

VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS FAKULTETAS



VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS AND INFORMATICS

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FACULTY OF MATHEMATICS AND INFORMATICS

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

Dean Prof. Gediminas Stepanauskas
Phone: +370 5 219 3050 Fax: +370 5 215 1585
gediminas.stepanauskas@mif.vu.lt

DEPARTMENT OF COMPUTER SCIENCE

<http://mif.vu.lt/lt2/struktura/inf>

Head Prof. Rimantas Vaicekuskas
Phone: +370 5 219 3073
rimantas.vaicekuskas@mif.vu.lt

The department supervises the education in informatics for the students in bachelor, master, and doctor programs. Research areas: neural networks, software process, semantics of programs, artificial intelligence, retrieval of logical proofs, error-correcting codes, service oriented frameworks and cloud computing, national language support, numerical modelling and visualization.

Julius Andrikonis. Modal logics.	julius.andrikonis@mif.vu.lt
Darius Baronas. Computer modeling of biosensors.	darius.baronas@mif.vu.lt
Adomas Birštūnas. Multiagent modal logics.	adomas.birstunas@mif.vu.lt
Valdas Dičiūnas. Pattern recognition, neural networks, algorithm complexity.	valdas.diciunas@mif.vu.lt
Arūnas Janeliūnas. Neural net based classification algorithms, object-oriented database systems.	arunas.janeliunas@mif.vu.lt
Vytautas Jančauskas. Optimization, swarm intelligence.	vytautas.jancauskas@mif.vu.lt
Linus Litvinas. Computer simulation of biosensors, artificial neural networks.	linas.litvinas@mif.vu.lt
Ieva Mitašiūnaitė-Besson. Data mining, bioinformatics.	ieva.mitasiunaite@bti.vu.lt
Antanas Mitašiūnas. Process capability assessment and improvement, qualified electronic signature applications.	antanas.mitasiunas@mif.vu.lt
Stanislovas Leonas Norgėla. Automated theorem proving.	stasys.norgela@mif.vu.lt
Irmantas Radavičius. Graph theory, data structures and algorithms, algorithm analysis.	irmantas.radavicius@mif.vu.lt
Aistis Raudys. Machine learning, pattern recognition, trading systems, financial data analysis, time series.	aistis.raudys@mif.vu.lt
Šarūnas Raudys. Statistical and neural classifiers, machine learning, multiagent systems, data mining.	sarunas.raudys@mif.vu.lt
Liutauras Ričkus. Computer modeling of biosensors.	liutauras.rickus@mif.vu.lt
Gintaras Skersys. Error-correcting codes.	gintaras.skersys@mif.vu.lt
Arūnas Stočkus. Electronic signatures, mobile computing, web technologies, web services, data transfer technologies.	arunas.stockus@mif.vu.lt

Vladas Tumasonis. Comparison of programming languages, computer algebra, IT standards.
vladas.tumasonis@mif.vu.lt

Rimantas Vaicekaskas. Computational color science, parallel computing.
rimantas.vaicekaskas@mif.vu.lt

Vytautas Valaitis. Artificial neural networks, multi-agent evolving systems.
vytautas.valaitis@mif.vu.lt

Jonas Žagūnas. Structured conversion of documents.
jonas.zagunas@mif.vu.lt

Antanas Žilinskas. Optimization, optimal design, visualization of multidimensional data.
antanas.zilinskas@mii.vu.lt

DOCTORAL STUDENTS

Karolis Koncevičius. Analysis of high-dimensional biomedical data, pattern recognition methods.
karolis.koncevicius@mii.vu.lt

Dalius Krunglevičius. Applications of artificial neural networks, including machine learning, pattern recognition and neuroscience.
dalius.krunglevicius@gmail.com

Andrius Paukštė. Modeling financial risks, multicore and cluster computing, GPU computing, Time series data mining.
andrius.paukste@mif.vu.lt

DEPARTMENT OF COMPUTER SCIENCE II

<http://mif.vu.lt/lt2/struktura/komp>

Head Prof. Feliksas Ivanauskas
Phone: +370 5 219 3091
feliksas.ivanauskas@mif.vu.lt

The research areas at the department include methods and applications of nonlinear and computational modelling, 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.

Margarita Beniušė. Informatics, Internet technologies, computer aided geometry design.
margarita.kazakeviciute@mif.vu.lt

Agnė Brilingaitė. Geo-context in location-based services, spatio-temporal databases, geographic information and intelligent transportation systems.
agne.brilingaite@mif.vu.lt

Linas Bukauskas. Database support for visual data mining, indexing of visible objects, information retrieval spatio-temporal databases, ER modelling.
linas.bukauskas@mif.vu.lt

Linas Būtėnas. Context extraction from semi-structural and textual information.
linas.butenas@mif.vu.lt

Jolita Ignatavičiūtė. Stochastic methods in image processing.
jolita.ignataviciute@mif.vu.lt

Feliksas Ivanauskas. Numerical analysis of nonlinear diffusion equations, modelling physical problems.
feliksas.ivanauskas@mif.vu.lt

Algimantas Juozapavičius. Algorithms of computer vision and computer graphics, applications in medical imaging and Internet-based systems.
algimantas.juozapavicius@mif.vu.lt

Simonas Kareiva. Stereoscopy and stereometry, surface reconstruction, big data analytics, digital wireless communications. `simonas.kareiva@ittc.vu.lt`

Kęstutis Karčiauskas. Computer-aided geometric design, multisided rational surface patches. `kestutis.karciauskas@mif.vu.lt`

