VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS FAKULTETAS

VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS AND INFORMATICS

PUBLICATIONS REPORT
YEAR 2016

VILNIUS
2017

CONTENTS

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

Departament of Computer Science
http://mif.vu.lt/lt3/struktura/katedros/inf

Head Prof. Rimantas Vaicekauskas
Phone: +370 5 219 5010
rimantas.vaicekauskas@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

Rimantas Kybartas. Machine learning. rimantas.kybartas@mif.vu.lt

Linas Litvinas. Computer simulation of biosensors, artificial neural networks.
linas.litvinas@mif.vu.lt

Antanas Mitašiūnas. Process capability assessment and improvement, qualified electronic signature applications. antanas.mitasiunas@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

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

vytautas.valatis@mif.stud.vu.lt

DEPARTAMENT OF COMPUTER SCIENCE II

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`
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`
Alminas Čivilis. Managing moving objects in location-based services, spatial data mining, big data and geographic information systems. `alminas.civilis@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`
Kęstutis Karčiauskas. Computer-aided geometric design, multisided rational surface patches.
`kestutis.karciauskas@mif.vu.lt`
Pijus Kasparaitis. Text-to-speech synthesis. `pkasparaitis@yahoo.com`
Joana Katina. Internet technologies, forecasting models. `joana.katina@mii.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`
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`
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`
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

DOCTORAL STUDENTS

Rokas Astrauskas.	rokas.astrauskas@mif.stud.vu.lt
Justinas Vygintas Daugmaudis.	justinas.daugmaudis@mif.stud.vu.lt
Gintaras Dreižas.	gintaras.dreizas@mif.vu.lt
Andrius Vytautas Misiukas Misiūnas.	misiunas.andrius@gmail.com
Anatolij Nečiporenko.	anatolij.neciporenko@mif.vu.lt
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

Departament 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
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
Gailė Paukštaitė. Generalized Green's functions gaile.paukstaite@mif.vu.lt

Departament of Econometric Analysis

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.

Vydas Čekanavičius. Signed compound Poisson approximations, Kolmogorov's problem.
vydas.cekanavicius@mif.vu.lt
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
Alfredas Račkauskas. Probability limit theorems in functional spaces, applications in statistics and econometrics.   alfredas.rackauskas@mif.vu.lt
Marijus Radavičius. Nonparametrical and adaptive estimation, econometrics, classification, image analysis.   marijus.radavicius@mii.vu.lt
Vaidotas Zemlys. Econometric analysis of mixed frequency data, exploratory data analysis of large datasets, applications of econometric methods for bussiness problems.
vaidotas.zemlys@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

Departament 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 Lenkšas. 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 modelling. 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

Jonas Šiaulys. Actuarial mathematics, risk processes, probabilistic number theory. jonas.siaulys@mif.vu.lt

Aldona Skučaitė. Actuarial sciences. aldona.skucaite@mif.vu.lt

Gediminas Stepanauskas. Mean values and limit theorems for arithmetic functions. gediminas.stepanauskas@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. Limit distributions of sums of additive functions. l.zvinyte@eif.viko.lt

DEPARTAMENT 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. Crystalography databases.   saulius.grazulis@bti.vu.lt

Irus Grinis. Polyvalent interactions in biological systems.   irus.grinis@mif.vu.lt

Živilė Lukšienė. Inactivation of microorganisms: ways, mechanisms, modelling.
                                                       zivile.luksiene@tmi.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

Vytas Zacharovas. Probabilistic combinatorics, analysis of algorithms.
                                                       vytas.zacharovas@mif.vu.lt

Departament of Mathematical Statistics

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
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
Marijus Vaičiulis. Statistical analysis of stochastic processes.
marijus.vaiciulis@mii.vu.lt
Pranas Vaitkus. Large-deviation probabilities, neural networks, nonlinear time series.
pranas.vaitkus@mif.vu.lt

Doctoral students

Simona Staskevičiūtė.
simona.staskeviciute@gmail.com

Departament of Probability Theory and Number Theory

Head Prof. Artūras Dubickas
Phone: +370 5 219 3081
arturas.dubickas@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
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
Gintautas Misevičius. Probabilistic theory of expansions of numbers and functions.
                                                                     gintautas.misevicius@gmail.com
Robertas Petuchovas. Analytic theory of permutations.   robertas.petuchovas@mif.vu.lt
Raivydas Šimėnas. Analytic number theory.   raivydas.simenas@mif.vu.lt
Jonas Šiurys. Number theory, reccurence sequences.   jonas.siurys@mif.vu.lt
Vytautas Stepas. Additive functions on permutations.   vytautas.stepas@mif.vu.lt
Albertas Zinevičius. Distribution of lattice points, hyperelliptic curves.
                                                                     albertas.zinevicius@mif.vu.lt

Doctoral students

Laima Kaziulytė. Analytic number theory.   laima.kaziulyte@mif.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
Audronė Rimkevičienė. Value-distrubution of the periodic Hurwitz zeta-function.
                                                                          audronerim@gmail.com
Gražvydas Šemetulskis. Algebraic and combinatorial number theory.
                                                               grazvydas.semetulskis@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
Adelė Vaiginytė. Universality of zeta-functions of cusp forms.   adelevaiginyte@gmail.com

Departament of Software Engineering

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
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
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
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 Pakalnickienė. Methods of conceptual modeling, their enrichment with integrity requirements.
elita.pakalnickiene@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
Albertas Šermokas. Geographical information systems, analysis and modelling Information system: design, architecture, implementation, project management.   albertas.sermokas@mif.vu.lt
Karolis Uosis.   karolis.uosis@mif.vu.lt
Vytautas Valaitis. Aritificial neural networks, multi-agent evolving systems.
vytautas.valaitis@mif.vu.lt

Doctoral students

Edvinas Greičius.   edvinas.greicius@mif.vu.lt

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

linas.litvinas@mif.vu.lt

Linas 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. Lina Dindienė. *Asymptotic analysis of sums of heavy-tailed random variable*s, scientific supervisor prof. R. Leipus.

2. Agneška Korvel. *Ruin probabilities of the discrete-time risk model with inhomogeneous claims*, scientific supervisor prof. J. Šiaulys.

3. Dalius Krunglevičius, *STDP Learning of Spatial and Spatiotemporal Patterns*, scientific supervisor prof. Š. Raudys.

4. Žilvinas Ledas. *Computational modelling of the self-organization of luminous bacteria in liquid*, scientific supervisor prof. R. Baronas.

5. Antanas Lenkšas. *Weak approximations of Heston model by discrete random variables*, scientific adviser V. Mackevičius.

6. Jurij Novickij. *On the stability of finite difference schemes for hyperbolic equation with nonlocal integral boundary conditions*, scientific supervisor prof. A. Štikonas.

7. Robertas Petuchovas. *Asymptotic analysis of the cyclic structure of permutations*, scientific supervisor prof. E. Manstavičius.

8. Agnė Reklaitė. *Measuring globalization effect: the application of dynamic hierarchical factor model*, scientific supervisor prof. M. Radavičius.

9. Raivydas Šimėnas. *On a-values of zeta-functions*, scientific supervisor prof. R. Garunkštis.

10. Jūratė Šliogerė. *Discrete approximations for sums of weakly dependent variables*, scientific supervisor prof. V. Čekanavičius.

11. Vytautas Valaitis, *Neural Network Based Robot Motion improvement*, scientific supervisor prof. Š. Raudys.

PUBLICATIONS

MONOGRAPHS AND PARTS OF BOOKS[1]

1. Mikhail Korobkov, **Konstantinas Pileckas,** Remigio Russo, Leray's problem on existence of steady state solutions for the Navier–Stokes flow. *Handbook of mathematical analysis in mechanics of viscous fluids*, Editors: Yoshikazu Giga, Antonin Novotny. Cham: Springer International Publishing, p. 1–50.

