.
51. **M. Puida**, **F. Ivanauskas**, V. Razumas, Computational modeling of the substrate wash off in electrobionalytical system, *Proc. XX Nordic Sem. Computat. Mechanics NSCM 20.*
52. **A. Račkauskas**, Testing changed segment, *Intern. Sem.,* April 22–25, 2007, Univ. of Economics in Katowice, Poland.

53. **Š. Repšys, V. Skakauskas**, Modeling population dynamics with child care, *XII Intern. Conf. "Mathematical Modelling and Analysis," May 30–June 2, 2007, Trakai, Lithuania*, Abstracts, p. 78.
54. **Š. Repšys, V. Skakauskas**, Modelling of a one-sex age-structured population, *2d Conf. Computat. Math. Population Dynamics: CMPD2, July 16–20, 2007, Campinas, Brazil*, Book of Abstracts, 2007, p. 126.
55. **Š. Repšys**, Modelling of a one-sex age-structured population dynamics with discrete set of offsprings, *Intern. Conf. Dynamic Methods and Math. Modeling, Dm307, in Honour of Russel Johnson's 60th Birthday, September 18–22, 2007, Valladolid, Spain*, Abstracts, p. 30.
56. **V. Skakauskas**, A population dynamics model with discrete set of offsprings and child care, *Ecol. Complexity Sustainability*, Abstracts of EcoSummit, Beijing, 2007, p. 317.
57. **E. Stankus**, Nontraditional problems of Probability Theory, *Conf. Math. Teachers, March 16, 2007, Pakruojis, Lithuania*.
58. **E. Stankus**, On Faculty of Mathematics and Informatics, on Lithuanian School for Young Mathematicians and Probability Theory, *Conf. Math. Teachers March 29, 2007, Rietavas, Lithuania*.
59. **E. Stankus**, Elementary econometrics, *Sem. Math. Teachers, November 23, 2007, Pasvalys, Lithuania*.
60. **E. Stankus**, On the university and econometrics, *Alytus Reg. Conf. Math. Teachers, December 2, 2007, Simnas, Lithuania*.
61. **E. Stankus**, On the Paradoxes in the Probability Theory, *Sem. Math. Teachers, December 8, 2007, Rietavas, Lithuania*.
62. **D. Surgailis**, The Increment Ratio test for long memory, *Intern. Conf. "Statistical Models for Financial Data II," May 22–27, 2007, Grace, Austria*.
63. **A. Svirskas**, J. Isachenkova, R. Molva, Towards secure and trusted collaboration environment for European public sector TrustCol-2007, *2nd Intern. Workshop on Trusted Collaboration, November 12–15, 2007, New York, USA*.
64. **V. Tumasonis**, Lithuanian accented letters: encoding and input from the keyboard, *XIII Intern. Sc. Conf., September 13–15, 2007, Panevėžys, Lithuania*.
65. **D. Zuokas, A. Račkauskas**, New tests of heteroskedasticity in linear regression models, *Intern. Conf. ASMDA 2007, May 27–June 2, 2007, Chania, Greece*.

Books, textbooks, lecture notes (in Lithuanian)