Pijus Kasparaitis. Speech synthesis. `pijus.kasparaitis@mif.vu.lt`

Rimvydas Krasauskas. Computer-aided geometric design, applications of algebraic geometry and topology. `rimvydas.krasauskas@mif.vu.lt`

Eduardas Kutka. Computer networks, virtualization technologies, distributed, GRID and cloud computing, network calculus. `eduardas.kutka@mif.vu.lt`

Tomas Gžegožas Lipnevičius. Computer vision and medical imaging. `tomas.lipnevicius@mif.vu.lt`

Ramūnas Markauskas. Computer vision in medical imaging. `ramunas.markauskas@mif.vu.lt`

Tadas Meškauskas. Numerical methods for partial differential models, mathematical and numerical modeling of electrochemical phenomena. `tadas.meskauskas@mif.vu.lt`

Kazimieras Mickus. Digital analysis of medical imaging. `kazimieras.mickus@mif.vu.lt`

Kazimieras Navickis. Intrinsic normalizations of distributions of flags on Grassmannians of affine spaces. `kazimieras.navickis@mif.vu.lt`

Aleksas Pikturna. Computer modelling of Universities budget. `aleksas.pikturna@cr.vu.lt`

Mantas Puida. Computer modelling of structural innovations in biosensors. `mantas.puida@mif.vu.lt`

Valdas Rapševičius. Computational high energy physics, ontology and rule-based expert systems, machine learning, medical imaging. `valdas.rapsevicius@mif.vu.lt`

Svajūnas Sajavičius. Numerical solution of PDEs with nonlocal conditions, finite-difference schemes, meshless methods. `svajunas.sajavicius@mif.vu.lt`

Jelena Tamulienė. Ab initio geometric and electronic structure computations on Grid or Cloud. `jelena.tamuliene@tfai.vu.lt`

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

Alminas Čivilis. Managing moving objects in location-based services, spatial data mining, big data and geographic information systems. `alminas.civilis@mif.vu.lt`

DOCTORAL STUDENTS

Justinas Vygintas Daugmaudis. Computer modelling of physical–medical problems. `justinas.daugmaudis@mif.vu.lt`

DEPARTAMENT OF DIDACTICS OF MATHEMATICS AND INFORMATICS

<http://mif.vu.lt/lt2/struktura/mim>

Head Prof. Eugenijus Stankus
Phone: +370 5 219 3086
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.

Antanas Apynis. Game theory, social decisions, didactics of mathematics.

antanas.apynis@mif.vu.lt

Valentina Dagienė. Computer science, information technology, didactics of informatics, contests in informatics and information technology.

valentina.dagiene@mii.vu.lt

Vladimiras Dolgopolovas. Future education and training in computing.

vladimiras.dolgopolovas@mii.vu.lt

Aistė Elijio. Statistical educational surveys and their analysis, sample design issues, mathematically gifted students.

aiste.elijio@mif.vu.lt

Edmundas Gaigalas. Quadratic forms, problems of mathematical education.

edmundas.gaigalas@mif.vu.lt

Tatjana Jevsikova. E-learning, ICT in education, software localization.

tatjana.jevsikova@mii.vu.lt

Romualdas Kašuba. Development of mathematical skill, modern elementary mathematics, mathematical contests, mathematics and arts.

romualdas.kasuba@mif.vu.lt

Ričardas Juozas Kudžma. Mathematical analysis, actuarial mathematics, didactics of mathematics, semiotics.

ricardas.kudzma@mif.vu.lt

Edmundas Mazėtis. Geometry, didactics of mathematics.

edmundas.mazetis@mif.vu.lt

Aivaras Novikas. Number theory, mathematical contests.

aivaras.novikas@mif.vu.lt

Šarūnas Repšys. Dynamic models of physiological structure of population.

sarunas.repsys1@mif.vu.lt

Eugenijus Stankus. Analytic number theory, probabilistic number theory, didactics of mathematics.

eugenijus.stankus@mif.vu.lt

DEPARTMENT OF DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS

<http://mif.vu.lt/lt2/struktura/dlsm>

Head Prof. Konstantinas Pileckas
Phone: +370 5 219 3084
konstantinas.pileckas@mif.vu.lt

Professors of the department give courses on differential equations (ODEs and PDEs), 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.

- Algirdas Ambrazevičius.** Solvability of partial differential equations of parabolic type.
algirdas.ambrazevicius@mif.vu.lt
- Vaclovas Daukšas.** Optimization methods.
vaclovas.dauksas@mif.vu.lt
- Aleksas Domarkas.** Solvability of nonlinear Schrödinger-type equations.
aleksas.domarkas@mif.vu.lt
- Romas Karaliūnas.** Mathematical modelling of problems for deformable body mechanics.
romas.karaliunas@mif.vu.lt
- Pranas Katauskis.** Numerical analysis of nonlinear partial differential equations of parabolic type.
pranas.katauskis@mif.vu.lt
- Kristina Kaulakytė.** Mathematical models of viscous fluids.
kristina.kaulakyte@mif.vu.lt
- Algis Kavaliauskas.** Asymptotic analysis of dynamic systems.
algis.kavaliauskas@mif.vu.lt
- Neringa Klovienė.** Mathematical models of non-Newtonian fluids.
- Arvydas Kregždė.** Mathematical modelling of sovereign risk.
arvydas.kregzde@mif.vu.lt
- Mečislavas Meilūnas.** Numerical analysis of parabolic problems.
mecislavas.meilunas@mif.vu.lt
- Konstantinas Pileckas.** Elliptic differential equations, Navier–Stokes equations, asymptotical methods.
konstantinas.pileckas@mif.vu.lt
- Gintaras Puriuškis.** Schrödinger-type differential equations.
gintaras.puriuskis@mif.vu.lt
- Stasys Rutkauskas.** Elliptic equations, boundary value problems.
stasys.rutkauskas@mii.vu.lt
- Vladas Skakauskas.** Models of biopopulations and surface reactions.
vladas.skakauskas@mif.vu.lt
- Artūras Štikonas.** Nonlocal problems.
arturas.stikonas@mif.vu.lt
- Olga Štikonienė.** Numerical methods for nonlinear PDEs and problems with nonlocal boundary conditions.
olga.stikoniene@mif.vu.lt