2. **Antanas Laurinčikas,** The joint discrete universality of periodic zeta-functions. *From Arithmetic fo Zeta Functions*, Cham: Springer International Publishing, p. 231–246.

3. **Eugenijus Manstavičius,** A Turán–Kubilius inequality on mappings of a finite set. *From Arithmetic fo Zeta Functions,* Cham: Springer International Publishing, p. 295–307.

ARTICLES INCLUDED IN CLARIVATE ANALYTICS SCIENCE CITATION INDEX[2]

1. Robertas Adomaitis, Beata Vincel, Audronė Eidukaitė, Elvyra Ostanevičiūtė, **Robertas Kirka,** Vytautas Bilius, Dalius Malcius, Gilvydas Verkauskas, Faruk Hadziselimovic, Consequences of bilateral cryptorchidism in adults, *Andrologia* [published online], **48**(9), p. 933–938.

2. **Giedrius Alkauskas,** Algebraic and abelian solutions to the projective translation equation, *Aequationes mathematicae*, **90**(4), p. 727–763.

3. **Vytautas Ašeris, Romas Baronas, Karolis Petrauskas,** Computational modelling of three-layered biosensor based on chemically modified electrode, *Computational and applied mathematics*, **35**(2), p. 405–421.

   Rokas Astrauskas, see [22].

4. **Romas Baronas,** Antanas Žilinskas, **Linas Litvinas,** Optimal design of amperometric biosensors applying multi-objectiveoptimization and decision visualization, *Electrochimica acta*, **211**, p. 586–594.

   Romas Baronas, see [3].

   Romas Baronas, see [51].

   Margarita Beniušė, see [28].

   Vydas Čekanavičius, see [58].

5. Jelena Čelutkienė, Greta Burneikaitė, **Linas Petkevičius,** Laura Balkevičienė, Aleksandras Laucevičius, Combination of single quantitative parameters into multiparametric model for ischemia detection is not superior to visual assessment during dobutamine stress echocardiography, *Cardiovascular ultrasound*, **14**(13) [1–9].

6. Vaidotas Characiejus, **Alfredas Račkauskas,** Weak law of large numbers for linear processes, *Acta Mathematica Hungarica*, 149(1), p. 215–232.

---

[1] Categories K1, Y in VU Publications database
[2] Clarivate Analytics. Web of Science Citation Index (online search)

7. Svetlana Danilenko, **Jonas Šiaulys,** Randomly stopped sums of not identically distributed heavy tailed random variables, *Statistics and probability letters*, **113**, p. 84–93.

8. Darius Dementavičius, Viktorija Lukševičiūtė, V.M. Gomez–Lopez, **Živilė Lukšienė,** Application of mathematical models for bacterial inactivation curves using Hypericin-based photosensitization, *Journal of applied microbiology,* **120**, p. 1492–1500.

9. **Lina Dindienė, Remigijus Leipus,** Weak max-sum equivalence for dependent heavy-tailed random variables, *Lithuanian mathematical journal*, **56**(1), p. 49–59.

10. **Paulius Drungilas, Artūras Dubickas,** On degrees of three algebraic numbers with zero sum or unit product, *Colloquium Mathematicae,* **143**(2), p. 159–167.

11. **Artūras Dubickas,** Couting integer reducible polynomials with bounded measure, *Applicable analysis and discrete mathematics*, **10**(2), p. 308–324.

12. **Artūras Dubickas,** Salem numbers as Mahler measures of nonreciprocal units, *Acta arithmetica*, **176**(1), p. 81–88

13. **Artūras Dubickas,** Dijana Kreso, Diophantine equations with truncated binomial polynomials, *Indagationes Mathematicae*, **27**(1), p. 392–405.

14. **Artūras Dubickas, Antanas Laurinčikas,** Distribution modulo 1 and the discrete universality of the Riemann zeta-function, *Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg*, **86**(1), p. 79–87.

15. **Artūras Dubickas,** Min Sha, Positive density of integer polynomials with some prescribed properties, *Journal of number theory*, **159**, p. 27–44.

    Artūras Dubickas, see [10].

16. **Edmundas Gaigalas,** The upper bound for the dimension of the space of theta-series, *Lithuanian mathematical journal*, **56**(3), p. 291–297.

17. Virginija Garbaliauskienė, **Antanas Laurinčikas,** A joint Elliott type theorem for twists of *L*-functions of elliptic curves, *Mathematical modelling and analysis*, **21**(6), p. 752–761.

18. Carlos Garcimartin, **Virmantas Kvedaras,** Luis Rivas, Business cycles in a balance-of-payments constrained growth framework, *Economic modelling*, **57**, p. 120–132.

19. **Ramūnas Garunkštis, Andrius Grigutis,** The size of the Selberg zeta-function at places symmetric with respect to the line Re(s)=1/2, *Results in mathematics*, **70**(1), p. 271–281.

20. Eric Ghysels, **Virmantas Kvedaras, Vaidotas Zemlys,** Mixed frequency data sampling regression models: the R package midasr, *Journal of statistical software*, **72**(4), p. 1–35.

    Saulius Gražulis, see [41].

    Andrius Grigutis, see [19].

21. **Feliksas Ivanauskas, Pranas Katauskis,** Valdas Stanislovas Laurinavičius, Impact of convective transport and inert membrane on action of the bio-catalytic filter, *Journal of mathematical chemistry*, **54**(6), p. 1221–1232.

22. **Feliksas Ivanauskas,** Inga Morkvėnaitė–Vilkončienė, **Rokas Astrauskas,** Arūnas Ramanavičius, Modelling of scanning electrochemical microscopy at redox competition mode using diffusion and reaction equations, *Electrochimica acta*, **222**, p. 347–354.

    Feliksas Ivanauskas, see [27].

Feliksas Ivanauskas, see [45].

23. **Kęstutis Janulis,** Donatas Jurgaitis, **Antanas Laurinčikas,** Renata Macaitienė, Universality theorems for some composite functions, *Mathematical modelling and analysis*, **21**(1), p. 35–46.

   Raimondas Jasevičius, see [30].

   Raimondas Jasevičius, see [60].

24. **Kęstutis Karčiauskas,** Thien Nguyen, Jörg Peters, Generalizing bicubic splines for modeling and IGA with irregular layout, *Computer-aided design,* **70**, p. 23–35.

25. **Kęstutis Karčiauskas,** Jörg Peters, Curvature continuous bi-4 constructions for scaffold- and sphere-like surfaces, *Computer-aided design*, **78**(Special issue), p. 48–59.

26. **Kęstutis Karčiauskas,** Jörg Peters, Minimal bi-6 G(2) completion of bicubic spline surfaces, *Computer aided geometric design*, **41**, p. 10–22.

   Kęstutis Karčiauskas, see [43].

27. Simonas Kareiva, Vytautas Klimavičius, Aleksandr Momot, Jonas Kausteklis, Aleksandra Prichodko, Laurynas Dagys, **Feliksas Ivanauskas,** Simas Šakirzanovas, Vytautas Balevičius, Aivaras Kareiva, Sol-gel synthesis, phase composition, morphological and structural characterization of Ca10(PO4)6(OH)2: XRD, FTIR, SEM, 3D SEM and solid-state NMR studies, *Journal of molecular structure*, **1119**, p. 1–11.

28. **Pijus Kasparaitis, Margarita Beniušė,** Automatic parameters estimation of the D. Klatt phoneme duration model, *Informatica*, **27**(3), p. 573–586.

   Pranas Katauskis, see [21].

   Pranas Katauskis, see [53].

   Pranas Katauskis, see [54].