1. Analytic and Probabilistic Methods in Number Theory, *Proceedings of the Fourth Intern. Conf. in Honour of J. Kubilius, Palanga, Lithuania, 25–29 September 2006*, (Eds. **A. Laurinčikas** and **E. Manstavičius**), *TEV*, Vilnius, 2007, 256 p.
2. **V. Bagdonavičius** and **J. Kruopis**, Mathematical Statistics. Part 1, *Vilnius University Press*, 2007, 359 p.
3. O. Blanchard, Macroeconomics, translated by **A. Maldeikienė** and **G. Rekutė**, Vilnius, *Tyto Alba*, 2007, 670 p.
4. **S. Dapkūnas**, Software Quality, Vilnius, 2007.
5. **V. Dičiūnas**, Advanced Topics of Discrete Structures, Vilnius, *Internet Issue*, Vilnius, 2007, 199 p.
6. **R. Garunkštis**, Introduction to Modular Forms, *TEV*, Vilnius, 2007, 147 p.
7. **R. Kašuba**, What To Do When You Do not Know What To Do? Part II, *Macibu gramata*, Riga, 2007, 166 p.
8. **E. Manstavičius**, Analytic and Probabilistic Combinatorics, *TEV*, Vilnius, 2007, 316 p.
9. **A. Mitašiūnas**, Software process assessment and improvement, *Internet Issue*, Vilnius, 2007, 186 p.
10. **S. Norgėla**, Logics and Artificial Intelligence, *TEV*, Vilnius, 2007, 255 p.
11. **S. Norgėla** and J. Sakalauskaitė, Nonclassical Logics for Informatics, *TEV*, Vilnius, 2007.
12. **S. Norgėla**, Intelligent Systems, *Internet Issue*, Vilnius, 2007, 158 p.
13. **V. Paulauskas** and **A. Račkauskas**, Functional Analysis, Part I: Spaces, *Vaistų žinios*, Vilnius, 2007, 244 p.
14. **V. Paulauskas** and **A. Račkauskas**, Functional Analysis, Part II: Functions and Equations, *Vaistų žinios*, Vilnius, 2007, 200 p.
15. A. Pincevičius, **A. Domarkas**, and V. Pakenienė, Transactions of Applied Mathematics, *Generolo Jono Žemaičio Lietuvos karo akademija*, Vilnius, 2007, 175 p.
16. **G. Skersys**, Information Security, *Internet Issue*, Vilnius, 2007, 180 p.
17. **V. Stakėnas**, Codes and Ciphers. Elements of Information Theory and Cryptography, *TEV*, Vilnius, 2007, 352 p.
18. **A. Svirskas** and G. Zlatkus, Advanced Topics of Computer Networks: SOA, Web Services, *Internet Issue*, Vilnius, 2007, 214 p.
19. **V. Tumasonis**, Testing and Configuration Management of Software Systems, *Internet Issue*, Vilnius, 2007, 197 p.
20. **R. Vaicekauskas**, Parallel and Distributed Calculations, *Internet Issue*, Vilnius, 2007, 206 p.

Other publications (in Lithuanian)

1. **A. Apynis**, Trigonometric problems, In: *For a Young Mathematician 8, Problems and Solutions of Lithuanian School of Young Mathematicians 2005–2007*, Danielius Publishing House, Vilnius, 2007, pp. 78–85, 126–131.
2. **A. Apynis**, J. Šinkūnas, Newton's binomial, In: *For a Young Mathematician 8, Problems and Solutions of Lithuanian School of Young Mathematicians 2005–2007*, Danielius Publishing House, Vilnius, 2007, pp. 45–57, 100–103
3. **M. Bloznelis**, Would the new law reverse the decline of higher education? Internet daily Bernardinai.lt, 2007–11–13.
4. **A. Elijo**, A Guide to Reading Education in the Forty PIRLS 2006 Countries, In: *Lithuania, PIRLS 2006 Encyclopedia, TIMSS & PIRLS Study Centre, Lynch School of Education*, Boston College, 2007, 235–241.
5. **A. Elijo**, Progress in International Reading Literacy Study PIRLS 2006 Report, *National Examination Center*, 2007, 58 p.
6. **H. Jasiūnas**, Professor Eugenijus Manstavičius, *Lietuvos matematikų muziejus*, 2007, 74 p.
7. **R. Kašuba**, In Hooligan's land crashing lights, *Kompiuterija*, 2007, **1**(113), p. 46.
8. **R. Kašuba**, Indian motives, *Kompiuterija*, 2007, **2**(114), p. 46.
9. **R. Kašuba**, What kind of trees prevails in the forest? *Kompiuterija*, 2007, **3**(115), p. 46.
10. **R. Kašuba**, Not only gold rules, *Kompiuterija*, 2007, **5**(117), p. 46.
11. **J. Kubilius**, A few words about Jonas Matulionis, In: *Professor Jonas Matulionis*, Vilnius, 2007, 31–36.
12. **R. Norvaiša** and **A. Račkauskas**, Assessment of research in research and studies institutions, *Mokslo Lietuva*, 2007, **19**(375).
13. **E. Stankus**, Diofantine equations, In: *For a Young Mathematician 8, Problems and Solutions of Lithuanian School of Young Mathematicians 2005–2007*, Danielius Publishing House, Vilnius, 2007, 26–35, 103–106.