DOCTORAL STUDENTS

- Alicija Eismontaitė.** Non-stationary methods of evolutionary equations.
alicija.eismontaite@mif.vu.lt
- Jurij Novickij.** Finite difference schemes for hyperbolic equations with nonlocal conditions.
jurij.novickij@gmail.com
- Mindaugas Skujus.** Asymptotic conditions at infinity for non-stationary Stokes and Navier–Stokes problems.
mindaugas.skujus@mif.vu.lt

DEPARTMENT OF ECONOMETRIC ANALYSIS

<http://mif.vu.lt/lt2/struktura/eka>

Head Prof. Alfredas Račkauskas

Phone: +370 5 219 3076

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.

Dmitrij Celov. Long-memory time series models in macroeconomics.

dmitrij.celov@mif.vu.lt

Virmantas Kvedaras. Macroeconometrics.

virmantas.kvedaras@mif.vu.lt

Remigijus Lapinskas. Regression methods in ecology and medicine.

remigijus.lapinskas@mif.vu.lt

Remigijus Leipus. Financial mathematics and econometrics, time series analysis, insurance mathematics.

remigijus.leipus@mif.vu.lt

Aušra Maldeikienė. Modern economic thought.

ausra.maldeikiene@mif.vu.lt

Raimondas Malukas. Financial econometrics.

raimondas.malukas@mii.vu.lt

Vytautas Maniušis. Empirical characteristic functions.

vytautas.maniusis@mif.vu.lt

Jurgita Markevičiūtė. Functional central limit theorems for nearly nonstationary processes.

jurgita.markeviciute@mif.vu.lt

Gediminas Murauskas. Information systems, linear and generalized linear mixed models and their applications.

gediminas.murauskas@mif.vu.lt

Rimas Norvaiša. Probability theory, financial analysis, financial mathematics, mathematical economics.

rimas.norvaisa@mii.vu.lt

Milda Pranckevičiūtė. Financial econometrics.

milda.prankeviciute@mif.vu.lt

Marijus Radavičius. Nonparametrical and adaptive estimation, econometrics, classification, image analysis.

marijus.radavicius@mii.vu.lt

Irma Rastėnė. Testing epidemic change in autoregressive processes.

irma.rastene@mif.vu.lt

Alfredas Račkauskas. Probability limit theorems in functional spaces, applications in statistics and econometrics.

alfredas.rackauskas@mif.vu.lt

Agnė Reklaitė. Factorial and structural models in econometrics.

agne.reklaite@mif.vu.lt

Vaidotas Zemlys. Functional limit theorems for summation processes.

vaidotas.zemlys@mif.vu.lt

Vydas Čekanavičius. Signed compound Poisson approximations, Kolmogorov's problem.

vydas.cekanavicius@mif.vu.lt

DOCTORAL STUDENTS

Vaidotas Characiejus. Random processes with time-varying long memory parameter.

vaidotas.characiejus@gmail.com

Lina Dindienė. Extreme value theory, insurance mathematics.

lina-dindiene@yahoo.com

Jonas Jarutis. Functional data analysis in e-commerce.

jonas.jarutis@mif.vu.lt

Laurynas Naruševičius. Macroeconometric modelling.

laurynas.narusevicius@mif.vu.lt

Jūratė Šliogerė. Approximation of Markov dependent sums of discrete random variables.

kamarauskaite.j@gmail.com

Mantas Tartėnas. Default prediction models.

mantas.tartenas@gmail.com

DEPARTMENT OF MATHEMATICAL ANALYSIS

<http://mif.vu.lt/lt2/struktura/mak>

Head Prof. Vygantas Paulauskas

Phone: +370 5 219 3083

vygantas.paulauskas@mif.vu.lt

Traditionally, the department gives courses in mathematical analysis (calculus) and related subjects. In recent years, the department, as responsible for bachelor and master programs in actuarial and financial mathematics, became more oriented toward applications and is offering main courses in actuarial and financial mathematics. The research areas of the department include heavy tailed distributions, time series, econometric and actuarial models, stochastic analysis.

