

VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS FAKULTETAS



VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS AND INFORMATICS

Publications Report Year 2015



Vilnius
2016

CONTENTS

Faculty of Mathematics and Informatics	1
Department of Computer Science	1
Department of Computer Science II	3
Department of Didactics of Mathematics and Informatics	5
Department of Differential Equations and Numerical Analysis	6
Department of Econometric Analysis	7
Department of Mathematical Analysis	8
Department of Mathematical Computer Science	9
Department of Mathematical Statistics	10
Department of Probability Theory and Number Theory	11
Department of Software Engineering	13
Doctoral Dissertations	15
Publications	16
Articles included in Thomson Reuters Science Citation Index	16
Articles included in Thomson Reuters Conference Proceedings Citation Index	22
Articles in group A journals	23
Articles in group B journals	27
Articles on the history of mathematics	28
Textbooks	28
Books and lecture notes	28
Conference reports	28
Research grants and awards	31
Scientific contacts	31
Participation in international projects	31
Research visits	32
Foreign visitors	33
Name index	34

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/lt3/struktura/katedros/inf>

Head Prof. Rimantas Vaicekuskas
Phone: +370 5 219 5010
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 Birštunas. 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
Rimantas Kybartas. Machine learning.	rimantas.kybartas@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

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

Rimantas Vaicekauskas. Modelling of lighting systems with advanced colour rendering properties. Parallel computing.
rimantas.vaicekauskas@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

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

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

DEPARTMENT OF COMPUTER SCIENCE II

<http://mif.vu.lt/lt3/struktura/katedros/komp>

Head Doc. Tadas Meškauskas

Phone: +370 5 219 5000

tadas.meskauskas@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.beniuse@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

Linās Bukauskas. Database support for visual data mining, indexing of visible objects, information retrieval spatio-temporal databases, ER modelling.

linas.bukauskas@mif.vu.lt

Linās 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@mif.vu.lt

Kęstutis Karčiauskas. Computer-aided geometric design, multisided rational surface patches.

kestutis.karciauskas@mif.vu.lt

Pijus Kasparaitis. Text-to-speech synthesis.

pkasparaitis@yahoo.com

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

Rytis Malakauskas. Computer networks, virtualization technologies, distributed, GRID and cloud computing, network calculus.

rytis.malakauskas@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

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`

Vaida Čeikutė. `vaida.ceikute@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

Rokas Astrauskas. `rokas.astrauskas@mif.stud.vu.lt`

Justinas Vygintas Daugmaudis. `justinas.daugmaudis@mif.stud.vu.lt`

Andrius Vytautas Misiukas Misiūnas. `misiunas.andrius@gmail.com`

Vilius Okockis. `vilius.okockis@mif.vu.lt`

DEPARTAMENT OF DIDACTICS OF MATHEMATICS AND INFORMATICS

<http://mif.vu.lt/lt3/struktura/katedros/mim>

Head Doc. Edmundas Mazėtis
Phone: +370 5 219 3086
edmundas.mazetis@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

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

DEPARTMENT OF DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS

<http://mif.vu.lt/lt3/struktura/katedros/dlsm>

Head Prof. Konstantinas Pileckas
Phone: +370 5 219 3073
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 Daušas.** Optimization methods.
vaclovas.dausas@mif.vu.lt
- Aleksas Domarkas.** Solvability of nonlinear Schrödinger-type equations.
aleksas.domarkas@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.
neringa.kloviene@mif.vu.lt
- 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
- Mindaugas Skujus.** Asymptotic conditions at infinity for non-stationary Stokes and Navier–Stokes problems.
mindaugas.skujus@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@mif.vu.lt
- Gailė Paukštaitė.** Generalized Green’s functions.
gaile.paukstaite@mif.vu.lt

DEPARTMENT OF ECONOMETRIC ANALYSIS

<http://mif.vu.lt/lt3/struktura/katedros/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, mathematical analysis, functional analysis, history and philosophy of mathematics.

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

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

alfredas.rackauskas@mif.vu.lt

Vaidotas Zemlys. Econometric analysis of mixed frequency data, exploratory data analysis of large datasets, applications of econometric methods for business problems.

vaidotas.zemlys@mif.vu.lt

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

vydas.cekanavicius@mif.vu.lt

DOCTORAL STUDENTS

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

Agnė Reklaitė. Factorial and structural models in econometrics.

agne.reklaite@mif.vu.lt

Mantas Tartėnas. Default prediction models.

mantas.tartenas@gmail.com

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

jurate.sliogere@mif.vu.lt

DEPARTMENT OF MATHEMATICAL ANALYSIS

<http://mif.vu.lt/lt3/struktura/katedros/ma>

Head Prof. Jonas Šiaulys
Phone: +370 5 219 3074
jonas.siaulys@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 Lenksas. Numerical solution of SDEs. antanas.lenksas@mif.vu.lt
Kęstutis Liubinskas. Actuarial mathematics. kestutis.liubinskas@mif.vu.lt
Vigirdas Mackevičius. Stochastic analysis, stochastic numerics.
vigirdas.mackevicius@mif.vu.lt
Martynas Manstavičius. Levy processes, path properties of random process, copulas and dependence modeling.
martynas.manstavicius@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 sciences. aldona.skucaite@mif.vu.lt
Gediminas Stepanauskas (since September 1). Mean values and limit theorems for arithmetic functions.
gediminas.stepanauskas@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
Julius Damarackas. Limit theorems and measures of dependence for random processes and fields with infinite variance.
julius.damarackas@mif.vu.lt
Eglė Ignatavičiūtė. Risk theory, capital allocation. ignataviciute.egle@gmail.com
Agneška Korvel. Actuarial mathematics. agneska.korvel@gmail.com
Gytenis Lileika. Stochastic analysis, stochastic numerics. gytenis.lileika@gmail.com
Olga Navickienė. Actuarial mathematics. olga.navickiene@mif.vu.lt
Laura Žvinytė (since September 1). Limit distributions of sums of additive functions.
l.zvinyte@eif.viko.lt

DEPARTMENT OF MATHEMATICAL COMPUTER SCIENCE

<http://mif.vu.lt/lt3/struktura/katedros/mi>

Head Doc. Vilius Stakėnas

Phone: +370 5 219 5030

vilius.stakenas@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. Transfer operators, structural constants, modular forms, differential and algebraic geometry. 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

Irus Grinis. Polyvalent interactions in biological systems.

irus.grinis@mif.vu.lt

Mindaugas Kepalas. Random graphs and algorithms.

mindaugas.kepalas@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 (to August 31). 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

Laura Žvinytė (to August 31). Limit distributions of sums of additive functions.

l.zvinyte@eif.viko.lt

DEPARTMENT OF MATHEMATICAL STATISTICS

<http://mif.vu.lt/lt3/struktura/katedros/ms>

Head Dr. 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

Jeremy Daniel Besson. Data Mining, innovation. contact.jeremy.besson@gmail.com

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

Julius Jonas Kruopis. Mathematical statistics, quality control.

julius.kruopis@mif.vu.lt

Rūta Levulienė. Mathematical statistics, reliability, survival analysis.

ruta.levuliene@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/lt3/struktura/katedros/ttsk>

Head Prof. Antanas Laurinčikas
Phone: +370 5 219 3078
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.

laima.kaziulyte@mif.vu.lt

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. Number theory, recurrence sequences.

jonas.siurys@mif.vu.lt

DOCTORAL STUDENTS

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

Asta Mincevič. Values distribution of the Lerch zeta-function.

astulka.m@gmail.com

Dmitrij Mochov. Universality of non-classical zeta-functions.

dmochov@gmail.com

Tadas Panavas. Analytic number theory.

panavas.tadas@gmail.com

Robertas Petuchovas. Analytic theory of permutations.

robertas.petuchovas@mif.vu.lt

Audronė Rimkevičienė. Value-distribution of periodic Hurwitz zeta-function.

audronerim@gmail.com

Vytautas Stepas. Additive functions on permutations.

vytautas.stepas@mif.vu.lt

Mindaugas Stoncelis. Universality of the periodic zeta-functions.

mindaugas@stoncelis.lt

Rokas Tamošiūnas. Analytic number theory. `rokas.tamosiunas@mif.vu.lt`
Piotr Tarasov. Graph colouring problems. `piotr.tarasov@mif.vu.lt`
Gražvydas Šemetulskis. Algebraic and combinatorial number theory. `grazvydas.semetulskis@mif.vu.lt`
Raivydas Šimėnas. Analytic number theory. `raivydas.simenas@mif.vu.lt`

DEPARTMENT OF SOFTWARE ENGINEERING

<http://mif.vu.lt/lt3/struktura/katedros/ps>

Head Prof. Romas Baronas

Phone: +370 5 219 5040

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

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

Raimondas Jasevičius. Industrial engineering, human biology, computing in mathematics, natural science, engineering and medicine.

raimondas.jasevicius@vgtu.lt

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

vaidas.jusevicius@mif.vu.lt

Vytautas Karpavičius.

vytautas.karpavicius@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

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

Tomas Plankis. Image analysis, 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

Darius Sauliūnas.

darius.sauliunas@mif.vu.lt

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

laura.saviciene@mif.vu.lt

Karolis Uosis.

karolis.uosis@mif.vu.lt

Asta Vaitkevičienė. asta.vaitkeviciene@mif.vu.lt
Vytautas Valaitis. Artificial neural networks, multi-agent evolving systems.
vytautas.valaitis@mif.vu.lt
Julija Vysockytė. Requirements analysis and specification, software process modeling.
julija.vysockyte@insoft.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
Ivona Šurpicka. Requirements engineering, agile software development methods.
ivona.surpicka@mif.vu.lt

DOCTORAL STUDENTS

Edvinas Greičius. edvinas.greicius@mif.vu.lt
Linus Litvinas. Computer simulation of biosensors, artificial neural networks.
linas.litvinas@mif.vu.lt
Linus Petkevičius. Deep neural networks, image processing and analysis, mathematical modelling and mathematical statistics.
linas.mif.vu@gmail.com
Liutauras Ričkus. Computer modeling of biosensors. liutauras.rickus@mif.vu.lt

DOCTORAL DISSERTATIONS

1. **Jovita Astopienė**, *Discrete universality theorems for the Riemann and Hurwitz zeta-functions*, advisor prof. Antanas Laurinčikas.
2. **Vaidotas Characiejus**, *Asymptotic behaviour of long memory functional linear processes*, advisor prof. Alfredas Račkauskas.
3. **Erikas Karikovas**, *Self-approximation of Hurwitz zeta-functions*, advisor prof. Ramūnas Garunkštis.