Other lectures and reports

1. **M. Bloznelis**, Component evolution in a wireless sensor network, *Sem. Random Graphs, Helsinki Univ., October 18.*
2. **M. Bloznelis**, Some results on linearization and normal approximation of combinatorial statistics, *Stochastics Sem., Helsinki Univ. of Technology, October 29.*
3. **A. Dubickas**, Some problems for the conjugates of Salem and Pisot numbers, *Niigata Univ., Japan, October 23.*
4. **A. Dubickas**, Sumsets of Salem and Pisot numbers, *Niigata Univ., Japan, October 23.*
5. **R. Leipus**, Stationarity tests, *Summer School “umber Theory and Probability Theory,” Druskininkai, September 17–22.*
6. **R. Leipus**, Recent advances in ARCH modeling, *Warsaw Univ., March 28.*
7. **R. Leipus**, Financial time series, Lecture course, *Warsaw Univ., March 21–April 3.*
8. **A. Mačiulis**, Introduction to data mining, *Computing Sem., London Metropolitan Univ., June 20.*
9. **V. Paulauskas**, Growth of variance and self-normalization for spatial autoregression, *Tilburg Univ., Holland, April 11.*
10. **A. Skučaitė**, 6-hour lecture course “Insurance as Risk Management Tool,” *Business School Ostrava, Czech Republic, sponsored by EU staff mobility program Erasmus, December 3–9.*

SCIENTIFIC CONTACTS

Participation in international projects

1. **R. Baronas, S. Dapkūnas, V. Dičiūnas, K. Lapin, A. Mitašiūnas, S. Norgėla, S. Ragaišis, G. Skersys, V. Tumasonis, V. Undžėnas, R. Vaicekauskas.** EC Structural Funds project *Establishment of Master Study Programme in Software Engineering*. 2005–2008.
2. **V. Čyras, K. Lapin.** Development of an Innovative LIDAR Technology for New Generation ATM Paradigms (SKY-Scanner), July 2007 - June 2010. EC Sixth Framework Programme, thematic priority 1.4 Aeronautics and Space, specific targeted research or innovation project. Workpackage 9 Aircraft Collision Probability and Decision Support Model Design and Development.
3. **V. Čyras.** EC Structural Funds Project No. BPD2004-ESF-2.5.0-03-05/027 *Development of doctoral studies in informatics and mathematics (InMaDra)*, 2006–2008. Partners: Kaunas Univ. of Technology and Institute of Mathematics and Informatics. (Project is financed by the structural aid of the European Communities to Lithuania).
4. **A. Dubickas, Y. Bugeaud.** *Gilibert* project with Strasbourg university, Nr. SUT-441. *Algebraic numbers and distribution modulo 1*. 2007–2008.
5. **A. Juozapavičius.** Activity leader. BalticGRID (EC, FPG, Contract No. 026715). 2005–2008.
6. **A. Juozapavičius.** CERN—Lithuania Collaboration Program. 2007.
7. **R. Leipus, A. Račkauskas.** Bilateral Lithuanian-France research program *Gilibert*, project *Random processes and their application in statistics and econometrics*.
8. **M. Manstavičius.** Project *InMaDra*. Financial support by the ESF and Lithuania according to the Single Programming Document of Lithuania priority 2“Human Resource Development” Measure 2.5 Ensuring that sufficient numbers of highly qualified specialists in the R& D sector and energy sectors are trained in order to stem the adverse impact of an ageing workforce in these sectors in particular.
9. **A. Mitašiūnas.** Nominated expert of the National committee of the Information and Communication Technology Programme (FP7-ICT) of the seventh "Research Framework Programme (FP7).
10. **A. Mitašiūnas.** EC Structural Funds project *Establishment of Master Study Programme in Software Engineering (S. Norgėla, G. Skersys, V. Tumasonis, R. Vaicekauskas, V. Dičiūnas)*. 2005–2008.
11. **V. Paulauskas.** Bilateral Lithuanian–France research program: *Gilibert*, project *Stochastic Processes and their Application in Statistics, Econometrics and in Industry*. Nr. LNS-12700-719, 2007-05-17, No. SUT-441. 2007–2008. (Vilnius and Lille Universities).