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

Almantas Juozulynas. Very sparse random matrices and their spectrum.

almantas.juozulynas@mif.vu.lt

Antanas Lenkšas. Numerical solution of SDEs.

antanas.lenksas@mif.vu.lt

Kęstutis Liubinskas. Convergence rates in limit theorems of probability theory.

kestutis.liubinskas@mif.vu.lt

Vigirdas Mackevičius. Stochastic analysis, stochastic numerics.

vigirdas.mackevicius@mif.vu.lt

Martynas Manstavičius. Levy processes, path properties of random processes.

martynas.manstavicius@mif.vu.lt

Edgaras Mielkaitis. Limit theorems and convergence rates for random linear processes and fields.

edgaras.mielkaitis@mif.vu.lt

Vygantas Paulauskas. Approximations of multidimensional stable laws, autoregressive models, random fields, tail index estimation, operator theory.

vygantas.paulauskas@mif.vu.lt

Aleksandras Ernestas Plikusas. Sampling in official statistics, regression ratio estimators.

aleksandras.plikusas@mii.vu.lt

Donata Puplinskaitė. Aggregation of infinite-variance random processes.

donata.puplinskaite@mif.vu.lt

Aldona Skučaitė. Actuarial mathematics, stochastic modeling of insurance.

aldona.skucaite@mif.vu.lt

Jonas Šiaulys. Actuarial mathematics, risk processes, probabilistic number theory.

jonas.siaulys@mif.vu.lt

DOCTORAL STUDENTS

Emilija Bernackaitė. Actuarial mathematics.

emilija.bernackaite@ergo.lt

Agneška Korvel. Actuarial mathematics.

agneska.korvel@gmail.com

Olga Navickienė. Actuarial mathematics.

sajanole@gmail.com

DEPARTMENT OF MATHEMATICAL COMPUTER SCIENCE

<http://mif.vu.lt/lt2/struktura/matinf>

Head Prof. Gediminas Stepanauskas

Phone: +370 5 219 3050

gediminas.stepanauskas@mif.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.

Giedrius Alkauskas. Analytic number theory, structural constants.

giedrius.alkauskas@mif.vu.lt

Gintautas Bareikis. Distributions of the arithmetical functions.

gintautas.bareikis@mif.vu.lt

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

mindaugas.bloznelis@mif.vu.lt

Saulius Gražulis. Crystallography databases.

saulius.grazulis@bti.vu.lt

Rimantas Grigutis. Structure of homogeneous finite-rank Abelian groups.

rimantas.grigutis@mif.vu.lt

Irus Grinis. Polyvalent interactions in biological systems.

irus.grinis@mif.vu.lt

Valentas Kurauskas. Random graphs and algorithms.

valentas.kurauskas@mif.vu.lt

Algirdas Mačiulis. Mean values and limit theorems for arithmetic functions.

algirdas.maciulis@mif.vu.lt

Vilius Stakėnas. Probabilistic number theory, functions of Farey fractions.

vilius.stakenas@mif.vu.lt

Gediminas Stepanauskas. Mean values and limit theorems for arithmetic functions.

gediminas.stepanauskas@mif.vu.lt

Vytas Zacharovas. Probabilistic combinatorics, analysis of algorithms.

vytas.zacharovas@mif.vu.lt

DOCTORAL STUDENTS

Mindaugas Kepalas. Random graphs and algorithms.

mindaugas.kepalas@gmail.com

Irmantas Radavičius. Graph theory, data structures and algorithms, algorithm analysis.

irmantas.radavicius@mif.vu.lt

Laura Žvinytė. Limit distributions of sums of additive functions.

l.zvinyte@eif.viko.lt

DEPARTMENT OF MATHEMATICAL STATISTICS

<http://mif.vu.lt/lt2/struktura/msk>

Head Prof. Vytautas Kazakevičius

Phone: +370 5 219 3065

vytautas.kazakevicius@mif.vu.lt

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

Vilijandas Bagdonavičius. Reliability theory, mathematical statistics, survival analysis.

vilijandas.bagdonavicius@mif.vu.lt

Rimantas Eidukevičius. Mathematical modelling, experimental planning and statistical analysis in oncology.

rimantas.eidukevicius@mif.vu.lt

Vytautas Kazakevičius. Mathematical statistics, nonlinear stochastic dynamic systems.

vytautas.kazakevicius@mif.vu.lt

Rūta Levulienė. Mathematical statistics, reliability, survival analysis.

ruta.levulienne@mif.vu.lt

Viktor Skorniakov. Mathematical statistics, time series.

viktor.skorniakov@mif.vu.lt

Pranas Vaitkus. Large-deviation probabilities, neural networks, nonlinear time series.

pranas.vaitkus@mif.vu.lt

Marijus Vaičiulis. Statistical analysis of stochastic processes.

marijus.vaiciulis@mii.vu.lt

DOCTORAL STUDENTS

Simona Staskevičiūtė.

simona.staskeviciute@gmail.com

DEPARTAMENT OF PROBABILITY THEORY AND NUMBER THEORY

<http://mif.vu.lt/en2/ttsk>

Head Prof. Antanas Laurinčikas
Phone: +370 5 219 3070
antanas.laurincikas@mif.vu.lt

Professors of the department give courses in algebra, number theory, probability theory and discrete mathematics. Their main scientific interests are related to the algebraic, analytic, and probabilistic number theory 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.

Paulius Drungilas. Algebraic numbers, polynomials. paulius.drungilas@mif.vu.lt
Artūras Dubickas. Algebraic numbers, distribution modulo 1.

arturas.dubickas@mif.vu.lt

Ramūnas Garunkštis. Analytic number theory, zeta-functions.

ramunas.garunkstis@mif.vu.lt

Andrius Grigutis. Distribution of zeros of zeta-functions.

andrius.grigutis@mif.vu.lt

Jonas Jankauskas. Algebraic numbers, polynomials.

jonas.jankauskas@mif.vu.lt

Henrikas Jasiūnas. History of mathematics.

henrikas.jasiunas@mif.vu.lt

Algirdas Javtokas. Non-classical zeta-functions.

algirdas.javtokas@mif.vu.lt

Justas Kalpokas. Analytic number theory.

justas.kalpokas@mif.vu.lt

Laima Kaziulytė. Analytic number theory.