   Pranas Katauskis, see [55].

   Robertas Kirka, see [1].

29. Mikhail Korobkov, **Konstantinas Pileckas,** Remigio Russo, Addendum to: The Liouville theorem for the steady-state Navier–Stokes problem for axially symmetric 3D solutions in absence of swirl (vol 17, pg 287, 2015), *Journal of mathematical fluid mechanics*, **18**(1), p. 207.

30. Harald Kruggel–Emden, Bogdan Kravets, Maddu Kondaiah Suryanarayana, **Raimondas Jasevičius,** Direct numerical simulation of coupled fluid flow and heat transfer for single particles and particle packings by a LBM-approach, *Powder technology*, **294**, p. 236–251.

31. Kęstutis Kubilius, **Viktor Skorniakov,** Dmitrij Melichov, Estimation of parameters of SDE driven by fractional Brownian motion with polynomial drift, *Journal of statistical computation and simulation*, **86**(10), p. 1954–1969.

32. Kęstutis Kubilius, **Viktor Skorniakov,** On some estimators of the Hurst index of the solution of SDE driven by a fractional Brownian motion, *Statistics & Probability Letters*, **109**, p. 159–167.

   Virmantas Kvedaras, see [18].

   Virmantas Kvedaras, see [20].

33. **Antanas Laurinčikas,** An Elliott-type theorem for twists of *L*-functions of elliptic curves, *Mathematical notes*, **99**(1), p. 82–90.

34. **Antanas Laurinčikas,** Distribution modulo 1 and universality of the Hurwitz zeta-function, *Journal of number theory*, **167**, p. 294–303.

35. **Antanas Laurinčikas,** Universality theorems for zeta-functions with periodic coefficients, *Siberian Mathematical Journal*, **57**(2), p. 330–339.

36. **Antanas Laurinčikas,** Renata Macaitienė, Darius Šiaučiūnas, Uniform distribution modulo 1 and the joint universality of Dirichlet *L*-functions, *Lithuanian mathematical journal*, **56**(4), p. 529–539.

37. **Antanas Laurinčikas,** Kohji Matsumoto, Joern Steuding, Discrete universality of *L*-functions of new forms. II, *Lithuanian mathematical journal*, **56**(2), p. 207–218.

38. **Antanas Laurinčikas, Laimonas Meška,** On the modification of the universality of the Hurwitz zeta-function, *Nonlinear analysis: modelling and control*, **21**(4), p. 564–576.

Antanas Laurinčikas, see [14].

Antanas Laurinčikas, see [17].

Antanas Laurinčikas, see [23].

Žilvinas Ledas, see [51].

Remigijus Leipus, see [9].

Remigijus Leipus, see [61].

Linas Litvinas, see [4].

Živilė Lukšienė, see [8].

39. **Eugenijus Manstavičius, Robertas Petuchovas,** Local probabilities for random permutations without long cycles, *The Electronic Journal of Combinatorics*, **23**(1), Art. No. P1.58.

40. **Jurgita Markevičiūtė,** Epidemic change tests for the mean of innovations of an AR(1) process, *Statistics and probability letters*, **112**, p. 79–91.

41. Andrius Merkys, Antanas Vaitkus, Justas Butkus, Mykolas Okulič–Kazarinas, Visvaldas Kairys, **Saulius Gražulis,** COD::CIF::Parser: an error-correcting CIF parser for the Perl language, *Journal of Applied Crystallography*, **49**(1), p. 292–301.

Laimonas Meška, see [38].

42. **Laurynas Naruševičius, Alfredas Račkauskas,** Comparing dissimilarity measures: a case of banking ratios, *Informatica*, **27**(3), p. 649–672.

43. Thien Nguyen, **Kęstutis Karčiauskas,** Jörg Peters, C1 finite elements on non-tensor-product 2d and 3d manifolds, *Applied mathematics and computation*, **272**(1), p. 148–158.

44. **Vygantas Paulauskas,** Some remarks on definitions of memory for stationary random processes and fields, *Lithuanian mathematical journal*, **56**(2), p. 229–250.

Linas Petkevičius, see [5].

Karolis Petrauskas, see [3].

Robertas Petuchovas, see [39].

Konstantinas Pileckas, see [29].

45. **Mantas Puida,** Jurgita Dabulytė–Bagdonavičienė, **Feliksas Ivanauskas,** Valdemaras Razumas, Julija Razumienė, Ieva Šakinytė, Glucose sensor based on nanostructured carbon electrode with immobilized PQQ-containing glucose dehydrogenase: Construction, experimental study and mathematical modeling, *Nonlinear Analysis: Modelling and Control*, **21**(5), p. 702–715.

46. **Donata Puplinskaitė,** Donatas Surgailis, Aggregation of autoregressive random fields and anisotropic long-range dependence, *Bernoulli*, **22**(4), p. 2401–2441.

47. **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.

Alfredas Račkauskas, see [6].

Alfredas Račkauskas, see [42].

48. **Agnė Reklaitė,** Measuring foreign impact: leading index construction using hierarchical dynamic factor model, *Baltic journal of economics,* **16**(1), p. 21–32.

49. **Svajūnas Sajavičius,** Radial basis function collocation method for an elliptic problem with nonlocal multipoint boundary condition, *Engineering analysis with boundary elements*, **67**, p. 164–172.

50. Mifodijus Sapagovas, **Olga Štikonienė,** Regimantas Čiupaila, Živilė Jokšienė, Convergence of iterative methods for elliptic equations with integral boundary conditions, *Electronic Journal of Diferential Equations*, **2016**(118), p. 1–14.

Jonas Šiaulys, see [7].

Jonas Šiaulys, see [61].

51. Remigijus Šimkus, Rita Meškienė, **Žilvinas Ledas, Romas Baronas,** Rolandas Meškys, Microtiter plate tests for segregation of bioluminescent bacteria, *Luminescence*, **31**(1), p. 127–134.

52. **Jonas Šiurys,** On integers not of the form $F_n \pm p^a$, *International journal of number theory*, **12**(2), p. 505–512.

53. **Vladas Skakauskas, Pranas Katauskis,** Modeling neutralization of Shiga 2 toxin by A-and B-subunit-specific human monoclonal antibodies, *Journal of biological physics*, **42**(3), p. 435–452.

54. **Vladas Skakauskas, Pranas Katauskis,** Modeling of toxin-antibody interaction and toxin transport toward the endoplasmic reticulum, *Journal of Biological Physics*, **42**(1), p. 83–97.

55. **Vladas Skakauskas, Pranas Katauskis,** Numerical study of CO oxidation by N2O reaction over supported catalysts, *Journal of mathematical chemistry*, **54**(6), p. 1306–1320.

Viktor Skorniakov, see [31].

Viktor Skorniakov, see [32].

56. **Mindaugas Skujus,** Asymptotic conditions at infinity for the time-periodic Stokes problem in a system of pipes, *Analysis and applications*, **14**(2), p. 233–268.

57. **Mindaugas Skujus, Vytenis Šumskas,** Asymptotics of a solution to the time-periodic heat equation set in domains with corner points, *Lithuanian mathematical journal*, **56**(4), p. 552–571.

58. **Jūratė Šliogerė, Vydas Čekanavičius,** Approximation of symmetric three-state Markov chain by compound Poisson law, *Lithuanian mathematical journal*, **56**(3), p. 417–438.

59. **Gediminas Stepanauskas, Laura Žvinytė,** Discrete uniform limit law for additive functions on shifted primes, *Nonlinear analysis: modelling and control*, **21**(4), p. 437–447.

Olga Štikonienė, see [50].

Vytenis Šumskas, see [57].