12. **V. Paulauskas.** Lithuanian State Science and Studies Foundation grant No V-02/2007 to support the research project *Stochastic Processes and their Application in Statistics, Econometrics and in Industry*. 2007–2008.
13. **A. Račkauskas.** EC Structural Funds Project No. BPD2004–ESF-2.5.0-03-05/0007 *Establishment of Master Study Programmes of Financial and Actuarial Mathematics and Econometrics*, 2006–2008.
14. **A. Račkauskas.** Service agreement between Dresdener Kleinwort Securities Limited and Vilnius University. Registration No. 551334, England, London EC2V 7PG, Gresham Street 30, 2007.
15. **A. Svirskas.** An external observer of W3C Web Services Choreography Working Group (<http://www.w3.org/2002/ws/chor/>) and liaison for the EU FP6 TrustCoM (<http://www.eu-trustcom.com/>) project.
16. **A. Svirskas.** Collaboration with W3C UK and Ireland Regional Office (<http://www.w3c.rl.ac.uk/>) and organizing visits of W3C UK key staff to the events held in Lithuania.
17. **A. Svirskas.** Consultant for the Scientific Coordination team (Kingston University, London) in an EU FP6 STREP project *Collaborative Process Automation Support using Service Level Agreements and Intelligent dynamic Agents in SME clusters* (codename PANDA). 2005–2008.
18. **E. Stankus.** Project *Science on Stage*. Member of National Steering Committee.
<http://www.pprc.lt/ScienceOnStage/en/nk.asp>
19. **E. Stankus.** The international commission on mathematical instruction (ICMI) representative.
<http://www.mathunion.org/ICMI>
20. **V. Tumasonis.** Taking part in Unicode Consortium for developing the Unicode Standard.

Visits by staff

1. **T. Anbinderis**. Manchester, UK. Participation in EGEE User Forum. May 6–12.
2. **D. Celov**. Nantes University, France. November 18–25.
3. **A. Čivilis**. Budapest, Hungary. Participation in courses “EU Funding Summer Academy.” August 5–11.
4. **M. Bloznelis**. Bielefeld University, Germania. January 10–February 8.
5. **M. Bloznelis**. Helsinki, Finland. Research visit to Helsinki University. October 13, 2007–January 31, 2008.
6. **L. Būtėnas**. UK. Participation in computational linguistics seminar, September 23–30.
7. **L. Būtėnas**. Stockholm, Sweden. Participation in BalticGrid conference “All Hands Meeting.” December 12–14.
8. **P. Drungilas**. Strasbourg University, France. Research visit. May 20–26.
9. **A. Dubickas**. Hanoi & Halong Bay, Vietnam. Lithuanian team leader at IMO 2007. July.
10. **A. Dubickas**. Harish-Chandra Research Institute, Allahabad, India. Research visit.
11. **A. Dubickas**. Strasbourg University, France. Research visit. June.
12. **A. Dubickas**. Kyoto and Niigata Universities. Research visit. October.
13. **R. Eidukevičius**. Padova University. A course “Statistics with Computer” was given for students of the Faculty of Natural Sciences.
14. **A. Juozapavičius**. Bolzano University, Italy. Participation in research seminars and research projects. January 6–11.
15. **A. Juozapavičius**. Geneva, Switzerland. Participation in CERN CMS seminars and research week. January 21–27.
16. **A. Juozapavičius**. München, Germany. Participation in European Grid Initiative seminars. February 26–28.
17. **A. Juozapavičius**. Geneva, Switzerland. Participation in CERN CMS seminars and research week. March 1–3.
18. **A. Juozapavičius**. Vienna University, Austria. Participation in research seminars at Vienna University. March 28–30.
19. **A. Juozapavičius**. Heidelberg, Germany. Participation in grid infrastructure seminar. April 18–21.
20. **A. Juozapavičius**. Manchester, UK. Participation in EGEE User Forum, a talk. May 6–12.
21. **A. Juozapavičius**. Tallinn, Estonia. Participation in BalticGrid seminar, a talk. May 15–17.
22. **A. Juozapavičius**. Budapest, Hungary. Participation in EGEE’07 conference, a talk. September 30–October 6.