PUBLICATIONS

ARTICLES INCLUDED IN THOMSON REUTERS SCIENCE CITATION INDEX¹

1. **Giedrius Alkauskas**, The projective translation equation and unramified 2-dimensional flows with rational vector fields, *Aequationes Mathematicae*, **89**(3), p. 873–913.
 2. **Algirdas Ambrazevičius**, Solvability theorem for a mathematical bimolecular reaction model, *Acta Applicandae Mathematicae*, **140**(1), p. 95–109.
 3. S. Bang, **Artūras Dubickas**, J.H. Koolen, V. Moulton, There are only finitely many distance-regular graphs of fixed valency greater than two, *Advances in Mathematics*, **269**, p. 1–55.
 4. **Gintautas Bareikis**, **Algirdas Mačiulis**, On the second moment of an arithmetical process related to the natural divisors, *Ramanujan Journal*, **37**(1), p. 1–24.
 5. Jurgis Barkauskas, **Romas Baronas**, Julija Razumienė, Ieva Šakinytė, Nano-structured carbon materials for improved biosensing applications, *Applied Surface Science*, **334**, p. 185–191.
 6. **Romas Baronas**, **Raimondas Jasevičius**, Harald Kruggel-Emden, Numerical modelling of the normal adhesive elastic–plastic interaction of a bacterium, *Advanced Powder Technology*, **26**(3), p. 742–752.
 7. **Romas Baronas**, **Žilvinas Ledas**, Remigijus Šimkus, Computational modeling of the bacterial self-organization in a rounded container: the effect of dimensionality, *Nonlinear Analysis: Modelling and Control*, **20**(4), p. 603–620.
- Romas Baronas**, see [5].
8. Joakim Beck, Eric S. Fraga, Audrius Varoneckas, **Antanas Žilinskas**, Visualization of multi-objective decisions for the optimal design of a pressure swing adsorption system, *Chemometrics and Intelligent Laboratory Systems*, **142**, p. 151–158.
 9. **Emilija Bernackaitė**, **Jonas Šiaulys**, The exponential moment tail of inhomogeneous renewal process, *Statistics and Probability Letters*, **97**, p. 9–15.
 10. Peter Borwein, Stephen Choi, Ron Ferguson, **Jonas Jankauskas**, On littlewood polynomials with prescribed number of zeros inside the unit disk, *Canadian Journal of Mathematics*, **67**(3), p. 507–526.
 11. Eugenijus Buivydas, **Antanas Laurinčikas**, A discrete version of the Mishou theorem, *The Ramanujan Journal*, **38**(2), p. 331–347.
 12. Eugenijus Buivydas, **Antanas Laurinčikas**, A generalized joint discrete universality theorem for the Riemann and Hurwitz zeta-functions, *Lithuanian Mathematical Journal*, **55**(2), p. 193–206.
 13. **Vydas Čekanavičius**, **Aisté Elijo**, Compound Poisson approximation to weighted sums of symmetric discrete variables, *Annals of the Institute of Statistical Mathematics*, **67**(1), p. 195–210.
 14. **Vydas Čekanavičius**, **Jūratė Šliogerė**, Two limit theorems for Markov binomial distribution, *Lithuanian Mathematical Journal*, **55**(3), p. 451–463.

¹Thomson Reuters Web of Knowledge, Web of Science, Science Citation Index ([online search](#))

15. Vydas Čekanavičius, Palaniappan Vellaisamy, Discrete approximations for sums of m -dependent random variables, *Alea : Latin American journal of probability and mathematical statistics*, **12**, p. 765–792.
 16. Vydas Čekanavičius, Palaniappan Vellaisamy, A compound poisson convergence theorem for sums of m -dependent variables, *Journal of Theoretical Probability*, **28**(3), p. 1145–1164.
 17. Sondra Černigova, Antanas Laurinčikas, On the mean square of the periodic zeta-function. II, *Nonlinear Analysis : Modelling and Control*, **20**(1), p. 99–111.
 18. Vytautas Čyras, Friedrich Lachmayer, Kristina Lapin, Structural legal visualization, *Informat-ica*, **26**(2), p. 199–219.
 19. Valentina Dagienė, Vladimiras Dolgopолоvas, Saulius Minkevičius, Leonidas Sakalauskas, Teaching scientific computing: a model-centered approach to pipeline and parallel programming with C, *Scientific Programming*, article no. 820803.
 20. Julius Damarackas, Jonas Šiaulys, A note on the net profit condition for discrete and classical risk models, *Lithuanian Mathematical Journal*, **55**(4), p. 465–473.
 21. Svetlana Danilenko, Jonas Šiaulys, Random convolution of O-exponential distributions, *Non-linear Analysis: Modelling and Control*, **20**(3), p. 447–454.
 22. Lina Dindienė, Remigijus Leipus, Yang Yang, On the max-sum equivalence in presence of negative dependence and heavy tails, *Information Technology and Control*, **44**(2), p. 215–220.
 23. Lina Dindienė, Remigijus Leipus, A note on the tail behavior of randomly weighted and stopped dependent sums, *Nonlinear Analysis : Modelling and Control*, **20**(2), p. 263–273.
 24. Šarūnas Dirmeikis, Rimas Norvaiša, An extended product integral, a modified linear integral equation, and functions of bounded p -variation, *Lithuanian Mathematical Journal*, **55**(3), p. 343–366.
 25. Paulius Drungilas, Artūras Dubickas, Jonas Jankauskas, On relations for rings generated by algebraic numbers and their conjugates, *Annali Di Matematica Pura Ed Applicata*, **194**(2), p. 369–385.
 26. Artūras Dubickas, Jonas Jankauskas, Simple linear relations between conjugate algebraic numbers of low degree, *Journal of the Ramanujan Mathematical Society*, **30**(2), p. 219–235.
 27. Artūras Dubickas, Antanas Laurinčikas, Joint discrete universality of Dirichlet L-functions, *Archiv Der Mathematik*, **104**(1), p. 25–35.
 28. Artūras Dubickas, Min Sha, Igor Shparlinski, Explicit form of Cassels' p -adic embedding theorem for number fields, *Canadian Journal of Mathematics*, **67**(5), p. 1046–1054.
 29. Artūras Dubickas, Min Sha, Counting and testing dominant polynomials, *Experimental Mathematics*, **24**(3), p. 312–325.
 30. Artūras Dubickas, Min Sha, Counting degenerate polynomials of fixed degree and bounded height, *Monatshefte Für Mathematik*, **177**(4), p. 517–537.
- Artūras Dubickas, see [3].
- Artūras Dubickas, see [25].
- Rimantas Eidukevičius, see [43].
- Aistė Elijo, see [13].
31. Vytenis Gavelis, Mindaugas Luneckas, Tomas Luneckas, Dainius Udris, Vytautas Valaitis, Piezo-electric force sensors for hexapod transportation platform, *Transport : special issue on smart and sustainable transport*, **30**(3), p. 294–297.

32. Peter Gray, **Pranas Katauskis**, **Vladas Skakauskas**, Alex Skvortsov, Toxin effect on protein biosynthesis in eukaryotic cells: a simple kinetic model, *Mathematical Biosciences*, **261**, p. 83–90.
 33. **Saulius Gražulis**, Andrius Merkys, Mykolas Okulič-Kazarinas, Antanas Vaitkus, Computing stoichiometric molecular composition from crystal structures, *Journal of Applied Crystallography*, **48**(1), p. 85–91.
 34. **Andrius Grigutis**, **Agneška Korvel**, **Jonas Šiaulyš**, Ruin probabilities of a discrete-time multi-risk model, *Information Technology and Control*, **44**(4), p. 367–379.
 35. **Andrius Grigutis**, Darius Šiaučiūnas, On the modulus of the Selberg Zeta-Functions in the critical strip, *Mathematical Modelling and Analysis*, **20**(6), p. 852–865.
 36. Jorgen Drud Hansen, **Virmantas Kvedaras**, Jorgen Ulff-Moller Nielsen, Creative destruction and export patterns, *The Journal of International Trade*, **24**(3), p. 373–394.
 37. Hsien-Kuei Hwang, **Vytas Zacharovas**, Limit distribution of the coefficients of polynomials with only unit roots, *Random Structures and Algorithms*, **46**(4), p. 707–738.
 38. **Eglė Ignatavičiūtė**, **Jonas Šiaulyš**, Yang Yang, Conditional tail expectation of randomly weighted sums with heavy-tailed distributions, *Statistics and Probability Letters*, **105**, p. 20–28.
 39. **Feliksas Ivanauskas**, Aivaras Kareiva, **Simonas Kareiva**, Simas Šakirzanovas, Algirdas Selskis, Scanning electron microscopy: extrapolation of 3D data from SEM micrographs, *Materials Science (medžiagotyra)*, **21**(4), p. 640–646.
 40. **Feliksas Ivanauskas**, Aivaras Kareiva, Mažvydas Mackevičius, **Vigirdas Mackevičius**, Andrius Stanulis, Computer modeling of synthesis of strontium stannates at high temperatures, *Journal of Mathematical Chemistry*, **53**(5), p. 1227–1238.
 41. **Feliksas Ivanauskas**, **Simonas Kareiva**, Simas Šakirzanovas, Algirdas Selskis, Stereophotography and spatial surface reconstruction using scanning electron microscopy images, *Pure and Applied Chemistry*, **87**(3), p. 283–292.
 42. **Feliksas Ivanauskas**, **Arvydas Kregždė**, Aleksas Pikturna, Analysing the funding changes of Lithuanian higher education, *Transformations in Business & Economics*, **14**(3), p. 38–53.
- Jonas Jankauskas**, see [10].
- Jonas Jankauskas**, see [25].
- Jonas Jankauskas**, see [26].
- Raimondas Jasevičius**, see [6].
43. Jurgita Juršėnaitė, Irutė Girkontaitė, Mykolas Mauricas, **Rimantas Eidukevičius**, Almantas Šiaurys, Dainius Characiejus, Bioluminescence imaging of adoptively transferred lymphocytes during allogeneic tumor rejection, *Anticancer Research*, **35**(12), p. 6573–6576.
 44. **Justas Kalpokas**, **Paulius Šarka**, Small values of the Riemann zeta function on the critical line, *Acta Arithmetica*, **169**(3), p. 201–220.
 45. **Kęstutis Karčiauskas**, Jörg Peters, Point-augmented biquadratic C1 subdivision surfaces, *Graphical Models*, **77**, p. 18–26.
 46. **Kęstutis Karčiauskas**, Jörg Peters, Smooth multi-sided blending of biquadratic splines, *Computers and Graphics*, **46**, p. 172–185.
 47. **Kęstutis Karčiauskas**, Jörg Peters, Can bi-cubic surfaces be class A?, *Computer Graphics Forum*, **34**(5), p. 229–238.