Audrius Kačėnas. Value distribution of the Riemann zeta-function.

audrius.kacenas@mif.vu.lt

Antanas Laurinčikas. Analytic and probabilistic number theory, value distribution of zeta-functions.

antanas.laurincikas@mif.vu.lt

Eugenijus Manstavičius. Analytic and probabilistic combinatorics, probabilistic number theory.

eugenijus.manstavicius@mif.vu.lt

Albertas Zinevičius. Distribution of lattice points, hyperelliptic curves.

albertas.zinevicius@mif.vu.lt

Paulius Šarka. Number theory, additive combinatorics.

paulius.sarka@mif.vu.lt

Jonas Šiurys. Algebraic numbers, polynomials.

jonas.siurys@mif.vu.lt

DOCTORAL STUDENTS

Sondra Černigova. The periodic zeta-function.

sondra.cernigova@gmail.com

Jovita Atstapienė. Universality of composite functions.

jovita.ras@gmail.com

Kęstutis Janulis. Universality of zeta functions.

kestutis.janulis@mif.vu.lt

Erikas Karikovas. Investigation of properties of zeta-functions.

erikas.karikovas@mif.stud.vu.lt

Laimonas Meška. Modification of universality theorems.

laimoniuxx@gmail.com

Robertas Petuchovas. Analytic theory of permutations.

robertas.petuchovas@mif.vu.lt

Vytautas Stepanauskas. Additive functions on permutations.

vytautas.stepanauskas@mif.vu.lt

Gražvydas Šemetulskis. Algebraic and combinatorial number theory.

grazvydas.semetulskis@mif.vu.lt

Raivydas Šimėnas. Analytic number theory.

raivydas.simenas@gmail.com

Rokas Tamošiūnas. Analytic number theory.

rokas.tamosiunas@mif.vu.lt

DEPARTMENT OF SOFTWARE ENGINEERING

<http://mif.vu.lt/lt2/struktura/ps>

Head Prof. Romas Baronas

Phone: +370 5 219 3064

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.

Andrius Adamonis. Support and maintenance process modelling.

andrius.adamonis@mif.vu.lt

Vaidas Adomaskas.

vaidas.adomaskas@mif.vu.lt

Vytautas Ašeris. Computer simulation of nonlinear diffusion and reaction processes.

vytautas.aseris@mif.vu.lt

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

romas.baronas@mif.vu.lt

Sigitas Dapkūnas. Information system design, evaluation of software products, service oriented architecture.

sigitas.dapkunas@mif.vu.lt

Viktoras Golubevas. Programming languages.

viktoras.golubevas@mif.vu.lt

Vaidas Jusevičius. Electronic payment systems, e-commerce fraud detection techniques.

vaidas.jusevicius@mif.vu.lt

Vytautas Karpavičius.

vytautas.karpavicius@mif.vu.lt

Asta Krupavičiūtė.

asta.krupaviciute@mif.vu.lt

Andrius Kurtinaitis. Computer models of physical processes, visualization of scientific data Database management systems.

andrius.kurtinaitis@mif.vu.lt

Kristina Lapin. Human computer interaction (HCI), user experience design (UED), teaching of HCI and UED, mobile interfaces.

kristina.lapin@mif.vu.lt

Žilvinas Ledas. Computational modeling of bacterial behavior and augmented reality.

zilvinas.ledas@mif.vu.lt

Linus Litvinas. Computer simulation of biosensors, artificial neural networks.

linas.litvinas@mif.vu.lt

Marius Lozda.

marius.lozda@mif.vu.lt

Audronė Lupeikienė. Information systems, service-oriented architecture, software engineering.

audrone.lupeikiene@mii.vu.lt

Saulius Minkevičius. System theory.

saulius.minkevicius@mii.vu.lt

Elita Pakalnackienė. Methods of conceptual modeling, their enrichment with integrity requirements.

elita.pakalnackiene@mif.vu.lt

Stasys Peldžius. Software process modelling, assessment and improvement.

stasys.peldzius@mif.vu.lt

Karolis Petrauskas. Computer simulation of nonlinear diffusion and reaction processes.

karolis.petrauskas@mif.vu.lt

Olga Petrova.

olga.petrova@mif.vu.lt

Tomas Plankis. Elliptic curves, programming in Windows API.

tomas.plankis@mif.vu.lt

Viačeslav Pozdniakov. Functional programming, category theory.

viaceslav.pozdniakov@mif.vu.lt

Saulius Ragaišis. Software process modelling, assessment and improvement, software engineering education, electronic signature and electronic documents.

saulius.ragaisis@mif.vu.lt

Tomas Rukšėnas.

tomas.ruksenas@mif.vu.lt

Laura Savičienė. Software process improvement, aircraft collision probability and decision support system.

laura.saviciene@mif.vu.lt

Valdas Undžėnas. Electronic signature.

valdas.undzenas@mif.vu.lt

Karolis Uosis.

karolis.uosis@mif.vu.lt

Vytautas Valaitis. Artificial neural networks, multi-agent evolving systems.

vytautas.valaitis@mif.vu.lt

Donatas Čiukšys. Business process ontology, business process knowledge reuse, software systems architecture.

donatas.ciuksys@mif.vu.lt

Vytautas Čyras. Legal informatics, compliance, contracts in SOA.