23. **A. Juozapavičius.** Copenhagen, Denmark. Participation in NordesGrid 2007 conference, a talk. September 24–26.
24. **A. Juozapavičius.** Sophia-Antipolis, France. Participation in intern. conference “Grid Concertation.” December 4–7.
25. **A. Juozapavičius.** Stockholm, Sweden. Participation in BalticGrid conference “All Hands Meeting.” December 12–14.
26. **K. Karčiauskas.** Darmstadt, Germany. Talk in Workshop on Geometric modeling. March 21–24.
27. **K. Karčiauskas.** Sheffield, UK. Talk in IMA Conf. “Mathematics of Surfaces.” September 3–8.
28. **M. Kazakevičiūtė.** Oxford University, UK. Summer School. September 16–22. Budapest, Hungary. Participation in EGEE’07 conference. October 1–5.
29. **R. Krasauskas.** Toulouse University, France. A seminar talk. April 13–23.
30. **R. Krasauskas.** Visit: IMA, Minesota University, USA. May 19–June 22.
31. **R. Krasauskas.** Strobl, Austria. COMPASS-2 Workshop. Talk “Rational parametrizations of 3D solids.” September 9–14.
32. **R. Krasauskas.** Oslo, Norway. Talk in the CMA Seminar. November 5–7.
33. **E. Kutka.** Aachen, Germany. Participation in the seminar “Sun HPC 2007.” March 10–15.
34. **E. Kutka.** Tallinn, Estonia. Participation in BalticGrid seminar. May 15–17.
35. **E. Kutka.** Dublin, Ireland. SIRENE project. October 28–31.
36. **E. Kutka.** Stockholm, Sweden, Participation in BalticGrid Conf. “All Hands Meeting.” December 12–14.
37. **V. Kvedaras.** Aarhus University, Denmark. December 3–10.
38. **R. Lapinskas.** London University, Great Britain. June 18–22.
39. **R. Leipus.** Warsaw University, Poland. Socrates/Erasmus preparatory visit. March 21–April 3.
40. **R. Leipus.** Nantes University, France. November 18–25.
41. **K. Liubinskas.** Copenhagen University, Denmark. November 12–16.
42. **A. Mačiulis.** London Metropolitan University, Great Britain. June 17–23.
43. **M. Manstavičius.** Sandbjerg, Denmark. Summer School *Levy processes: Theory and Applications*. August 8–12.
44. **A. Mitašiūnas.** Berlin University of Technology, Germany. Participation in the 2007 European Computer Science Summit. October 8–9.
45. **A. Mitašiūnas.** Centre Albert Borschette, Brussels. Participation in FP7 ICT Committee formal meetings. June 14–July 25, October 24.
46. **T. Meškauskas.** Geneva, Switzerland. Participation in CERN seminar. January 21–27.