60. Kevin Vollmari, **Raimondas Jasevičius,** Harald Kruggel–Emden, Experimental and numerical study of fluidization and pressure drop of spherical and non-spherical particles in a model scale fluidized bed, *Powder technology: an international journal of the science and technology of wet and dry particulate systems*, **291**, p. 506–521.

61. **Yang Yang, Remigijus Leipus, Jonas Šiaulys,** Asymptotics for randomly weighted and stopped dependent sums, *Stochastics: an international journal of probability and stochastic processes*, **88**(2), p. 300–319.

Vaidotas Zemlys, see [20].

62. **Antanas Žilinskas,** Extension of Data Envelopment Analysis with Preference Information: Value Efficiency: [recenzija], *Interfaces*, **46**(1), p. 110–112.

63. **Albertas Zinevičius,** On the congruent number problem over integers of cyclic number fields, *Mathematica Slovaca*, **66**(3), p. 561–564.

Laura Žvinytė, see [59].

Articles included in Clarivate Analytics without Citation Index[3]

1. **Vytautas Čyras,** Friedrich Lachmayer, Erich Schweighofer, Visualization as a tertium comparationis within multilingual communities, *Baltic journal of modern computing*, **4**(3), p. 524–545.

2. Svetlana Danilenko, **Simona Paškauskaitė, Jonas Šiaulys,** Random convolution of inhomogeneous distributions with *O*-exponential tail, *Modern stochastics: theory and applications*, **3**(1), p. 79–94.

3. **Edita Kizinevič, Jonas Sprindys, Jonas Šiaulys,** Randomly stopped sums with consistently varying distributions, *Modern stochastics: theory and applications*, **3**(2), p. 165–179.

4. **Antanas Laurinčikas,** Uniform distribution modulo 1 and the universality of zeta-functions of certain cusp forms, *Publications de l'Institut Mathématique. Nouvelle série. Belgrade,* **100(114)**, p. 131–140. (is A)

Simona Paškauskaitė, see [2].

Jonas Šiaulys, see [2].

Jonas Šiaulys, see [3].

Jonas Sprindys, see [3].

---

[3] Clarivate Analytics. Web of Science (online search). Category S1 in VU Publications database

ARTICLES INCLUDED IN CLARIVATE ANALYTICS CONFERENCE PROCEEDINGS[4]

Tomaš Andruškevič, see [4].

Tomaš Andruškevič, see [5].

Tomaš Andruškevič, see [6].

1. **Mindaugas Bloznelis,** Lasse Leskelä, Diclique clustering in a directed random graph, *Algorithms and Models for the Web Graph*, Waw 2016: 13th International Workshop on Algorithms and Models for the Web Graph, Montreal, Canada, December 14–15, 2016. Ed. by: Bonato, A; Graham, FC; Pralat, P. Book Series: Lecture Notes in Computer Science, Vol. **10088**, p. 22–33.

   Linas Bukauskas, see [3].

2. **Vytautas Čyras,** Friedrich Lachmayer, Erich Schweighofer, Views to legal information systems and legal sublevels, *Information and software technologies*, ICIST 2016: 22nd International Conference on Information and Software Technologies, Druskininkai, Lithuania, October 13–15, 2016. Ed. by: G. Dregvaitė, R. Damaševičius. Book Series: Communications in Computer and Information Science, Vol. **639**, p. 18–29.

3. Mahmoud E. Hodeish, **Linas Bukauskas,** Vikas T. Humbe, An optimal *(k,n)* Visual Secret Sharing scheme for information security, *Proceedings of the 6th International Conference on Advances in Computing and Communications* (ICACC), India, September 6–8, 2016. Ed. by: J. Mathew, D. DasKrishna, J. Jose. Book Series: Procedia Computer Science, Vol. **93**, p. 760–767.

4. Jevgenij Kurilov, Julija Kurilova, **Tomaš Andruškevič,** On evaluation of quality and suitability of learning paths to students' personal needs, *EDULEARN16: 8th international conference on education and new learning technologies*, July 4–6, 2016, Barcelona, Spain. Ed by: Chova, LG; Martinez, AL; Torres, IC. Book series: EDULEARN proceedings, p. 111–121.

5. Jevgenij Kurilov, Julija Kurilova, **Tomaš Andruškevič,** On personalised learning approach based on application of intelligent technologies, *EDULEARN16: 8th international conference on education and new learning technologies*, July 4–6, 2016, Barcelona, Spain. Ed by: Chova, LG; Martinez, AL; Torres, IC. Book series: EDULEARN proceedings, p. 89–98.

6. Jevgenij Kurilov, Julija Kurilova, **Tomaš Andruškevič,** On Suitability Index to Create Optimal Personalised Learning Packages, *Information And Software Technologies, Icist 2016*, 22nd International Conference on Information and Software Technologies (ICIST), Druskininkai, Lithuania, Oct. 13–15, 2016. Ed. by: G. Drėgvaitė, R. Damaševičius. Book Series: Communications in Computer and Information Science, Vol. **639**, p. 479–490. (nebuvo)

7. **Jurij Novickij, Artūras Štikonas,** Agnė Skučaitė, On the stability of a weighted finite difference scheme for hyperbolic equation with integral boundary conditions, *Numerical mathematics and advanced applications ENUMATH 2015,* European Conference on Numerical Mathematics and Advanced Applications (ENUMATH)*,* Ankara, Turkey, Sept. 14–18, 2015. Ed. by:Karasozen, B; Manguoglu, M; TezerSezgin, M; Goktepe, S; Ugur, O. Book series: Lecture notes in computational science and engineering, Vol. **112**. p. 617–626. (iš A)

   Gailė Paukštaitė, see [9].

---

8. **Aistis Raudys,** Portfolio of global futures algorithmic trading strategies for best out-of-sample performance, *Business information systems* (BIS 2016): 19th international conference on business information systems, Leipzig, Germany, July, 6–8, 2016. Ed. by: Abramowicz, W Alt, R Franczyk, B. Book series: Lecture Notes in Business Information Processing, Vol. 255. p. 424–435.

9. **Artūras Štikonas, Gailė Paukštaitė,** The minimum norm least squares solution to the discrete nonlocal problems, *Numerical computations: theory and algorithms* (NUMTA–2016): 2nd International Conference on Numerical Computations-Theory and Algorithms, 19–25 June 2016, Pizzo Calabro, Italy. Ed: Sergeyev, YD; Kvasov, DE; DellAccio, F; Mukhametzhanov, MS. Book Series: AIP conference proceedings. Vol. **1776**, Article Number: 090039.

Artūras Štikonas, see [7].

Articles in group A journals[5]

1. **Mindaugas Bloznelis,** Valentas Kurauskas, Clustering function: Another view on clustering coefficient, *Journal of complex networks,* **4**(1), p. 61–86.

2. **Vytautas Čyras,** Friedrich Lachmayer, Erich Schweighofer, Network of legal metalevels, *IRIS 2016: Proceedings of the 19th International legal informatics symposium*, 25–27 Februar 2016, Universitat Salzburg, p. 83–92.

Vytautas Čyras, see [20].

3. **Paulius Drungilas, Jaunius Eitmantis,** Height reducing properties of certain cubic algebraic integers, Šiauliai Math. Semin. **11**(19) (2016), p. 1-12.

4. **Paulius Drungilas, Romualdas Kašuba,** About the New Specification of the Kangaroo Competition in Lirhuania, *Teaching mathematics: retrospective and perspectives: proceedings of the 16th international conference: May 7–9, 2015, Palanga, Lithuania,* p. 54–68.

5. **Artūras Dubickas,** Pisot numbers and their conjugates, *Numeration 2016, Prague, Czech Republic, May 23–27, 2016,* p. 6–9.

Jaunius Eitmantis, see [3].

Edvinas Greičius, see [15].