48. Kęstutis Karčiauskas, Jörg Peters, Biquintic G^2 surfaces via functionals, *Computer Aided Geometric Design*, **33**, p. 17–29.
49. Kęstutis Karčiauskas, Jörg Peters, Improved shape for multi-surface blends, *Graphical Models*, **82**, p. 87–98.
- Simonas Kareiva, see [39].
- Simonas Kareiva, see [41].
50. Pranas Katauskis, Vladas Skakauskas, Modelling of catalytic reactivity of inhomogeneous surfaces in monomer-monomer reactions, *Nonlinear Analysis: Modelling and Control*, **20**(3), p. 455–468.
51. Pranas Katauskis, Vladas Skakauskas, Computational study of the dimer–trimer and trimer–trimer reactions on the supported catalysts, *Computational and Theoretical Chemistry*, **1070**, p. 102–107.
52. Pranas Katauskis, Vladas Skakauskas, Modelling dimer–dimer reactions on supported catalysts, *Journal of Mathematical Chemistry*, **53**(2), p. 604–617.
53. Pranas Katauskis, Vladas Skakauskas, Three mean-field models for bimolecular reactions proceeding on planar supported catalysts, *Journal of Mathematical Chemistry*, **53**(10), p. 2123–2136.
- Pranas Katauskis, see [32].
54. Kristina Kaulakytė, On nonhomogeneous boundary value problem for the steady Navier-Stokes system in domain with paraboloidal and layer type outlets to infinity, *Topological Methods in Nonlinear Analysis*, **46**(2), p. 835–866.
55. Mikhail Korobkov, Konstantinas Pileckas, Remigio Russo, An existence theorem for steady Navier-Stokes equations in the axially symmetric case, *Annali della Scuola Normale Superiore di Pisa : Classe di Scienze*, **14**(1), p. 233–262.
56. Mikhail Korobkov, Konstantinas Pileckas, Remigio Russo, The Liouville theorem for the steady-state Navier–Stokes problem for axially symmetric 3D solutions in absence of swirl, *Journal of Mathematical Fluid Mechanics*, **17**(2), p. 287–293.
57. Mikhail Korobkov, Konstantinas Pileckas, Remigio Russo, Solution of Leray’s problem for stationary Navier-Stokes equations in plane and axially symmetric spatial domains, *Annals of Mathematics*, **181**(2), p. 769–807.
58. Daiva Korsakienė, Antanas Laurinčikas, Darius Šiaučiūnas, Joint discrete universality of Dirichlet L-functions. II, *Чебышевский Сборник*, **16**(1), p. 205–218.
- Agneška Korvel, see [34].
59. Rimvydas Krasauskas, Severinas Zubė, Representation of Dupin cyclides using quaternions, *Graphical Models*, **82**(10), p. 110–122.
60. Arvydas Kregždė, Gediminas Murauskas, Analysis of Lithuanian credit default swaps, *Journal of Business, Economics and Management*, **16**(5), p. 916–930.
61. Arvydas Kregždė, Steady state of sovereign debt in EU countries, *Transformations in Business and Economics*, **34**(1), p. 144–158.
- Arvydas Kregždė, see [42].
62. Dalius Krunglevičius, Competitive STDP learning of overlapping spatial patterns, *Neural Computation*, **27**(8), p. 1673–1685.
- Virmantas Kvedaras, see [36].

- Kristina Lapin, see [18].
63. Antanas Laurinčikas, A general joint discrete universality theorem for Hurwitz zeta-functions, *Journal of Number Theory*, 154, p. 44–62.
 Antanas Laurinčikas, see [11].
 Antanas Laurinčikas, see [12].
 Antanas Laurinčikas, see [17].
 Antanas Laurinčikas, see [27].
 Antanas Laurinčikas, see [58].
 Žilvinas Ledas, see [7].
 Remigijus Leipus, see [23].
 Remigijus Leipus, see [22].
64. Antanas Lenkšas, Vigirdas Mackevičius, A second-order weak approximation of Heston model by discrete random variables, *Lithuanian Mathematical Journal*, 55(4), p. 555–572.
65. Antanas Lenkšas, Vigirdas Mackevičius, Weak approximation of Heston model by discrete random variables, *Mathematics and Computers in Simulation*, 113, p. 1–15.
66. Mindaugas Luneckas, Tomas Luneckas, Dainius Udris, Vytautas Valaitis, Minimizing hexapod robot foot deviations using multilayer perceptron, *International Journal of Advanced Robotic Systems*, 12, p. 1–8.
 Algirdas Mačiulis, see [4].
67. Vigirdas Mackevičius, Verhulst versus CIR, *Lithuanian Mathematical Journal*, 55(1), p. 119–133.
 Vigirdas Mackevičius, see [40].
 Vigirdas Mackevičius, see [64].
 Vigirdas Mackevičius, see [65].
68. Eugenijus Manstavičius, Restrictive Patterns of Combinatorial Structures via Comparative Analysis, *Annals of Combinatorics*, 19(3), p. 545–555.
 Saulius Minkevičius, see [19].
 Gediminas Murauskas, see [60].
69. Rimantas Norvaiša, Weighted power variation of integrals with respect to a Gaussian process, *Bernoulli*, 21(2), p. 1260–1288.
 Rimantas Norvaiša, see [24].
70. Grigory Panasenko, Konstantinas Pileckas, Divergence equation in thin-tube structures, *Applicable Analysis*, 94(7), p. 1450–1459.
71. Grigory Panasenko, Konstantinas Pileckas, Asymptotic analysis of the non-steady Navier-Stokes equations in a tube structure. II. General case, *Nonlinear Analysis : Theory, Methods*, 125, p. 582–607.
72. Grigory Panasenko, Konstantinas Pileckas, Asymptotic analysis of the non-steady Navier-Stokes equations in a tube structure. I. The case without boundary-layer-in-time, *Nonlinear Analysis : Theory, Methods*, 122, p. 125–168.
73. Gailė Paukštaitė, Artūras Štikonas, Ordinary and generalized Green’s functions for the second order discrete nonlocal problems, *Boundary Value Problems*, article no. 207.

- Konstantinas Pileckas, see [55].
- Konstantinas Pileckas, see [56].
- Konstantinas Pileckas, see [57].
- Konstantinas Pileckas, see [70].
- Konstantinas Pileckas, see [71].
- Konstantinas Pileckas, see [72].
74. Darius Plikynas, Aistis Raudys, Šarūnas Raudys, Agent-based modelling of excitation propagation in social media groups, *Journal of Experimental*, 27(4), p. 373–388.
75. Donata Puplinskaitė, Donatas Surgailis, Scaling transition for long-range dependent Gaussian random fields, *Stochastic Processes and Their Applications*, 125(6), p. 2256–2271.
76. Alfredas Račkauskas, Charles Suquet, Computing the distribution of sequential Hölder norms of the Brownian motion, *Communications in Statistics – Theory and Methods*, 45(15), p. 4378–4391.
- Aistis Raudys, see [74].
- Šarūnas Raudys, see [74].
- Paulius Šarka, see [44].
- Jonas Šiaulys, see [9].
- Jonas Šiaulys, see [20].
- Jonas Šiaulys, see [21].
- Jonas Šiaulys, see [34].
- Jonas Šiaulys, see [38].
- Vladas Skakauskas, see [32].
- Vladas Skakauskas, see [50].
- Vladas Skakauskas, see [51].
- Vladas Skakauskas, see [52].
- Vladas Skakauskas, see [53].
77. Agnė Skučaitė, Artūras Štikonas, Spectrum curves for Sturm–Liouville problem with integral boundary condition, *Mathematical Modelling and Analysis*, 20(6), p. 802–818.
- Jūratė Šliogerė, see [14].
78. Vilius Stakėnas, Jonas Kubilius and genesis of probabilistic number theory, *Lithuanian Mathematical Journal*, 55(1), p. 25–47.
- Artūras Štikonas, see [73].
- Artūras Štikonas, see [77].
79. Jelena Tamulienė, Electronic and vibrational spectra of C₆₀ and its ions, *Fullerenes, Nanotubes, and Carbon Nanostructures*, 123(3), p. 187–195.
80. Rimantas Vaicekuskas, Artūras Žukauskas, Tunability of the circadian action of tetrachromatic solid-state light sources, *Applied Physics Letters*, 106(4), p. 041107.
- Vytautas Valaitis, see [31].
- Vytautas Valaitis, see [66].