47. **V. Paulauskas**. Lille University, France. Within Gilibert project. March 5–16.
48. **V. Paulauskas**. Tilburg University, Holland. April 10–12.
49. **V. Paulauskas**. London University, Great Britain. June 18–22.
50. **K. Pileckas**. Zurich University, Switzerland. A seminar talk. January 15–20.
51. **K. Pileckas**. University of Ferrara, Italy. Lectures by the Erasmus/Socrates program. January 30–February 6.
52. **K. Pileckas**. University Naples II, Italy. Research work. February 6–March 1.
53. **A. Račkauskas**. Lille University, France. November 26–30.
54. **A. Račkauskas**. University of Economics in Katowice, Poland. Invited professor. April 22–25.
55. **V. Rapševičius**. Brussels, Belgium. Participation in research SIRENE project seminar.
56. **G. Skersys**. Paris-Rocquencourt and Limoges Universities, France. INRIA (The French National Institute for Research in Computer Science and Control), Information Security. June 13–20.
57. **A. Skučaitė**. Cologne, Germany. The 34th Seminar of the European Group of Risk and Insurance Economists (EGRIE). September 17–19.
58. **A. Skučaitė**. Sofia, Bulgaria. Seminar “Health Financing and Health Insurance.” October 31–November 4.
59. **A. Skučaitė**. Copenhagen University, Denmark. November 12–16.
60. **A. Skučaitė**. Business School Ostrava, Czech Republic. Lectures “Insurance as Risk Management Tool” (6 hours) sponsored by EU staff mobility program Erasmus. December 3–9.
61. **G. Stepanauskas**. Chania, Crete, Greece. XII International Conference on Applied Stochastic Models and Data Analysis (ASMDA 2007). May 26–June 4.
62. **G. Stepanauskas**. Versailles, France, IT exhibition. September 17–23.
63. **V. Tumasonis**. Bergen University, Norway. Report “Palemonas, a Computer Font for Lithuanian Philology: Principles and Implementation”. April 25–May 1.
64. **V. Tumasonis**. St. Petersburg University of Information Technologies, Mechanics and Optics, St. Petersburg, ACM International Collegiate Programming Contest. November 26–December 2.
65. **V. Zacharovas**. Academia Sinica, Taipei, Taiwan. January 1–August 30.
66. **S. Zubė**. Minesota University, USA. IMA Workshop “Nonlinear Computational Geometry”. Poster “An implicit equation of a canal surface”. May 28–June 4.
67. **D. Zuokas**. Lille University, France. Within Gilibert project. March 5–12.

Foreign visitors

68. Prof. L. Aizenberg, Bar-Ilan University, Israel. August.
69. Prof. Y. Bugeaud, Strasbourg University, France, October 30–November 10.
70. Dr. Michael Claudius, International Coordinator of Roskilde Business College, Denmark. Preparatory visit on establishment of double degree study programme within the Erasmus – LLP programmes for undergraduate students in informatics.
71. Professors Wojciech Gamrot and Karol Adamecki, University of Economics in Katowice, Poland, November 18–24.
72. Prof. Jerzy Jaworski, Adam Mickiewicz University, Poznań, Poland, May 1–7.
73. Prof. Algirdas Pakštas, Dept. Computing, Communications Technology and Mathematics of London Metropolitan University, 2 weekly cycles of consultations for ESF project “Establishment of Master Study Programme in Software Engineering.” August 6–9, 21–24, and October 22–28.
74. Prof. Anne Philippe, Nantes University, France, June 18–July 2.
75. Prof. A. Raigorodskii, Moscow University, Russia, July.
76. Prof. J. Steuding, Warzburg University, Germany, January.
77. Prof. Charles Suquet, Lille University, France, June 18–July 2.
78. Prof. Marie-Claude Viano, Lille University, France, June 25–July 2.
79. Professors Janusz Wywiał and Karol Adamecki University of Economics in Katowice, Poland, September 7–10.
80. Dr. Dmitrii Zaporozhets, Steklov Institute of Mathematics, St. Petersburg, May 21–25.