vytautas.cyras@mif.vu.lt

Albertas Šermokas. Geographical information systems, analysis and modelling Information system: design, architecture, implementation, project management.

albertas.sermokas@mif.vu.lt

DOCTORAL STUDENTS

Edvinas Greičius.

edvinas.greicius@mif.vu.lt

Liutauras Ričkus. Computer modeling of biosensors.

liutauras.rickus@mif.vu.lt

DOCTORAL DISSERTATIONS

1. **Vytautas Ašeris**, *Computational modelling of biosensors utilizing intermediate substances*, advisor prof. Romas Baronas.
2. **Tatjana Bakšajeva**, *Asymptotic distributions related to the Ewens sampling formula*, advisor prof. Eugenijus Manstavičius.
3. **Kristina Kaulakytė**, *Nonhomogeneous boundary value problem for the stationary Navier-Stokes system in domains with noncompact boundaries*, advisor prof. Konstantinas Pileckas.
4. **Neringa Klovienė**, *Non-stationary Poiseuille type solutions for the second grade fluid flow problem in cylindrical domains*, advisor prof. Konstantinas Pileckas.
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12. **Albertas Zinevičius**, *Curves over number fields and their rings of integers*, advisor prof. Artūras Dubickas.
13. **Laura Paulionienė**, *Erdvės – laiko duomenų statistinis modeliavimas, pagrįstas laiko eilučių parametrų erdviniu interpoliavimu*, defended externally.

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Karolis Petrauskas, see [66].
Konstantinas Pileckas, see [44].
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Alfredas Račkauskas, see [17].
65. Šarūnas Raudys, Portfolio of Automated Trading Systems: Complexity and Learning Set Size Issues, *IEEE Transactions on Neural Networks and Learning Systems*, 24(3), p. 448–459.
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1. **Algirdas Ambrazevičius, Pranas Katauskis, Vladas Skakauskas**, Coupled Systems of Ordinary, Partial, and Integrodifferential Equations, No. MIP-052/2012, 2012 – 2014.
2. **Vytautas Ašeris, Romas Baronas, Karolis Petrauskas, Dainius Šimelevičius**, Developing computational techniques, algorithms and tools for efficient simulation and optimization of biosensors of complex geometry, No. VP1-3.1-ŠMM-07-K-01-073/MTDS-110000-583.
3. **Romas Baronas, Feliksas Ivanauskas**, Lithuanian Science Prize for research work "Mathematical modelling of nonlinear processes and systems in nonhomogeneous media (1997–2011)".
4. **Mindaugas Bloznelis, Valentas Kurauskas**, Realių tinklų matematiniai modeliai ir jų tyrimas, No. MIF-067/2013.
5. **Vaidotas Characiejus, Raimondas Malukas, Martynas Manstavičius, Rimas Norvaiša, Alfredas Račkauskas**, Konkrečioji funkcinė analizė ir tikimybių teorija: nauji metodai ir jų taikymas, Nr. MIP-53/2012/LSS-580000-456. 2012-2014 m.
6. **Gintautas Dzemyda, Tadas Meškauskas**, Theoretical and engineering aspects of e-service technology development and application in high-performance computing platforms, No. VP1-3.1-ŠMM-08-K-01-010, 2012–2015.
7. **Remigijus Leipus, Donata Pupilinskaitė, Jonas Šiaulys, Donatas Surgailis**, Netiesinė ilgoji atmintis, sunkios uodegos ir agregavimas, Nr. MIP-063/2013/LSS-580000-423. 2013-2015 m.
8. **Vygantas Paulauskas, Marijus Vaičiulis**, Ekstremalių reikšmių indekso vertinimas, Nr. MIP-076/2013. 2013-2014 m.

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1. **Feliksas Ivanauskas**, Michael Shur, **Rimantas Vaicekauskas**, Henrikas Vaitkevičius, Artūras Žukauskas, Multiwavelength solid-state lamps with an enhanced number of rendered colors, *U.S. Patent No 8,436,526*.
2. Michael Shur, Arūnas Tuzikas, **Rimantas Vaicekauskas**, Pranciškus Vitta, Artūras Žukauskas, Daugiaspalviai kietakūniai šviesos šaltiniai, skirti apšviečiamų paviršių spalvų sodrio valdymui, *LT Patentas Nr. 5918*.
3. Michael Shur, Arūnas Tuzikas, **Rimantas Vaicekauskas**, Pranciškus Vitta, Artūras Žukauskas, Polychromatic solid-state light sources for the control of colour saturation of illuminated surfaces, *LT Patent Nr. 5918*.
4. Michael Shur, Arūnas Tuzikas, **Rimantas Vaicekauskas**, Pranciškus Vitta, Artūras Žukauskas, Polychromatic solid-state light sources for the control of colour saturation of illuminated surfaces, *PCT Patent App. No WO2013009157*.