6. Vilma Gesevičienė, **Edmundas Mazėtis,** Problems of non-formal mathematical education in Lithuanian schools, *Teaching mathematics: retrospective and perspectives: proceedings of the 17th international conference, May 6–7, 2016. Tallinn,* p. 34–42.

7. Vilma Gesevičienė, **Edmundas Mazėtis,** Rewiew of the LUES young mathematicians Olympiad, *Teaching mathematics: retrospective and perspectives: proceedings of the 16th international conference: May 7–9, 2015, Palanga, Lithuania*, p. 69–78.

8. **Pijus Kasparaitis,** Lietuviško balso sintezatorių kokybės vertinimas = Evaluation of Lithuanian text-to-speech synthesizers, *Kalbų studijos = Studies about Languages* **28**, p. 80–91.

9. **Romualdas Kašuba, Aivaras Novikas,** A non-trivial step in solving an easy math problem, *Teaching mathematics: retrospective and perspectives: proceedings of the 17th international conference, May 6–7, 2016, Tallinn,* p. 77–85.

---

[5] Categories S3, S4, P1c, P1d, P1e and P1g in VU Publications database.

Romualdas Kašuba, see [4].

10. **Antanas Laurinčikas,** Renata Macaitienė, Universality results on Hurwitz zeta-functions, *Banach Center Publications*, Algebra logic and number theory, **108** p. 161–172.

11. **Antanas Laurinčikas,** Renata Macaitienė, Распределение значений сверток *L*-функций эллиптических кривых, *Современные проблемы математики*, **23**, p. 79–86.

12. **Antanas Laurinčikas, Laimonas Meška,** Modification of the Mishou theorem, *Chebyshevskii Sbornik*, **17**(3), p. 125–137.

13. **Antanas Laurinčikas, Dmitrij Mochov,** A discrete universality theorem for periodic Hurwitz zeta-functions, *Chebyshevskii Sbornik,* **17**(1), p. 148–159.

14. **Eugenijus Manstavičius, Vytautas Stepas**, Variance of additive functions defined on random assemblies, *Proceedings of the 27th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms Krak´ow, Poland, 4–8 July 2016,* [published online], no. 24 p. 1–3.

15. **Saulius Minkevičius, Edvinas Greičius,** On the inequality in open multiserver queueing networks, *Computer data analysis and modeling: theoretical and applied stochastics: proceedings of the XI International conference, September 6–10, 2016, Minsk,* p. 291–295.

16. **Oleg Mirzianov, Saulius Ragaišis, Antanas Mitašiūnas,** Learning process assessment and improvement. Lund: Björn Johansson, Filip Vencovský. 2016, paper no. 10.

Edmundas Mazėtis, see [6].

Edmundas Mazėtis, see [7].

Laimonas Meška, see [12].

Antanas Mitašiūnas, see [16].

Dmitrij Mochov, see [13].

17. **Gediminas Murauskas, Marijus Radavičius,** Daugelio elementų paskirstymo problema: pirmumo strategijos analizė = Multi-unit assignment problem: FCFS course allocation system data analysis, *Lithuanian journal of statistics = Lietuvos statistikos darbai*, **55**, (1), p. 70–80.

Aivaras Novikas, see [9].

18. **Robertas Petuchovas,** Recent results on permutations without short cycles, *Proceedings of the 27th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms Krak´ow, Poland, 4–8 July 2016,* [published online], no. 25 p. 1–4.

Marijus Radavičius, see [17].

Saulius Ragaišis, see [16].

Jonas Šiaulys, see [19].

19. **Natalja Šiškina, Jonas Šiaulys,** ARMA models for mortality forecast = ARMA modeliai mirtingumo prognozei, *Lithuanian journal of statistics = Lietuvos statistikos darbai*, **55**(1), p. 31–44.

Vytautas Stepas, see [14].

20. Caroline Walser Kessel, Friedrich Lachmayer, **Vytautas Čyras,** Peter Parycek, Yueh–Hsuan Weng, Rechtsvisualisierung als Vernetzung von Sprache und Bild–Anmerkungen zum Buch "Kennst Du das Recht?", *IRIS 2016: Proceedings of the 19th International legal informatics symposium*, 25–27 Februar 2016, Universitat Salzburg, p. 365–371.

21. **Vytas Zacharovas**, On the exponential decay of the characteristic function of the quicksort distribution, *Proceedings of the 27th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms Krak´ow, Poland, 4–8 July 2016,* [published online], no. 31, p. 1–9.

ARTICLES IN GROUP B JOURNALS[6]

1. Jurgis Barkauskas, Justina Gaidukevič, Julija Razumienė, Ieva Šakinytė, **Romas Baronas, Karolis Petrauskas,** Electrocatalytic activity of graphene/(SCN)n composites for oxygen reduction reaction, *Carbon' 16: World Conference on Carbon: program, Pennsylvania, July 10–15*, p. 1–6.

   Romas Baronas, see [1].

   Vytautas Čyras, see [6].

2. **Povilas Daniušis, Pranas Vaitkus, Linas Petkevičius,** Hilbert–Schmidt component analysis = Hilberto–Šmito komponenčių analizė, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. A, **57**, p. 7–11.

3. **Justinas Vygintas Daugmaudis,** Audrius Laurynėnas, Juozas Kulys, **Feliksas Ivanauskas,** A general biochemical kinetics data fitting algorithm for quasi-steady-state detection = Apibendrintas biocheminės kinetikos duomenų analizės algoritmas kvazi-stacionarių būsenų aptikimui, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. A, **57**, p. 12–17.

4. **Audrius Indriulionis, Pranas Vaitkus,** Radial basis function method modelling borehole heat transfer: the practical application = Vertikalių kolektorių šilumos modeliavimas radialinėmis bazinėmis funkcijomis: praktininis taikymas, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. B, **57**, p. 18–23.

   Feliksas Ivanauskas, see [3].

5. **Pranas Katauskis, Živilė Vidutytė,** Numerical study of two-molecular catalytic reaction on composite catalyst = Monomerų reakcijų kompozitinių katalizatorių paviršiuje skaitinis tyrimas: gerai išmaišytų medžiagų modelis*, Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. A, **57**, p. 35–40.

6. Friedrich Lachmayer, **Vytautas Čyras,** Harald Hofmann, Verweisungen: Vom Zitat zum Informationstransfer*, Linzer Legistik–Gespräche 2015*. Series: Scriftenreihe des Landes Oberosterreich. Bd. 14. p. 97–100.

7. **Antanas Laurinčikas, Vitolda Verikaitė**, Henrikas Jasiūnas – Lietuvos matematikų muziejaus įkūrėjas = Henrikas Jasiūnas – the founder of the museum of Lithuanian mathematicians, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. B, **57**, p. 122–127.

---

[6] Categories S5, P1f, P2a, P2b, P2c in VU Publications database.

8. Jevgenijus Kirjackis, **Edmundas Mazėtis,** Grigorijus Melničenko, Apie vieno brėžimo uždavinio neišsprendžiamumą. II = On the insolubility of one drawing problem II, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. B, **57**, p. 89–93.

Edmundas Mazėtis, see [8].

Tadas Meškauskas, see [10].

9. **Gintautas Misevičius, Vitolda Verikaitė,** Dzūkijos darbštuolis (docento Algirdo Miškelevičiaus 80–čiui) = Diligent mathematician from southeast Lithuania (on the occasion of asociate professor A. Miškelevičius 80th anniversary, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. B, **57**, p. 128–133.

10. **Andrius Vytautas Misiukas Misiūnas, Tadas Meškauskas,** Rūta Samaitienė, Derivative parameters of electroencephalograms and their measurement methods = Elektroencefalogramų išvestiniai parametrai ir jų nustatymo metodika, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. A, **57**, p. 47–52.