Vytas Zacharovas, see [37].

81. **Antanas Žilinskas**, Visualization of a statistical approximation of the Pareto front, *Applied Mathematics and Computation*, 271, p. 694–700.

Antanas Žilinskas, see [8].

Severinas Zubė, see [59].

ARTICLES INCLUDED IN THOMSON REUTERS CONFERENCE PROCEEDINGS CITATION INDEX²

1. **Romas Baronas, Raimondas Jasevičius, Rimantas Kačianauskas, Harald Kruggel-Emden**, Modelling of the normal elastic dissipative interaction of a *S. aureus* bacterium, *Proceedings of the international conference on numerical analysis and applied mathematics 2014 (ICNAAM-2014), Rhodes, Greece, 22–28 September 2014*, 1648, p. 1–4.
2. **Mindaugas Bloznelis, Erhard Godehardt, Jerzy Jaworski, Valentas Kurauskas, Katarzyna Rybarczyk**, Recent Progress in Complex Network Analysis. Models of Random Intersection Graphs, *Data Science, Learning by Latent Structures, and Knowledge Discovery*, p. 69–78.
3. **Mindaugas Bloznelis, Erhard Godehardt, Jerzy Jaworski, Valentas Kurauskas, Katarzyna Rybarczyk**, Recent Progress in Complex Network Analysis. Properties of Random Intersection Graphs, *Data Science, Learning by Latent Structures, and Knowledge Discovery*, p. 79–88.
4. **Mindaugas Bloznelis**, Degree-degree distribution in a power law random intersection graph with clustering, *Algorithms and Models for the Web Graph: 12th International Workshop, WAW 2015, Eindhoven, The Netherlands, December 10–11, 2015 : proceedings*, p. 42–53.
5. **Vaida Čeikutė, Christian S Jensen**, Vehicle routing with user-generated trajectory data, *Mobile Data Management (MDM) : 16th IEEE international conference*, p. 14–23.
6. **Edvinas Greičius, Saulius Minkevičius, Leonidas Sakalauskas**, Maintenance of an ATM network: modeling of cash flows, analysis of cash demand and customer habits, *Advances in computer science : proceedings of the 15th international conference on evolutionary computing (EC '15) and proceedings of the 6th European conference of computer science (ECCS '15)*, p. 79–84.
7. **Edvinas Greičius, Saulius Minkevičius**, On the idle time model in computer networks, *ICCGI 2015 : The 10th international multi-conference on computing in the global information technology*, p. 60–64.

Raimondas Jasevičius, see [1].

8. **Kristina Lapin, Andrius Eimantas Vosylius**, Usability of Educational websites for Tablet Computers, *Proceedings of the International Conference on Multimedia, Interaction, Design and Innovation (MIDI 2015)(2)*, p. 1–9.

Saulius Minkevičius, see [7].

Saulius Minkevičius, see [6].

9. **Antanas Mitašiūnas, Leonids Novickis, Viktorija Ponomarenko**, Towards knowledge and information technology transfer concept and its validation, *Procedia Computer Science*, 77, p. 48–55.

²Thomson Reuters Web of Knowledge, Web of Science, Conference Proceedings Citation Index ([online search](#))

10. A. V. Papp, L. G. Romanova, A. V. Snegursky, **Jelena Tamulienė**, V. S. Vukstich, Fragmentation of tryptophan molecule by low-energy electron-impact, *Journal of Physics: Conference Series*, 635(3), #032048.

Jelena Tamulienė, see [10].

ARTICLES IN GROUP A JOURNALS³

1. Aistė Abazoriūtė, **Arvydas Kregždė**, Relationship between Lithuanian Sovereign Credit Risk and Equity Market, *Business, Management and Education*, 13(2), p. 292–307.
2. Ieva Marija Andrulytė, **Emilija Bernackaitė**, Dominyka Kievinaitė, **Jonas Šiaulys**, A Lundberg-type inequality for an inhomogeneous renewal risk model, *Modern Stochastics: Theory and Applications*, 2(2), p. 173–184.
3. **Vilijandas Bagdonavičius**, Mikhail Nikulin, Aisha Zerbet, On outliers detection for location-scale and shape-scale families, *Записки Научных Семинаров ПОМИ*, 442, p. 5–17.
4. **Romas Baronas**, **Raimondas Jasevičius**, Rimantas Kačianauskas, Remigijus Šimkus, Numerical modeling of bacterium-surface interaction by applying DEM, *Procedia Engineering. New paradigm of particle science and technology: proceedings of the 7th World Congress on Particle Technology (WCPT7)*, 102, p. 1408–1414.
5. **Romas Baronas**, **Linas Litvinas**, Difuzijos modulio įtaka dviejų substratų koncentracijų atpažinimui dirbtiniais neuroniniais tinklais, *Computational Science and Techniques*, p. 445–453.
6. **Romas Baronas**, **Liutauras Ričkus**, Biojutiklio su alosterinio fermento sluoksniu kompiuterinis modeliavimas, *Informacijos Mokslai*, 73, p. 105–111.

Emilija Bernackaitė, see [2].

7. **Jeremy Daniel Besson**, **Adomas Birštunas**, **Antanas Mitašiūnas**, Arūnas Stočkus, SignaTM – towards electronic document cross-border interoperability, *Applied Computer Systems*, 17, p. 46–52.
8. **Jeremy Daniel Besson**, Michael Boronowsky, **Antanas Mitašiūnas**, Tanja Woronowicz, Validation of InnoSPICE for technology transfer, *Applied Computer Systems*, 17, p. 12–20.
9. **Jeremy Daniel Besson**, **Antanas Mitašiūnas**, **Saulius Ragaišis**, Export process capability assessment model, *Applied Computer Systems*, 17, p. 60–67.

Adomas Birštunas, see [7].

10. **Mindaugas Bloznelis**, Michal Karonski, Random intersection graph process, *Internet Mathematics*, 11(4-5), p. 385–402.
11. Vygantas Butkus, **Laurynas Naruševičius**, Lietuvos bankų sistemos makroekonominis testavimas nepalankiausiomis sąlygomis: mokumo vertinimas, *Pinigų Studijos*, 17-19(1), p. 74–92.
12. Andrey Bykovskij, **Antanas Mitašiūnas**, Lithuanian national platform of electronic documents: towards cross-border interoperability, *Echallenges E-2015 : Conference Proceedings*, p. 1–10.
13. **Vytautas Čyras**, Friedrich Lachmayer, **Kristina Lapin**, Picture-text cooperation: lettering in legal visualization, *Proceedings of the 18th International Legal Informatics Symposium IRIS 2015, 26–28 February 2015, Salzburg*, p. 447–454.

³Categories S3, S4, P1b, P1c, P1d and P1e in VU publications database.

14. Vytautas Čyras, Friedrich Lachmayer, Erich Schweighofer, Visualization as a tertium comparationis within multilingual scientific communities, *MWAIL2015 : ICAIL Multilingual Workshop on AI & Law Research, June 8, 2015, San Diego, CA : proceedings*, p. 101–114.
15. Vytautas Čyras, Friedrich Lachmayer, Logic oriented methods for structuring in the context of lawmaking, *Logic in the theory and practice of lawmaking, Cham: Springer International Publishing*, 2, p. 459–478.
16. Vytautas Čyras, Friedrich Lachmayer, Towards multidimensional rule visualizations, *Problems of normativity, rules and rule-following, Switzerland : Springer International Publishing*, 111, p. 445–455.
17. Valentina Dagienė, Eimantas Pėlikis, Gabrielė Stupurienė, Introducing computational thinking through a contest on informatics: problem-solving and gender issues, *Informacijos Mokslai*, p. 55–63.
18. Valentina Dagienė, Eimantas Pėlikis, Gabrielė Stupurienė, Informatinio mąstymo ugdymo uždutys: merginų ir vaikinų sprendimų analizė, *Acta Paedagogica Vilensia*, 35, p. 53–66.
19. Valentina Dagienė, Gabrielė Stupurienė, Elena Sutkutė, Informatikos konkurso grafų uždavinių analizė, *Informacijos Mokslai*, 72, p. 118–129.
20. Sigitas Dapkūnas, Dainis Klimas, Išmaniųjų įrenginių programų saugumo auditas, *Informacinės technologijos 2015 : XX tarpuniversitetinė magistrantų ir doktorantų konferencija : Konferencijos pranešimų medžiaga*, p. 45–48.
21. Ramūnas Garunkštis, Raivydas Šimėnas, On the Speiser equivalent for the Riemann hypothesis, *European Journal of Mathematics*, 1(2), p. 337–350.
22. Vilma Gesevičienė, Edmundas Mazėtis, Tikslųjų mokslų dalykų pasirinkimo bendrojo ugdymo mokykloje motyvai, *Acta Paedagogica Vilnensia*, 35, p. 9–21.
23. Edvinas Greičius, Saulius Minkevičius, On the investigation of component-based reliability model in computer networks, *International journal of mathematical models and methods in applied sciences*, 9, p. 154–158.
24. Andrius Grigutis, Agneška Korvel, Jonas Šiaulys, Ruin probability in the three-seasonal discrete-time risk model, *Modern Stochastics: Theory and Applications*, 2(4), p. 421–441.
25. Vidutė Gurevičienė, Karolis Petrauskas, Julija Razumienė, Ieva Šakinytė, Amperometric Urea Sensor. Enzyme Immobilization into Adjustable Membrane and Mathematical Characterization of the Biosensor, *Biodevices 2015 : 8th international conference on biomedical electronics and devices*, p. 144–149.
26. Isao Ishida, Virmantas Kvedaras, Modeling Autoregressive Processes with Moving-Quantiles-Implied Nonlinearity, 3(1), p. 2 – 54.
Feliksas Ivanauskas, see [30].
27. Ugnė Jančauskaitė, Olga Štikonienė, Modelling immune system dynamics: the interaction of HIV and recombinant virus, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society. Ser. A*, 56, p. 30–35.
28. Paulius Jarmalavičius, Saulius Ragaišis, Scrum metodikos užtikrinimo gebėjimo vertinimas pagal CMMI-DEV, *Informacijos Mokslai*, 73, p. 26–33.
Raimondas Jasevičius, see [4].
29. Algimantas Juozapavičius, Tadas Meškauskas, Andrius Vytautas Misiukas Misiūnas, On the implementation and improvement of automatic EEG spike detection algorithm, *Lietuvos Matematikos Rinkinys*, 56(ser.A), p. 60–65.