SCIENTIFIC CONTACTS

PARTICIPATION IN INTERNATIONAL PROJECTS

1. Algis Abaravičius, Francesco Capozzi, **Alminas Čivilis**, CHANCE: Cooperation Theme 2: Food, Agriculture, Fisheries, and Biotechnology, FP7-KBBE-2010-4, 2011 – 2013.
2. **Algimantas Juozapavičius**, FP7 Project EGI-InSPIRE, 2010–2014.
3. **Algimantas Juozapavičius**, MD2T: Speech Recognition of Medical Diagnosis and Conversion to Text, MITA high-tech development programme, 2011–2013.
4. **Rūta Levulienė**, The project of EU 7th framework programme: Low Cost Technologies and Traditional Ingredients for the Production of Affordable, Nutritionally Correct, Convenient Foods Enhancing Health in Population Groups at Risk of Poverty, grant agreement no: 266331, 2011–2013.
5. Antanas Mitašiunas, Advisory Board member, author and reviewer of Enterprise SPICE project.
6. Antanas Mitašiunas, Work Package leader of FP7 project eINTERASIA „ICT Transfer Concept for Adaptation, Dissemination and Local Exploitation of European Research Results in Central Asia’s Countries.
7. **Konstantinas Pileckas**, Asymptotic Problems and Applications, Lithuanian-Swiss programme Research and Development, project No. CH-3-ŠMM-01/01. 2012 – 2016.
8. **Vladas Tumasonis, Jonas Žagūnas**, Development of Lithuanian Philological Font Palemonas, VP2-3.1-IVPK-12-K-01-005, 2013.

RESEARCH VISITS

1. **Gintautas Bareikis**, Erdős Centennial conference, Budapest, Hungary, July 1–5.
2. **Mindaugas Bloznelis**, Queen Mary University of London, February 20–23.
3. **Mindaugas Bloznelis**, Warsaw university, April 17–20.
4. **Mindaugas Bloznelis**, Bielefeld, Budapest, June 15–30.
5. **Mindaugas Bloznelis**, Poznan, August 3–11.
6. **Mindaugas Bloznelis**, Bielefeld, Dusseldorf, Marseile (seminar lectures at Bielefeld university, Dusseldorf university), October 14–December 1.
7. **Mindaugas Bloznelis**, Harvard, USA, December 14–17.
8. **Linas Bukauskas**, University of Zurich, Switzerland, February 18 – 20.
9. **Linas Būtėnas**, Uppsala University, Sweden, February 4 – 6.
10. **Alicija Eismontaitė**, University of Zurich, Switzerland, November 12 – 16.
11. **Alicija Eismontaitė**, Summer School Mathematical Theory in Fluid Mechanics, Kacov, Czech Republic, May 24 – 31.
12. **Irus Grinis**, Bioinformatics Workshop, Prague, April 22–26, April 22–26.

13. **Justas Kalpokas**, 18th ÖMG Congress and Annual DMV Meeting, Innsbruck, September 23 – 27.
14. **Kęstutis Karčiauskas**, Darmstadt TU, Germany, April 24 – 26.
15. **Kęstutis Karčiauskas**, 14th IMA Conference on Mathematics of Surfaces, University of Birmingham, UK, September 11 – 13.
16. **Kęstutis Karčiauskas**, SIAM Conference on Geometric and Physical Modeling, Denver, Colorado, USA, November 11 – 14.
17. **Kristina Kaulakytė**, University of Zurich, Switzerland, November 12 - 16.
18. **Neringa Klovienė**, University of Zurich, Switzerland, November 12 - 16.
19. **Rimvydas Krasauskas**, Banff Center, Calgary, Canada, January 26 – February 2.
20. **Rimvydas Krasauskas**, KAUST, Tuwal, Saudi Arabia, December 4 – 10.
21. **Remigijus Leipus**, Nonstationarity and risk management: final workshop of the thematic cycle of the Institut des études avancées de l'Université de Cergy-Pontoise, 21-25 January, 2013, Luminy, France.
22. **Remigijus Leipus**, Erasmus mobilumo vizitas į Vrije Universitet, Amsterdam. 2013 05 16–19.
23. **Remigijus Leipus**, 3rd Long-Memory Symposium. CREATES, Aarhus University, 26–28 June, 2013.
24. **Remigijus Leipus**, CFE 2013: 7th CSDA international conference on computational and financial econometrics and 6th international conference of the ERCIM working group on computational and methodological statistics, 14–16 December, 2013, London.
25. **Aušra Maldeikienė**, Stažuotė Taivano nacionaliniame universitete. 2013 02 01–07 31.
26. **Jurgita Markevičiūtė**, Lille 1 University, France. Cotutorial theses visit. 2013 01 26–01 25.
27. **Tadas Meškauskas**, EUROSIM 2013, Cardiff, Wales, UK, September 10-12.
28. **Gediminas Murauskas**, Student Information Systems, Slovakia, Czech Republic, 2013 06 05–08.
29. **Konstantinas Pileckas**, University of Zurich, Switzerland, November 12 - 16.
30. **Konstantinas Pileckas**, University of Zurich, Switzerland, November 12-15.
31. **Konstantinas Pileckas**, Yonsei University, South Korea, February 21 - March 3.
32. **Aleksandras Ernestas Plikusas**, Summer School on Survey Statistics Theory and Methodology, Minsk, 2013 06 13 – 06 20.
33. **Donata Puplinskaitė**, Nante University, France. Cotutorial theses visit. 2013 01 26-01 25.
34. **Vilius Stakėnas**, Erdős Centennial conference, Budapest, Hungary, July 1–5.
35. **Gediminas Stepanauskas**, Erdős Centennial conference, Budapest, Hungary, July 1–5.
36. **Gediminas Stepanauskas**, Numbers, Functions, Equations'2013. International Conference, Visegrad, Hungary, June 29-30.
37. **Gediminas Stepanauskas**, Voronoi Conference on Analytic Number Theory and Spatial Tessellations, Kiev, Ukraine, September 15–21.
38. **Vytas Zacharovas**, Institute of Statistical Science, Academia Sinica, Taiwan, January 1–30.
39. **Vytas Zacharovas**, Voronoi Conference on Analytic Number Theory and Spatial Tessellations, Kiev, Ukraine, September 15–21.
40. **Vytas Zacharovas**, ALEA in Europe, Marseille, France, October 20–26.
41. **Vytas Zacharovas**, Institute of Statistical Science, Academia Sinica, Taiwan, December 23–31.
42. **Severinas Zubė**, Banff Center, Calgary, Canada, January 26 – February 2.