11. **Gailė Paukštaitė, Artūras Štikonas,** Nullspace of the m-th order discrete problem with nonlocal conditions = m-osios eilės diskrečiojo uždavinio su nelokaliosiomis sąlygomis nulių aibė, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. A, **57**, p. 59–64.

Karolis Petrauskas, see [1].

Linas Petkevičius, see [2].

Šarūnas Repšys, see [13].

12. **Audronė Rimkevičienė,** A discrete limit theorem for the periodic Hurwitz zeta-function. II = Diskreti ribinė teorema periodinei Hurvico dzeta funkcijai. II, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. A, **57**, p. 71–74.

13. **Vladas Skakauskas, Šarūnas Repšys,** Modelling of an age-structured population dynamics taking into account a discrete set of offspring = Populiacijos, turinčios amžių bei diskrečią vaikų aibę, dinamikos modeliavimas, *Lietuvos matematikos rinkinys. Proceedings of the Lithuanian Mathematical Society*. Ser. A, **57**, p. 75–80.

Artūras Štikonas, see [11].

14. **Mindaugas Stoncelis,** Weighted universality of periodic zeta-function, *Исследования по алгебре, теории чисел, функциональному анализу и смежным вопросам,* **8**, p. 118–119.

Pranas Vaitkus, see [2].

Pranas Vaitkus, see [4].

Vitolda Verikaitė, see [7].

Vitolda Verikaitė, see [9].

Živilė Vidutytė, see [5].

Textbooks[7]

1. **Mindaugas Bloznelis**, *Kombinatorikos ir grafų teorijos paskaitos,* vadovėlis, Vilniaus universiteto leidykla, 117 p.

2. **Vydas Čekanavičius,** *Approximation methods in probability theory,* Springer International Publishing, 274 p.

3. **Vigirdas Mackevičius,** *Stochastic models of financial mathematics*, London–Oxford: ISTE Press–Elsevier, 130 p.

Books and lecture notes

1. **Henrikas Jasiūnas, Vitolda Verikaitė,** *Lietuvos matematikams atminti*, Vilnius: Vilniaus universiteto leidykla, 48 p.

2. **Vitolda Verikaitė,** *Algirdas Miškelevičius*, Vilnius: Vilniaus universiteto Matematikos ir informatikos fakultetas, 138 p.

   Vitolda Verikaitė, see [1].

Conference reports

1. Robertas Adomaitis, Beata Vincel, Audronė Eidukaitė, Elvyra Ostanevičiūtė, **Robertas Kirka,** Vytautas Bilius, Dalius Malcius, Gilvydas Verkauskas, Faruk Hadziselimovic, Consequences of bilateral cryptorchidism in adults, *3rd EAU Baltic Meeting: 27–28 May 2016, Tallinn, Estonia*, vol. 15, iss. 5, p. no. 88.

2. **Giedrius Alkauskas**, Projective superflows, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

3. **Gintautas Bareikis**, Modeling beta distribution with the multiplicative functions, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

4. **Romas Baronas, Linas Petkevičius,** Micro-reactor with an outer layer: experimental investigation and modelling, *Data analysis methods for software systems: 8th international workshop on data analysis methods for software systems, Druskininkai, December 1–3, 2016*, p. 13.

   Romas Baronas, see [11].

   Romas Baronas, see [22].

   Romas Baronas, see [23].

   Romas Baronas, see [37].

   Agnė Brilingaitė, see [16].

   Linas Bukauskas, see [16].

---

[7] Categories K2a, K2b in VU Publications database.

5. **Vydas Čekanavičius,** Discrete approximation theorems for statistics related to Bernoulli variables, *The X Tartu Conference on Multivariate Statistics, 28 June – 1 July 2016, Tartu, Estonia: abstracts*, p. 11.

6. **Vytautas Čyras,** Friedrich Lachmayer, Meaning and metameaning, *DIGITAL 2016, Workshop Legal Framing, Wien, Austria, November 22-23 2016.*

7. **Vytautas Čyras,** Friedrich Lachmayer, **Kristina Lapin,** Different views to law and representation of meanings, *Data analysis methods for software systems: 8th international workshop on data analysis methods for software systems, Druskininkai, December 1–3, 2016*, p. 17.

8. **Ignas Dapšys,** Optimization problem for light quality control of polychromatic solid-state lighting devices, *59th scientific conference for students of physics and natural sciences: programme and abstracts*, p. 184.

9. **Lina Dindienė, Remigijus Leipus, Jonas Šiaulys,** Closure property and tail probability asymptotics for randomly weighted sums of dependent random variables with heavy tails, *The 10th Tartu conference on multivariate statistics, 28 June – 1 July 2016, Tartu, Estonia: abstracts*, p. 15.

10. **Artūras Dubickas**, Salem numbers as usual Mahler measure, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

11. Justina Gaidukevič, Jurgis Barkauskas, Julija Razumienė, Ieva Šakinytė, **Romas Baronas, Karolis Petrauskas,** Graphene/(SCN)n composites as efficient electrocatalysts for the oxygen reduction reaction, *3rd European conference on smart inorganic polymers, September 12–14, 2016, Porto, Portugal: book of abstracts*, p. 61.

12. Virginija Garbaliauskienė, **Antanas Laurinčikas,** χ-universality of twists of elliptic curves, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 22.

13. **Ramūnas Garunkštis**, Some questions related to universality of zeta-functions, *Aspects of Universality, 6–8 May 2016, Wuerzburg, Germany*.

14. **Ramūnas Garunkštis**, On the Speiser equivalent for the Riemann hypothesis, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

    Saulius Gražulis, see [27].

    Edvinas Greičius, see [30].

15. **Andrius Grigutis**, On a positivity property of the Riemann ξ-function, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

    Robertas Kirka, see [1].

16. **Virgilijus Krinickij, Linas Bukauskas, Agnė Brilingaitė,** Table-top exercise gamification with dynamic scenario for cyber security qualification assessment, *Data analysis methods for software systems: 8th international workshop on data analysis methods for software systems, Druskininkai, December 1–3, 2016*, p. 31–32.

17. **Kristina Lapin,** User needs and quality in use: an overview of user satisfaction models, *Data analysis methods for software systems: 8th international workshop on data analysis methods for software systems, Druskininkai, December 1–3, 2016*, p. 33.

    Kristina Lapin, see [7].

18. **Antanas Laurinčikas,** Universality of some composite functions related to periodic zeta-functions, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 44.

19. **Antanas Laurinčikas,** Renata Macaitienė, Darius Šiaučiūnas, On joint universality of Dirichlet *L*-functions, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016*, p. 45.

20. **Antanas Laurinčikas**, Zeros of the Riemann zeta-function and universality, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016*.

    Antanas Laurinčikas, see [12].

    Antanas Laurinčikas, see [39].

21. **Remigijus Leipus,** Estimation and testing in the random coefficient dynamic panel data model, *The 10th Tartu conference on multivariate statistics, 28 June – 1 July 2016, Tartu, Estonia: abstracts*, p. 34.

    Remigijus Leipus, see [9].

22. **Linas Litvinas, Romas Baronas, Antanas Žilinskas,** Computer model based optimisation of biosensor utilizing synergistic substrates conversion, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 48.

23. **Linas Litvinas, Romas Baronas, Antanas Žilinskas,** Optimisation of biosensor utilizing synergistic substrates conversion, *59th scientific conference for students of physics and natural sciences: programme and abstracts*, p. 296.

24. **Algirdas Mačiulis**, On the distribution of common primes, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016*.

25. **Eugenijus Manstavičius**, The Poisson–Dirichlet process in number theory and combinatorics, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016*.