30. **Simonas Kareiva**, Živilė Stankevičiūtė, Aldona Beganskienė, Algirdas Selskis, **Feliksas Ivanauskas**, Vytautas Klimavičius, Vytautas Balevičius, Simas Šakirzanovas, Aivaras Kareiva, Reproducibility of sol-gel synthesis method: case of calcium hydroxyapatite, *Chemistry and chemical technology 2015 : international conference of Lithuanian Chemical Society, dedicated to Professor Vitas Daukšas on his 80th birth anniversary, Vilnius, Lithuania, January 23, 2015 : programme and proceedings of the international conference*, p. 95–97.
31. **Romualdas Kašuba**, Regina Rudalevičienė, Ar galima dviem žodžiais pakalbėti apie tris dalykus?, *Lietuvos Matematikos Rinkinys. Lietuvos matematikų draugijos darbai. Ser. B*, **56**, p. 63–69.
32. **Romualdas Kašuba**, Human psychology, challenges and responses, *The Proceedings of the 12th International Congress on Mathematical Education : Intellectual and attitudinal challenges*, p. 1–5.
33. **Romualdas Kašuba**, The 25th Baltic Way Team Contest 6-10 November 2014, Vilnius, Lithuania, *Mathematics Competitions*, **28**(1), p. 34–41.
34. **Pranas Katauskis**, Justas Sakalauskas, Numerical study of monomer-monomer reactions on composite catalysts: well-mixed species model, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society. Ser.A*, **56**, p. 42–47.
35. **Vytautas Kazakevičius**, Feller chains and random functions, *Lietuvos Matematikos Rinkinys. LMD Darbai. Ser. A*, **56**, p. 48–53.
36. Jevgenijus Kirjackis, **Edmundas Mazėtis**, Grigorijus Melničenko, Apie vieno brėžimo uždavinio neišsprendžiamumą, *Lietuvos matematikos rinkinys : Lietuvos matematikų draugijos darbai. Ser. B*, **56**(ser.B), p. 70–74.
- Agneška Korvel**, see [24].
37. **Arvydas Kregždė**, **Gediminas Murauskas**, Analysing sovereign Credit Default Swaps of Baltic countries, *Business: Theory and Practice*, p. 121–131.
38. **Arvydas Kregždė**, **Gediminas Murauskas**, Impact of sovereign credit risk on the Lithuanian interest rate on loans, *Ekonomika*(94(2)), p. 113–128.
- Arvydas Kregždė**, see [1].
39. **Ričardas Juozas Kudžma**, Vitalija Rukaitė, Funkcijos portreto brėžimo semiotinė analizė, *Lietuvos Matematikos Rinkinys. LMD Darbai. Ser. B*, **56**, p. 75–79.
- Virmantas Kvedaras**, see [26].
- Kristina Lapin**, see [13].
- Linas Litvinas**, see [5].
40. **Eugenijus Manstavičius**, **Robertas Petuchovas**, Permutations without long or short cycles, *Electronic Notes in Discrete Mathematics*, **49**, p. 153–158.
41. **Jurgita Markevičiūtė**, Invariance Principle Under Self -Normalization for AR(1) Process, *Proceedings of the 19th European Young Statisticians Meeting*, p. 92–97.
- Edmundas Mazėtis**, see [22].
- Edmundas Mazėtis**, see [36].
- Tadas Meškauskas**, see [29].
42. **Asta Mincevič**, **Dmitrij Mochov**, On the discrete universality of the periodic Hurwitz zeta-function, *10*(18), p. 81–89.

- Saulius Minkevičius, see [23].
43. Oleg Mirzianov, **Antanas Mitašiūnas**, Continuous Learning Process Assessment Model, *SPETP 2015 : 1st International Workshop on Software Process Education, Training and Professionalism, Gothenburg, Sweden, June 15, 2015*, p. 55–62.
- Andrius Vytautas Misiukas Misiūnas**, see [29].
44. **Antanas Mitašiūnas**, Leonids Novickis, eINTERASIA project: IT transfer concept for adaptation and dissemination of innovative European research results in Central Asian countries, *Applied Computer Systems*, 17, p. 7–11.
- Antanas Mitašiūnas**, see [7].
- Antanas Mitašiūnas**, see [8].
- Antanas Mitašiūnas**, see [9].
- Antanas Mitašiūnas**, see [12].
- Antanas Mitašiūnas**, see [43].
- Dmitrij Mochov**, see [42].
- Gediminas Murauskas**, see [37].
- Gediminas Murauskas**, see [38].
- Laurynas Naruševičius**, see [11].
45. **Jurij Novickij**, **Artūras Štikonas**, On the equivalence of discrete Sturm–Liouville problem with nonlocal boundary conditions to the algebraic eigenvalue problem, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society. Ser.A*, 56(A), p. 66–71.
46. **Gailė Paukštaitė**, **Artūras Štikonas**, Nullity of the second order discrete problem with nonlocal multipoint boundary conditions, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society. Ser.A*, 56(A), p. 72–77.
47. **Vygantas Paulauskas**, **Marijus Vaičiulis**, On several generalizations of classical tail index estimators, *Current topics on risk analysis: ICRA6 and RISK 2015 conference*, p. 597–604.
48. **Stasys Peldžius**, **Saulius Ragaišis**, Programų kūrimo procesų vertinimas naudojant keletą procesų vertinimo modelių, *Informacijos Mokslai*, p. 84–92.
- Karolis Petrauskas**, see [25].
- Robertas Petuchovas**, see [40].
- Saulius Ragaišis**, see [9].
- Saulius Ragaišis**, see [28].
- Saulius Ragaišis**, see [48].
49. **Agnė Reklaitė**, Globalisation Effect Measure Via Hierarchical Dynamic Factor Modelling, *10(3)*, p. 139–149.
50. **Šarūnas Repšys**, **Vladas Skakauskas**, On the anticrowding population dynamics taking into account a discrete set of offspring, *Lietuvos Matematikos Rinkinys*, 56(ser.A), p. 84–89.
- Liutauras Ričkus**, see [6].
51. **Audronė Rimkevičienė**, A discrete limit theorem for the periodic Hurwitz zeta-function, *Lietuvos matematikos rinkinys : Lietuvos matematikų draugijos darbai. Serija A*, 56, p. 90–94.
- Jonas Šiaulys**, see [2].

Jonas Šiaulys, see [24].

Raivydas Šimėnas, see [21].

Vladas Skakauskas, see [50].

52. Agnė Skučaitė, Artūras Štikonas, Zeroes and poles of a characteristic function for Sturm–Liouville problem with nonlocal integral condition, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society, Ser.A*, 56(A), p. 95–100.

Artūras Štikonas, see [45].

Artūras Štikonas, see [46].

Artūras Štikonas, see [52].

Olga Štikonienė, see [27].

53. Marijus Vaičiulis, Local maximum based tail index estimator, *Current topics on risk analysis: ICRA6 and RISK 2015 conference*, p. 803–809.

Marijus Vaičiulis, see [47].

ARTICLES IN GROUP B JOURNALS⁴

1. Romas Baronas, Žilvinas Ledas, Remigijus Šimkus, Švytinčių bakterijų populiacijos vaizdų apdorojimo ir struktūros analizės įrankiai, *Kompiuterininkų Dienos - 2015*, p. 76–78.
2. Genė Biziulevičienė, Židrina Pabarškaitė, Šarūnas Raudys, Vytautas Valaitis, A price we pay for inexact dimensionality reduction, *Bioinformatics and Biomedical Engineering : Third International Conference, IWBBIO 2015, Granada, Spain, April 15-17, 2015. Proceedings, Part II. Ser.: Lecture Notes in Computer Science*, 9044, p. 289–300.
3. Vytautas Čyras, Harald Hoffmann, Friedrich Lachmayer, Contexts of justice and the paradigm change to eProceedings, *Jusletter IT*, p. 1–5.
4. Vytautas Čyras, Friedrich Lachmayer, Kristina Lapin, Picture-text cooperation: lettering in legal visualization, *Jusletter IT*, p. 1–10.
5. Vilma Gesevičienė, Edmundas Mazėtis, Choosing exact science subjects in Lithuanian secondary school, *Journal of Modern Education Review*, 5(6), p. 605–615.
6. Kęstutis Janulis, Mixed joint universality of Dirichlet L-functions and Hurwitz type zeta-functions, *Алгебра, теория чисел и дискретная геометрия: современные проблемы и приложения: материалы 13 международной конференции, посвященной 85-летию со дня рождения профессора Сергея Сергеевича Рышкова, Тула, 25-30 мая 2015 г.*, p. 210–213.
7. Modestas Kažinauskas, Kristina Lapin, Paieškos rezultatų vizualizavimas ir gestų sąveika mobiliuose įrenginiuose, *Informacinės technologijos 2015 : 20-osios tarpuniversitetinės magistrantų ir doktorantų konferencijos „Informacinė visuomenė ir universitetinės studijos“ (IVUS 2015) pranešimų medžiaga*, p. 61–64.
8. Kristina Lapin, Andrius Eimantas Vosylius, Mobilių edukacinių svetainių panaudojamumo euristikos, *Informacinės technologijos 2015 : 20-osios tarpuniversitetinės magistrantų ir doktorantų konferencijos „Informacinė visuomenė ir universitetinės studijos“ (IVUS 2015) pranešimų medžiaga*, p. 57–60.