GRANTS, AWARDS

1. **M. Bloznelis**. Lithuanian State Science and Studies Foundation grant A-765 to support the research project *Normal Approximation of Simple Random Samples Drawn without Replacement*.
2. **A. Dubickas**, INTAS grant No.03-51-5070. *Analytical and combinatorial methods in number theory*. 2005–2007.
3. **A. Dubickas**, Y. Bugeaud. *Gilibert* project with Strasbourg university, Nr. SUT-441. *Algebraic numbers and distribution modulo 1*. 2007–2008.
4. **A. Dubickas**, **R. Garunkštis**, **A. Kačėnas**, **A. Laurinčikas**, INTAS grant 03-51-5070 *Analytical and Combinatorial Methods in Number Theory*. 2005–2007.
5. **A. Juozapavičius**. GridTechno: Research and Implementation of Grid Applications Information Mobile Solutions. Lithuanian State Science and Studies Foundation grant, 2007-2009.
6. **A. Juozapavičius**. LitGRID: Parallel and Distributed Computation and e-Services Network. Financed by Ministry of Education and Science, investment program. 2007-2012.
7. **V. Mackevičius**. The Third Prize for the textbook *Stochastic Analysis* in the Contest of textbooks for Lithuanian universities.
8. **M. Manstavičius**. Vilnius University Science Support Fund grant *Probabilistic models in risk management*.
9. **A. Mitašiūnas** is nominated expert of the National committee of the Information and Communication Technology Programme (FP7-ICT) of VII Research Framework Programme (FP7).
10. **A. Plikusas**. Lithuanian State Science and Studies Foundation grant T-24/07 to support the research project *Estimation of the finite population parameters in the presence of auxiliary information*. Member **M. Bloznelis**.
11. **A. Svirkas** is serving as a consultant for the Scientific Coordination team (Kingston University London) in an EU FP6 STREP project “Collaborative Process Automation Support Using Service Level Agreements and Intelligent Dynamic Agents in SME Clusters” (PANDA). 2005–2008.
12. **V. Tumasonis**. Taking part in Unicode Consortium for developing of the Unicode Standard.

APPENDIX

Publications appeared in 2002–2006

Abbreviations:

- LMR* *Lietuvos Matematikos Rinkinys*
- LMJ* *Lithuanian Mathematical Journal*
- NAMC* *Nonlinear Analysis: Modelling and Control*, ISSN 1392–5133 (Vilnius)
- ProcLMS–2000* Special issue of *Lietuvos Matematikos Rinkinys*, 2000, **40**: *Proceedings of XLI Conference of Lithuanian Mathematical Society, Šiauliai, June 22–23, 2000.*
- FDS–2000* *Proceedings of III International Conference “Finite Difference Schemes: Theory and Applications,” September 1–4, 2000, Palanga, Lithuania, Eds. R. Čiegis, A. Samarskii, and M. Sapagovas, IMI, Vilnius, 2000.*
- ProcLMS–2001* Special issue of *Lietuvos Matematikos Rinkinys*, 2001, **41**: *Proceedings of XLII Conference of Lithuanian Mathematical Society, Klaipėda University, June 22–23, 2001.*
- 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.*
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- ProcLMS–2003* Special issue of *Lietuvos Matematikos Rinkinys*, 2003, **43**: *Proceedings of XLIV Conference of Lithuanian Mathematical Society, June 19–20, Vilnius Pedagogical University, 2003.*
- ProcLMS–2004* Special issue of *Lietuvos Matematikos Rinkinys*, 2004, **44**: *Proceedings of XLV Conference of Lithuanian Mathematical Society, June 17–18, 2004, Lithuanian University of Agriculture, Kaunas.*
- TMRP–2005* *Proceedings VI International Conference Teaching Mathematics: Retrospective and Perspectives, May 13–14, 2005, Vilnius University, Lithuania.*
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- TMRP–2005* *VI International Conference Teaching Mathematics: Retrospective and Perspectives, May 13–14, 2005, Vilnius University, Lithuania.*
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