26. **Aidas Medžiūnas,** Jonas Venius, Mathematical model of bolus surface for various angles in electron cancer therapy, *59th scientific conference for students of physics and natural sciences: programme and abstracts*, p. 85.

27. Andrius Merkys, Antanas Vaitkus, Mykolas Okulič–Kazarinas, **Saulius Gražulis,** Spotting the geometric properties in the crystallography open database, *59th scientific conference for students of physics and natural sciences: programme and abstracts*, p. 41.

28. **Laimonas Meška,** Modification of the Mishou theorem, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 51.

29. **Laimonas Meška**, Modifications of universality theorems, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

30. **Saulius Minkevičius, Edvinas Greičius,** An application of recurrent method for the analysis of computer network, *Data analysis methods for software systems: 8th international workshop on data analysis methods for software systems, Druskininkai, December 1–3, 2016,* p. 38.

31. **Dmitrij Mochov,** Darius Šiaučiūnas, Discrete universality theorem for the periodic Hurwitz zeta-function, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 53.

32. **Laurynas Naruševičius, Alfredas Račkauskas,** Comparing dissimilarity measures: a case of banking ratios, *The 10th Tartu conference on multivariate statistics, 28 June – 1 July 2016, Tartu, Estonia: abstracts,* p. 39.

33. **Olga Navickienė, Jonas Šiaulys,** Gerber–Shiu discounted penalty function for the bi-seasonal discrete time risk model, *The 10th Tartu conference on multivariate statistics, 28 June – 1 July 2016, Tartu, Estonia: abstracts*, p. 40.

34. **Jurij Novickij, Artūras Štikonas,** On the stability of discrete nonlocal hyperbolic boundary problem, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 57.

35. **Gailė Paukštaitė, Artūras Štikonas,** Generalized Green's functions to the differential nonlocal problems, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 59.

   Gailė Paukštaitė, see [45].

   Linas Petkevičius, see [4].

   Karolis Petrauskas, see [11].

36. **Alfredas Račkauskas**, Functional Data Analysis in Financial Econometrics, *Forecasting Financial Markets and Economic Decision–Making–FindEcon 2016, May 19–20, 2016, University of Lodz, Poland.* (Invited lecture).

   Alfredas Račkauskas, see [32].

37. **Liutauras Ričkus, Romas Baronas,** Modelling biosensors utilizing allosteric enzyme activity, *59th scientific conference for students of physics and natural sciences: programme and abstracts,* p. 286.

38. **Audronė Rimkevičienė,** A discrete limit theorem for the periodic Hurwitz zeta-function. II, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 66.

39. Darius Šiaučiūnas, **Antanas Laurinčikas,** Renata Macaitienė, Distribution modulo 1 and universality of Dirichlet *L*-functions, *Международная научная конференция "XII Беларусская математическая конференция": материалы конференции. Ч. 5: Алгебра и теория чисел. Методика преподавания математики в высшей школе*, p. 61–62.

40. **Jonas Šiaulys,** A Lundberg-type inequality for an inhomogeneous renewal risk model, *The 10th Tartu conference on multivariate statistics, 28 June – 1 July 2016, Tartu, Estonia: abstracts*, p. 59.

41. **Jonas Šiaulys, Gediminas Stepanauskas**,The Poisson distribution in number theory, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

Jonas Šiaulys, see [9].

Jonas Šiaulys, see [33].

42. **Raivydas Šimėnas,** On the distribution of the *a*-values of the Selberg zeta-function, *5th International Conference on Uniform Distribution Theory, University of West Hungary, Sopron, Hungary, July 5–8, 2016.*

43. **Vilius Stakėnas**, The Cantor expansions and arithmetical functions, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

Gediminas Stepanauskas, see [41].

44. **Vytautas Stepas**, Variance of additive functions defined on random assemblies, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

45. **Artūras Štikonas, Gailė Paukštaitė,** The minimum norm least squares solution to the discrete nonlocal problems, *Numerical computations: theory and algorithms: book of abstracts of the 2nd international conference and summer school, Pizzo Calabro, Italy, 19–25 June 2016*, p. 156.

46. **Artūras Štikonas,** Agnė Skučaitė, Spectrum curves of diskrete Sturm–Liouville problem with integral condition, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 71.

Artūras Štikonas, see [34].

Artūras Štikonas, see [35].

47. **Olga Štikonienė,** Modeling of the non-Steady Navier-Stokes equations in thin structures, *Numerical computations: theory and algorithms: book of abstracts of the 2nd international conference and summer school, Pizzo Calabro, Italy, 19–25 June 2016*, p. 157.

48. **Mindaugas Stoncelis,** Darius Šiaučiūnas, A weighted universality theorem for the periodic zeta-function, *21st international conference Mathematical modelling and analysis, June 1–4, 2016 in Tartu, Estonia: conference programme and abstracts of MMA 2016* [published online], p. 72.

49. **Rokas Tamošiūnas**, Zeros and *a*-values of periodic zeta-functions, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

50. **Vytas Zacharovas**, On the exponential decay property of the characteristic function of the quicksort distribution, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

Antanas Žilinskas, see [22].

Antanas Žilinskas, see [23]

51. **Laura Žvinytė**, Discrete uniform limit laws for additive functions, *Analytic and Probabilistic Methods in Number Theory, The Sixth International Conference, Palanga, Lithuania, September 11–17, 2016.*

Research grants and awards

1. **Giedrius Alkauskas**, Structural functional equations: projective flows, transfer operators, Minkowski question mark function, and modular forms. MIP–072/2015. 2015–2018.

2. **Ramūnas Garunkštis**, Pirmos ir antros eilės dzeta funkcijų savybės. LMT Mokslininkų iniciatyva vykdomų mokslinių tyrimų projektas. MIP–049/2014. 2014–2016.

3. **Antanas Mitašiūnas**, E–documents for Europe. Research Council of Lithuania. No. TEC–03/2015. 2015–2016.

4. **Aistis Raudys**, Modeling investment portfolio using quantum chaos. Research Council of Lithuania. No. MIP–100/2015. 2015–2017.

5. **Rimantas Vaicekauskas**, Colour Restoration In Cultural Heritage Objects Using Solid-State Lighting. Research Council of Lithuania. No. MIP–096/2015. 2015–2017.

Patents

1. Artūras Žukauskas, **Rimantas Vaicekauskas**, Pranciškus Vitta, Arūnas Tuzikas, Akvilė Zabiliūtė, Andrius Petrulis. Solid-state sources of light for preferential colour rendition, *Patento ID: US 2016/0007422 A1*

2. Artūras Žukauskas, **Rimantas Vaicekauskas**, Pranciškus Vitta, Arūnas Tuzikas, Akvilė Zabiliūtė, Andrius Petrulis. Solid-state sources of light for preferential colour rendition, *Patento ID: 9,370,072.*

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.

4. **Aldona Skučaitė**, *Measurements of adequacy / financial sustainability of social security pension schemes.* Project is carried out by Social Security Committee of International Actuarial Association, 2016.

Research visits

1. **Mindaugas Bloznelis**. Queen Marry univesity of London, January, 11–25.

2. **Mindaugas Bloznelis.**Newton Institute Cambridge university, Cambridge UK, July 11–16.

3. **Mindaugas Bloznelis.** 6 th Polish combinatorial confrence, Bendlewo conference center, Poland, September 18–24.

4. **Paulius Drungilas** The 7th European Congress of Mathematics, Technical University of Berlin, July 18–22.

5. **Kristina Kaulakytė**. University of Zurich, Shwitzerland, February 1–5.

6. **Remigijus Leipus**. EMS Council Meeting, Berlin, July 16–17.

7. **Remigijus Leipus**. The 7th European Congress of Mathematics, Technical University of Berlin, July 18–22.