Kristina Lapin, see [4].

⁴Categories S5, P1f, P2a, P2b, P2c in VU publications database.

Kristina Lapin, see [7].

9. **Antanas Laurinčikas**, Discrete universality of zeta and L-functions, *Алгебра, теория чисел и дискретная геометрия: современные проблемы и приложения: материалы 13 международной конференции, посвященной 85-летию со дня рождения профессора Сергея Сергеевича Рышкова, Тула, 25-30 мая 2015 г.*, p. 32–35.

Žilvinas Ledas, see [1].

10. **Linas Litvinas**, Dviejų substratų koncentracijų nustatymas naudojant biojutiklius ir dirbtinius neuroninius tinklus, *Informacinės technologijos 2015 : XX tarpuniversitetinė magistrantų ir doktorantų konferencija : Konferencijos pranešimų medžiaga*, p. 105–108.

Edmundas Mazėtis, see [5].

11. **Laimonas Meška**, Modification of the universality inequality, *Алгебра, теория чисел и дискретная геометрия: современные проблемы и приложения: материалы 13 международной конференции, посвященной 85-летию со дня рождения профессора Сергея Сергеевича Рышкова, Тула, 25-30 мая 2015 г.*, p. 236–238.

Šarūnas Raudys, see [2].

12. **Aldona Skučaitė**, Retirement pensions in Lithuania: 25 years and still in transit?, *Economía Española Y Protección Social*, p. 37–70.

Vytautas Valaitis, see [2].

ARTICLES ON THE HISTORY OF MATHEMATICS

1. **Eugenijus Manstavičius**, Vidmantas Pekarskas, Mifodijus Sapagovas, kn.: Matematika Lietuvos aukštosiose mokyklose 1921-1944 metais. Aut. Jonas Kubilius, *Vinius : Vilniaus Universiteto Leidykla*, p. 175–186.

TEXTBOOKS

1. **Vydas Čekanavičius**, **Gediminas Murauskas**, Statistika ir jos taikymai. I knyga (STAT-I, 2016) : (interaktyvus skaitmeninis vadovėlis), *Vilnius : TEV, 2015*, p. 240.

BOOKS AND LECTURE NOTES

1. Kęstutis Kubilius, **Eugenijus Manstavičius**, Vidmantas Pekarskas, Mifodijus Sapagovas (redaktoriai sudarytojai), Matematika Lietuvos aukštosiose mokyklose 1921-1944 metais. Jonas Kubilius (aut.), *Vilnius : Vilniaus Universiteto Leidykla*, p. 184.

CONFERENCE REPORTS

1. **Mindaugas Bloznelis**, Modeling evolving affiliation networks via random intersection graph processes, *The 17th International Conference on Random Structures and Algorithms, Carnegie Mellon University in Pittsburgh, PA, USA, July 27-31, 2015*.

2. **Mindaugas Bloznelis**, Random intersection graphs, *Yu. V. Linnik Centennial Conference: Analytical methods in number theory, probability theory and mathematical statistics*, Euler International Mathematical Institute, St. Petersburg, Russia, September 14-18, 2015.
3. **Mindaugas Bloznelis**, Degree-degree distribution in a power law random intersection graph with clustering, *12th Workshop on Algorithms and Models for the Web-graph (WAW2015)*, EU-RANDOM, Eindhoven, Netherlands, December 10-11, 2015.
4. Michel Chipot, **Alicija Eismontaitė**, **Konstantinas Pileckas**, **Mindaugas Skujus**, “Asymptotic Problems, Elliptic and Parabolic Issues”, June 1-5, Vilnius University, 2015.
5. Regimantas Čiupaila, Živilė Jokšienė, Mifodijus Sapagovas, **Olga Štikonienė**, On the eigenvalue problem for elliptic operator with variable coefficients and integral boundary conditions, *Mathematical Modelling and Analysis : 20th International Conference “Mathematical Modelling and Analysis” (MMA2015) : May 26-29 2015, Sigulda, Latvia : Abstracts*, p. 79–79.
6. **Paulius Drungilas**, On the degree of compositum of two number fields, *The Geometry, Algebra and Analysis of Algebraic Numbers, Banff, Canada, October 4-9, 2015: abstracts*, p. 4–5.
7. **Paulius Drungilas**, On the degree of sum of two algebraic numbers, “29th Journées Arithmétiques”, Debrecen, Hungary, July 6-10 : abstracts, p. 37.
8. **Paulius Drungilas**, **Romualdas Kašuba**, About the new specifications of the Kangaroo competition in Lithuania, *Teaching mathematics: retrospective and perspectives: 16th international conference: abstracts, May 7-9, 2015, Palanga, Lithuania*, p. 16.
9. **Artūras Dubickas**, Counting dominant and degenerate polynomials, *The geometry, algebra and analysis of algebraic numbers, Banff, Canada, October 4-9, 2015 : abstracts*, p. 5.
10. **Artūras Dubickas**, Reducible polynomials of bounded height, *Contemporary problems in number theory, March 5, 2015 12:45, Moscow, Steklov Mathematical Institute*, p. 1.
11. Virginija Garbaliuskienė, **Antanas Laurinčikas**, Distribution theorems for twisted L-functions of elliptic curves, *Mathematical Modelling and Analysis (MMA2015) : 20th international conference, May 26-29, 2015, Sigulda, Latvia : abstracts*, p. 25.
12. **Ramūnas Garunkštis**, **Antanas Laurinčikas**, Zeta functions. Universality, zeros, and moments, *Mathematical Modelling and Analysis (MMA2015) : 20th international conference, May 26-29, 2015, Sigulda, Latvia : abstracts*, p. 26.
13. Vilma Gesevičienė, **Edmundas Mazėtis**, Rewrite of LUES young mathematicians Olympiad, *Teaching mathematics: retrospective and perspectives : 16th international conference : abstracts*, p. 17–18.
14. **Andrius Grigutis**, The size of the Selberg zeta-function at places symmetric with respect to the line $1/2$, *Mathematical Modelling and Analysis (MMA2015) : 20th international conference, May 26-29, 2015, Sigulda, Latvia : abstracts*, p. 29.
15. **Feliksas Ivanauskas**, Aivaras Kareiva, **Simonas Kareiva**, Simas Šakirzanovas, Algirdas Selskis, Extrapolation of 3D Data from SEM Micrographs: Development of 3D Reconstruction Technique and Verification on Sol-Gel Derived Calcium Hydroxyapatite Samples, *COST Action MP1202: Rational design of hybrid organic-inorganic interfaces: the next step toward advanced functional materials. Scientific Workshop on Nanostructured Hybrid Materials II: reinforced 3D structures, smart composites, self-healing 22-24 April 2015, Greece*, p. 25.
16. **Feliksas Ivanauskas**, Aivaras Kareiva, **Simonas Kareiva**, Simas Šakirzanovas, Algirdas Selskis, 3D duomenų ekstrapoliacija iš skenuojančios elektroninės mikroskopijos (SEM) nuotraukų, *Penktoji jaunųjų mokslininkų konferencija „Fizinių ir technologijos mokslų tarpdalykiniai tyrimai“ : pranešimų santraukos*, p. 19-20.