FOREIGN VISITORS

1. Prof. Michel Chipot, University of Zurich, Switzerland, June, August.
2. Prof. Youri Davydov, Lille 1 University, France. 2013 10 24–2013 10 27.
3. Prof. Liudas Giraitis, Queen Mary, University of London. 2013 10 24–2013 10 27.
4. Prof. Alexander Iksanov, Kiev university, Ukraine, January.
5. Prof. Adam Jakubowski, Nicolaus Copernicus University. 2013 10 24–2013 10 27.
6. Prof. Mikhail Korobkov, Novosibirsk State University, Russia, January.
7. Mikko Kuronen, Jyväskylä university, Finland, February.
8. Prof. Lasse Leskelä, Jyväskylä university, Finland, February.
9. Prof. Anne Philippe, Nante University, France. 2013 10 24–2013 10 27.
10. Prof. Vladislav Pukhnachev, Novosibirsk State University, Russia, October.
11. Prof. Maria Specovius-Neugebauer, University of Kassel, Germany, August.
12. Prof. Maria Specovius-Neugebauer, University of Kassel, Germany, August.
13. Prof. Charles Suquet, Lille 1 University, France. 2013 10 24–2013 11 02.
14. Dr. Alfonsina Tartaglione, Second University of Naples, Italy, October.
15. Prof. Dalibor Volny, Rouen University. 2013 10 24–2013 10 27.

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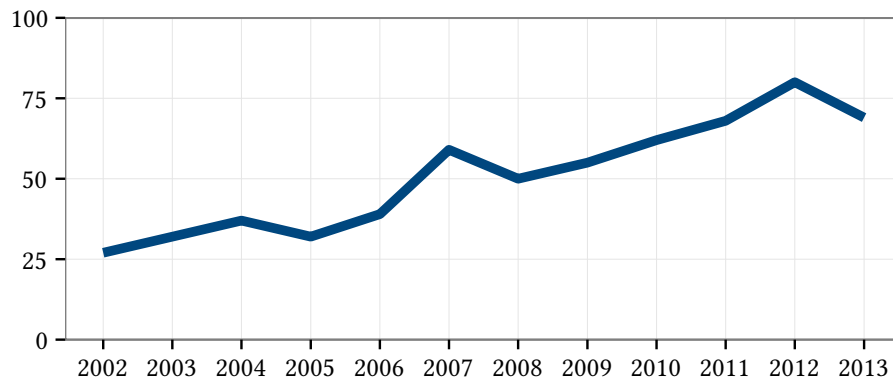
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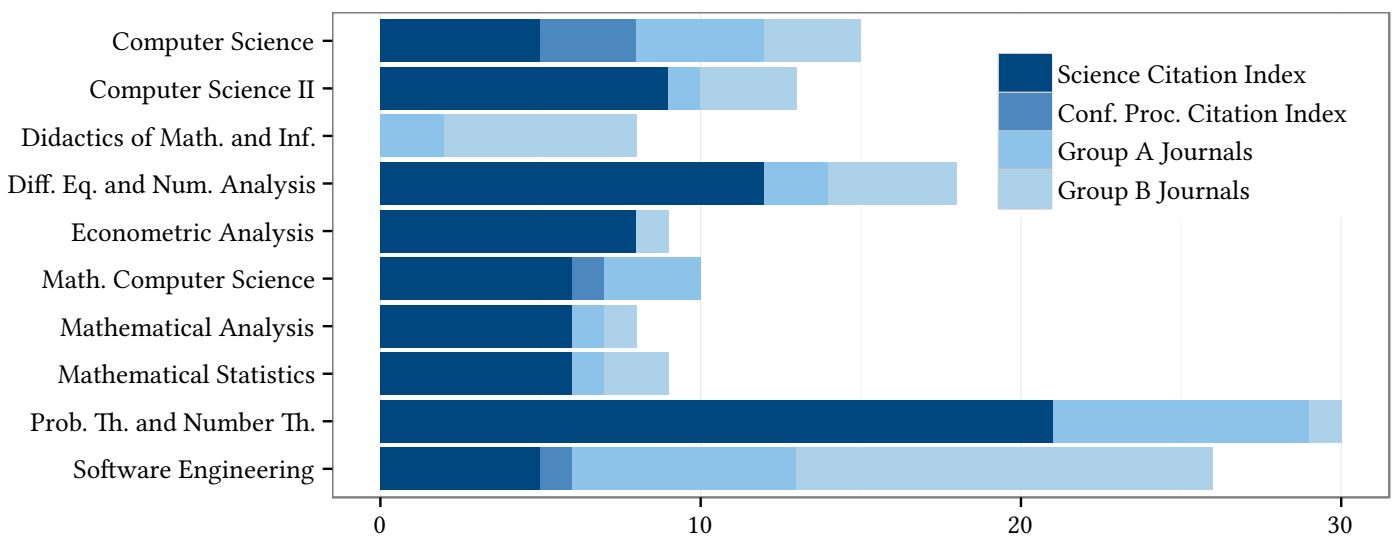
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