8. **Eugenijus Manstavičius**. The 7th European Congress of Mathematics, Technical University of Berlin, July 18–22.

9. **Martynas Manstavičius.** Vienna Congress on Mathematical Finance–VCMF 2016, September 12–14.

10. **Martynas Manstavičius.** VCMF Educational Workshop, Wirtschatfs Universität Wien, September 15–16.

11. **Martynas Manstavičius**. Salzburg Workshop on Dependence Models & Copulas, University of Salzburg, September 19–22.

12. **Gailė Paukštaitė**. Second Summer School on Harmonic Analysis and Partial Differential Equations, Spain, Bilbao, July 4-8.

13. **Konstantinas Pileckas.** International Conference, on PDE „Towards Regularity", Warshaw, Poland, September 06-10.

14. **Alfredas Račkauskas.** University of Rouen Normandy, October 16–22.

15. **Raivydas Šimėnas.** Research school on *L*-functions and Automorphic Forms, Heidelberg Uhiversity, Heidelberg, Germany, February 17–26.

16. **Aldona Skučaitė.** Participated in Council and Committee meetings of International Actuarial Association, Cape Town, South Africa, November 17–22.

17. **Gediminas Stepanauskas.** The 7th European Congress of Mathematics, Technical University of Berlin, July 18–22.

18. **Olga Štikonienė.** Saint-Etienne University, France, April 6–13.

19. **Olga Štikonienė**. International Conference, "NUMTA2016" (Numerical Compulations: Theory and Algorithms. The 2nd International Conference and Summer School June 19-25.

20. **Vytas Zacharovas.** Institute of Statistical Science, Academia Sinica, Taiwan, January 01–24.

21. **Vytas Zacharovas.** Institute of Statistical Science, Academia Sinica, Taiwan, December 20–31.

Foreign visitors

1. Davide Frazzetto, Aalborg University, Denmark.

2. Vikas Humbe, Teerth Marathwada University, India.

3. Alexey Kudin, Institute of Mathematics, Minsk, Belarus, November 21 2016.

4. Grigory Panasenko, University of Lyon/University of Saint–Etienne, France, Marz 29, 2016.

5. Katarzyna Rybarczyk, Adam Mickiewicz university of Poznan, November 9–15.

6. Laurynas Šikšnys, Aalborg University, Denmark.

7. Yunqing Tang, Harvard University, USA, June 6, 2016.

Name index

Number of articles included in Science Citation Index
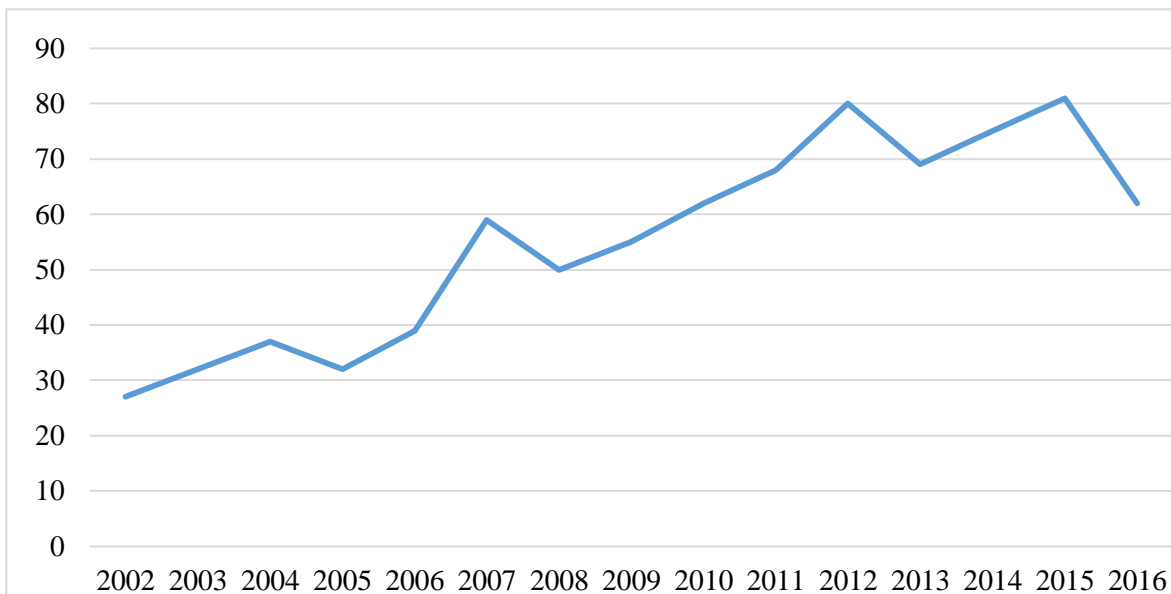
Number of publications in 2016 by departments
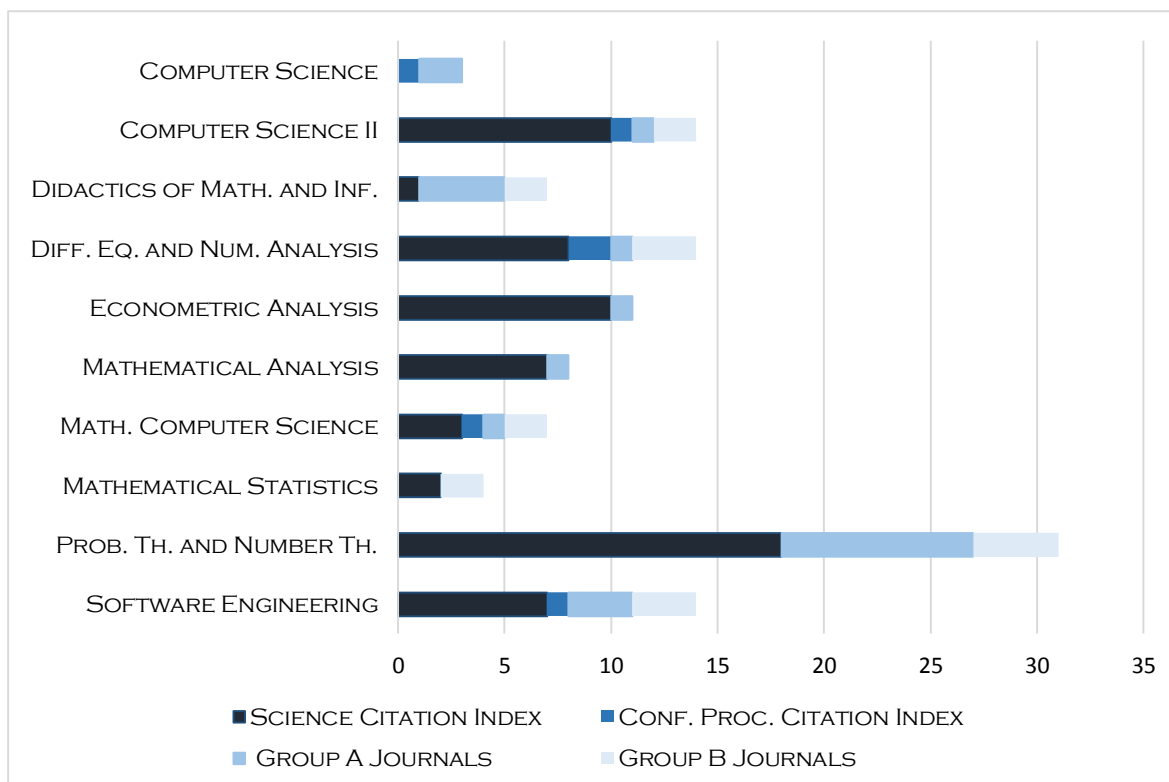
Publications Report 2016, compiled by Rima Stančikienė