17. **Eduardas Kutka**, SESAME Kick-off, Brussels, Belgium, 2015.
18. **Eduardas Kutka**, Conference “ISC High Performance 2015”, Frankfurt, Germany, 2015.
19. **Antanas Laurinčikas**, A joint discrete universality of Dirichlet L -functions, *Conference in memory of A. A. Karatsuba on number theory and applications, 2015 January 30, 2015 16:00, Moscow, Steklov Mathematical Institute of the Russian Academy of Sciences*, p. 1.
20. **Remigijus Leipus**, Closure property of randomly weighted sums, *The workshop on new directions in risk theory, Nanjing, October 31, 2015 : abstracts*, p. 3.
21. **Eugenijus Manstavičius, E.M.**, Additive functions on permutations, Conf. “Connections in Discrete Mathematics”, Simon Fraser University, Canada, June 15-19, 2015.
22. **Eugenijus Manstavičius**, Probabilities related to the cyclic structure of random permutations, International conference dedicated to J.V. Linnik’s centennial jubilee, Sankt-Petersburg, September 14–18, 2015.
23. **Eugenijus Manstavičius, Robertas Petuchovas**, Permutations without long or short cycles, Conf. „Eurocomb15”, Bergen, August 31 – September 04, 2015.
24. **Jurgita Markevičiūtė**, AR(1) processes and epidemic change tests, *38th Conference on Stochastic processes and their Applications 2015 : book of abstracts*, p. 142.
25. **Dmitrij Mochov**, On the discrete universality of the periodic Hurwitz zeta-function, *Mathematical Modelling and Analysis (MMA2015) : 20th international conference, May 26-29, 2015, Sigulda, Latvia : abstracts*, p. 59.
26. **Jurij Novickij, Agnė Skučaitė, Artūras Štikonas**, Spectrum analysis of the weighted finite difference scheme for the wave equation with integral boundary conditions, *European conference on numerical mathematics and advanced applications, Ankara, 14-18 September 2015 : book of abstracts*, p. 84.
27. **Jurij Novickij, Artūras Štikonas**, Spectrum analysis of the weighted finite difference scheme for the wave equation with integral boundary conditions, *Mathematical modelling and analysis: 20th international conference : abstracts*, p. 61.
28. **Gailė Paukštaitė, Artūras Štikonas**, Generalized Green’s functions for m-th order discrete non-local problems, *Mathematical modelling and analysis: 20th international conference : abstracts*, p. 67.
29. **Andrius Petrulis, Rimantas Vaicekauskas, Pranciškus Vitta, Artūras Žukauskas**, Išmanaus kitakūnio apšvietimo tyrimai ir taikymai Lietuvoje, *41-oji Lietuvos nacionalinė fizikos konferencija : programa ir pranešimų tezės, Vilnius, 2015 m. birželio 17-19 d.*, p. 199.
30. **Svajūnas Sajavičius**, A study of radial basis function method for elliptic PDE with multipoint nonlocal boundary condition, *ICIAM 2015: 8th international congress on industrial and applied mathematics : program* , p. 326.
31. **Mifodijus Sapagovas, Artūras Štikonas, Olga Štikonienė**, On the stability of some three-layer difference schemes for two-dimensional pseudo-parabolic equation with integral boundary conditions, *Mathematical modelling and analysis: 20th international conference : abstracts*, p. 78.
32. **Mifodijus Sapagovas, Artūras Štikonas, Olga Štikonienė**, ADI method for two-dimensional pseudo-parabolic equation with integral boundary conditions, *Asymptotic Problems, Elliptic and Parabolic Issues*, p. 70.
33. **Mifodijus Sapagovas, Artūras Štikonas, Olga Štikonienė**, ADI method for two-dimensional pseudo-parabolic equation with integral boundary conditions, *26th Biennial Conference On Numerical Analysis*, p. 56.

34. **Jonas Šiaulyš**, Inhomogeneity problems in risk theory, *The workshop on new directions in risk theory, Nanjing, October 31, 2015 : abstracts*, p. 6.
35. Agnė Skučaitė, **Artūras Štikonas**, Eigenspectrum analysis of the Sturm–Liouville problem with nonlocal integral boundary condition, *European conference on numerical mathematics and advanced applications, Ankara, 14-18 September 2015 : book of abstracts*, p. 99.
36. Agnė Skučaitė, **Artūras Štikonas**, Investigation of a spectrum for Sturm–Liouville problem with partial integral boundary condition, *Mathematical modelling and analysis: 20th international conference : abstracts*, p. 75.

RESEARCH GRANTS AND AWARDS

1. **Giedrius Alkauskas**, MIP-072/2015: Structural functional equations: projective flows, transfer operators, Minkowski question mark function, and modular forms.
2. **Paulius Drungilas**, Algebrainių skaičių sekos ir jų aukščiai. LMT Mokslininkų iniciatyva vykdomų mokslinių tyrimų projektas. 2013–2015.
3. **Ramūnas Garunkštis**, Pirmos ir antros eilės dzeta funkcijų savybės. LMT Mokslininkų iniciatyva vykdomų mokslinių tyrimų projektas. 2014–2016.
4. **Eugenijus Manstavičius**, Kubilius prize of the Lithuanian Academy of Sciences.
5. **Antanas Mitašiūnas**, E-documents for Europe. Research Council of Lithuania. No. TEC-03/2015. 2015–2016.
6. **Aistis Raudys**, Modeling investment portfolio using quantum chaos. Research Council of Lithuania. No. MIP-100/2015. 2015.
7. **Šarūnas Raudys**, High-dimensionality and small data size problems in classification of biomedical and financial data. Research Council of Lithuania. No. MIP-057/2013. 2013–2015.
8. **Gintaras Skersys**, Services Controlled through Spoken Lithuanian Language (LIEPA) (No. VP2-3.1-IVPK-12-K-01-001) funded by the European Social Fund. (Head Prof. L. Telksnys - Vilnius University Institute of Mathematics and Informatics). Dr. G. Skersys, February 15, 2013 – August 15, 2015, D. Lebedenko, September 1, 2014 – June 31, 2015.
9. **Rimantas Vaicekaskas**, Colour Restoration In Cultural Heritage Objects Using Solid-State Lighting. Research Council of Lithuania. No. MIP-096/2015. 2015–2017.

SCIENTIFIC CONTACTS

PARTICIPATION IN INTERNATIONAL PROJECTS

1. **Algimantas Juozapavičius**, CMSSW-DB, VU and CERN.
2. **Eduardas Kutka**, Horizontas 2020, SESAME NET.
3. **Konstantinas Pileckas**, asymptotic Problems and Applications, Lithuanian-Swiss programme Research and Development, Project No CH-3-ŠMM-01/01. 2012–2016.

RESEARCH VISITS

1. **Giedrius Alkauskas**, Clausthal University of Technology, Germany, February 21 – March 5, 2015.
2. **Giedrius Alkauskas**, Sixteenth International Conference on Functional Equations and Inequalities (16th ICFEI), Będlewo, Poland, May 16-23, 2015.
3. **Giedrius Alkauskas**, Diophantine Approximation and Related Topic Aarhus, Danmark, July 10-20, 2015.
4. **Mindaugas Bloznelis**, Lectures “Topics in Random Graphs” in the 36th Finnish Summer School on Probability Theory and Statistics, College, Finland, June 1-5, 2015.
5. **Vytautas Čyras**, International Legal Informatics Symposium IRIS 2015, Salzburg, February 26-28, 2015.
6. **Artūras Dubickas**, Moscow State University, March, 2015.
7. **Rimantas Eidukevičius**, Aplinkos ir žemės ūkio vystymo fondas, Cameroon, 2015.
8. **Rimantas Eidukevičius**, University of Padova, 2015.
9. **Kristina Kaulakytė**, University of Zurich, Switzerland, January 1 – June 30, 2015.
10. **Kristina Kaulakytė**, “Mathematical Fluid Mechanics: Old Problems, New Trends”, Bedlewo, Poland, August 31 – September 4, 2015.
11. **Remigijus Leipus**, “The Workshop on New Directions in Risk Theory”, Nanjing Audit University, Nanjing (China), October 31, 2015.
12. **Remigijus Leipus**, “Workshop in Risk Theory”, Suzhou University of Science and Technology, Suzhou (China), November 2, 2015.
13. **Remigijus Leipus**, “Workshop on (Long Memory and Nonstationary) Time Series”, Goethe University Frankfurt, Frankfurt (Germany), May 29–30, 2015.
14. **Remigijus Leipus**, European Mathematical Society meeting, Institut Henri Poincaré, Paris, October 22, 2015.
15. **Martynas Manstavičius**, Dortmund University, January 18–25, 2015.
16. **Vygantas Paulauskas**, Eilate, Izrael, May 3–8, 2015.
17. **Vygantas Paulauskas**, “International Conference on Risk Analysis 6”, Barselona (Spain), May 25–29, 2015.
18. **Vygantas Paulauskas**, Nicolaus Copernicus University, Toruń, June 15–21, 2015.
19. **Konstantinas Pileckas**, International Conference “Global Dynamics in Evolutionary PDEs”, Warsaw, Poland, April 17-18, 2015.
20. **Konstantinas Pileckas**, International Conference “Workshop on Navier-Stokes Equations”, Darmstadt, Germany, April 22-23, 2015.
21. **Konstantinas Pileckas**, International Conference “Mathematical Aspects of Hydrodynamics”, Mathematical Research Institute of Oberwolfach, Germany, August 10-14, 2015.
22. **Konstantinas Pileckas**, “Mathematical Fluid Mechanics: Old Problems, New Trends”, Bedlewo, Poland, August 31 – September 4, 2015.
23. **Alfredas Račkauskas**, Lectures for PhD students, Rouen university, France, June, 2015.
24. **Alfredas Račkauskas**, Participation PhD committee, Rouen university, France, December, 2015.

25. **Alfредas Račkauskas**, London university, UK, December, 2015.
26. **Jonas Šiaulys**, “The Workshop on New Directions in Risk Theory”, Nanjing Audit University, Nanjing (China), October 31, 2015.
27. **Jonas Šiaulys**, “Workshop in Risk Theory”, Suzhou University of Science and Technology, Suzhou (China), November 2, 2015.
28. **Mindaugas Skujus**, “Mathematical Fluid Mechanics: Old Problems, New Trends”, Bedlewo, Poland, August 31 – September 4, 2015.
29. **Olga Štikonienė**, “Mathematical Fluid Mechanics: Old Problems, New Trends”, Bedlewo, Poland, August 31 – September 4, 2015.
30. **Vytas Zacharovas**, St. Petersburg, Russia, September 13-19, 2015.
31. **Vytas Zacharovas**, Institute of Statistical Science, Academia Sinica, Taiwan, 2015 December 19 – 2016 January 24.

FOREIGN VISITORS

1. Michel Chipot, University of Zurich, Switzerland, August, 2015.
2. Hi Jun Choe, Yonsei University, South Korea, October, 2015.
3. Raul Kangro, University of Tartu, May, 2015.
4. Mikhail Korobkov, Novosibirsk State University, Russia, January, 2015.
5. Yulija Mishura, Taras Shevchenko National University of Kyiv, Kyiv (Ukraine), January, 2015.
6. Mark Podolskij, Archus university, Denmark, 2015.
7. Remigio Russo, Second University of Naples, Italy, January, 2015.
8. Min Sha, University of New South Wales, Sydney, Australia, April 27, 2015.
9. Teerapat Srichan, Wurzburg University, Germany, May 29, 2015.
10. Joern Steuding, Wurzburg University, Germany, December 30, 2015.
11. Charles Suquet, Lilly university, France, February 3, 2015.

NAME INDEX

- A. Adamonis, 13
G. Alkauskas, 9, 16, 31, 32
A. Ambrazevičius, 6, 16
J. Andrikonis, 1
A. Apynis, 5
V. Ašeris, 13
R. Astrauskas, 4
J. Atstopenė, 11
- V. Bagdonavičius, 10, 23
G. Bakštys, 8
G. Bareikis, 9, 16
D. Baronas, 1
R. Baronas, 13, 16, 22, 23, 27
M. Beniušė, 3
E. Bernackaitė, 8, 16, 23
J. D. Besson, 10, 23
A. Birštunas, 1, 23
M. Bloznelis, 9, 22, 23, 28, 29, 32
A. Brilingaitė, 3
L. Bukauskas, 3
L. Būtėnas, 3
- V. Čeikutė, 4, 22
V. Čekanavičius, 7, 16, 17, 28
D. Celov, 7
D. Čiukšys, 14
A. Čivilis, 4
V. Čyras, 14, 17, 23, 24, 27, 32
- V. Dagienė, 5, 17, 24
J. Damarackas, 8, 17
S. Dapkūnas, 13, 24
J. V. Daugmaudis, 4
V. Daukšas, 6
V. Dičiūnas, 1
L. Dindienė, 7, 17
A. Domarkas, 6
P. Drungilas, 11, 17, 29, 31
A. Dubickas, 11, 16, 17, 29, 32
- R. Eidukevičius, 10, 17, 18, 32
A. Eismontaitė, 6, 29
A. Eljio, 5, 16, 17
- E. Gaigalas, 5
R. Garunkštis, 11, 24, 29, 31
V. Golubevas, 13
S. Gražulis, 9, 18
E. Greičius, 14, 22, 24
A. Grigutis, 11, 18, 24, 29
I. Grinis, 9
- E. Ignatavičiūtė, 8, 18
J. Ignatavičiūtė, 3
F. Ivanauskas, 3, 18, 24, 25, 29
- V. Jančauskas, 1
A. Janeliūnas, 1
J. Jankauskas, 11, 16–18
K. Janulis, 11, 27
J. Jarutis, 7
R. Jasevičius, 13, 16, 18, 22–24
H. Jasiūnas, 11
A. Javtokas, 11
T. Jevsikova, 5
A. Juozapavičius, 3, 24, 31
A. Juozulynas, 8
V. Jusevičius, 13
- A. Kačėnas, 11
J. Kalpokas, 11, 18
K. Karčiauskas, 3, 18, 19
S. Kareiva, 3, 18, 19, 25, 29
E. Karikovas, 11
V. Karpavičius, 13
P. Kasparaitis, 3
R. Kašuba, 5, 25, 29
P. Katauskis, 6, 18, 19, 25
K. Kaulakytė, 6, 19, 32
A. Kavaliauskas, 6
V. Kazakevičius, 10, 25
L. Kaziulytė, 11
M. Kepalas, 9
N. Klovienė, 6
A. Korvel, 8, 18, 19, 24, 25
R. Krasauskas, 3, 19
A. Kregždė, 6, 18, 19, 23, 25
D. Krunglevičius, 2, 19
J. J. Kruopis, 10
R. J. Kudžma, 5, 25
E. Kutka, 3, 30, 31
V. Kvedaras, 7, 18, 19, 24, 25
R. Kybartas, 1
- K. Lapin, 13, 17, 20, 22, 23, 25, 27, 28
R. Lapinskas, 7
A. Laurinčikas, 11, 16, 17, 19, 20, 28–30
Ž. Ledas, 13, 16, 20, 27, 28
R. Leipus, 7, 17, 20, 30, 32
A. Lenkšas, 8, 20
R. Levulienė, 10
G. Lileika, 8
T. G. Lipnevičius, 3
L. Litvinas, 1, 14, 23, 25, 28

K. Liubinskas, 8
 A. Lupeikienė, 13

 A. Mačiulis, 9, 16, 20
 V. Mackevičius, 8, 18, 20
 R. Malakauskas, 3
 A. Maldeikienė, 7
 R. Malukas, 7
 V. Maniušis, 7
 E. Manstavičius, 11, 20, 25, 28, 30, 31
 M. Manstavičius, 8, 32
 R. Markauskas, 3
 J. Markevičiūtė, 7, 25, 30
 E. Mazėtis, 5, 24, 25, 27–29
 M. Meilūnas, 6
 L. Meška, 11, 28
 T. Meškauskas, 3, 24, 25
 K. Mickus, 3
 A. Mincevič, 11, 25
 S. Minkevičius, 13, 17, 20, 22, 24, 26
 A. V. M. Misiūnas, 4, 24, 26
 I. Mitašiūnaitė-Besson, 1
 A. Mitašiūnas, 1, 22, 23, 26, 31
 D. Mochov, 11, 25, 26, 30
 G. Murauskas, 7, 19, 20, 25, 26, 28

 L. Naruševičius, 7, 23, 26
 O. Navickienė, 8
 K. Navickis, 3
 S. L. Norgėla, 1
 R. Norvaiša, 7, 17, 20
 J. Novickij, 6, 26, 30
 A. Novikas, 5

 V. Okockis, 4

 E. Pakalnackienė, 13
 T. Panavas, 11
 G. Paukštaitė, 6, 20, 26, 30
 V. Paulauskas, 8, 26, 32
 S. Peldžius, 13, 26
 L. Petkevičius, 14
 K. Petrauskas, 13, 24, 26
 R. Petuchovas, 11, 25, 26, 30
 K. Pileckas, 6, 19–21, 29, 31, 32
 T. Plankis, 13
 A. E. Plikusas, 8
 V. Pozdniakov, 13
 M. Prancevičiūtė, 7
 M. Puida, 3
 D. Puplinskaitė, 8, 21
 G. Puriuškis, 6

 A. Račkauskas, 7, 21, 32, 33
 I. Radavičius, 1
 M. Radavičius, 7

 S. Ragaišis, 13, 23, 24, 26
 V. Rapševičius, 3
 A. Raudys, 1, 21, 31
 Š. Raudys, 1, 21, 27, 28, 31
 A. Reklaitė, 7, 26
 Š. Repšys, 5, 26
 L. Ričkus, 1, 14, 23, 26
 A. Rimkevičienė, 11, 26
 S. Rutkauskas, 6

 S. Sajavičius, 4, 30
 P. Šarka, 11, 18, 21
 D. Sauliūnas, 13
 L. Savičienė, 13
 G. Šemetulskis, 12
 A. Šermokas, 14
 J. Šiaulys, 8, 16–18, 21, 23, 24, 26, 27, 31, 33
 R. Šimėnas, 12, 24, 27
 J. Šiurys, 11
 V. Skakauskas, 6, 18, 19, 21, 26, 27
 G. Skersys, 1, 31
 V. Skorniakov, 10
 A. Skučaitė, 8, 28
 M. Skujus, 6, 29, 33
 J. Šliogerė, 7, 16, 21
 V. Stakėnas, 9, 21
 S. Staskevičiūtė, 10
 G. Stepanauskas, 8, 9
 V. Stepas, 11
 A. Štikonas, 6, 20, 21, 26, 27, 30, 31
 O. Štikonienė, 6, 24, 27, 29, 30, 33
 M. Stoncelis, 11
 I. Šurpicka, 14

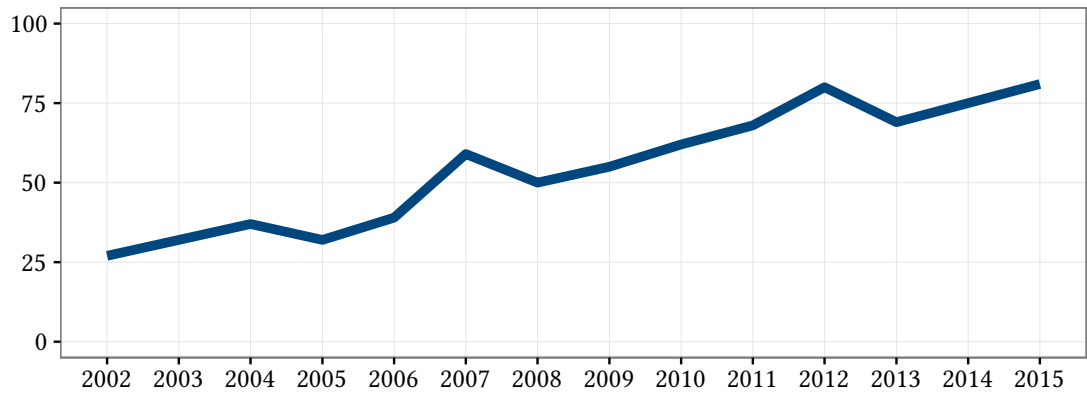
 R. Tamošiūnas, 11
 J. Tamulienė, 4, 21, 23
 P. Tarasov, 12
 M. Tartėnas, 7
 V. Tumasonis, 1

 K. Uosis, 13

 R. Vaicekauskas, 2, 21, 30, 31
 M. Vaičiulis, 10, 26, 27
 A. Vaitkevičienė, 13
 P. Vaitkus, 10
 V. Valaitis, 2, 14, 17, 20, 21, 27, 28
 J. Vysockytė, 14

 V. Zacharovas, 9, 18, 22, 33
 J. Žagūnas, 2
 V. Zemlys, 7
 A. Žilinskas, 2, 16, 22
 A. Zinevičius, 11
 S. Zubė, 4, 19, 22
 L. Žvinytė, 8, 9

NUMBER OF ARTICLES INCLUDED IN SCIENCE CITATION INDEX



NUMBER OF PUBLICATIONS IN 2015 BY DEPARTMENT

