

VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS
FAKULTETAS

VILNIUS UNIVERSITY
FACULTY OF MATHEMATICS
AND INFORMATICS

Research
and
Publications
Report
2009

Editor: V. Mackevičius

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FACULTY OF MATHEMATICS AND INFORMATICS

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DEPARTMENT OF MATHEMATICAL ANALYSIS*

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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.

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

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DEPARTMENT OF DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS

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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.

A. Ambrazevičius. Solvability of partial differential equations of parabolic type.

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

DEPARTMENT OF PROBABILITY THEORY AND NUMBER THEORY

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

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DEPARTMENT OF MATHEMATICAL STATISTICS

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

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

Publications. Journals with ISI SC Index – 5; Intern. reviewed journals, books, and ISI proceedings – 5; Lithuanian licensed issues – 3; Other journals and proceedings – 4.

DEPARTMENT OF COMPUTER SCIENCE

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

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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 modeling and visualization.

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Publications. Journals with ISI SC Index – 5; Intern. reviewed journals, books, and ISI proceedings – 1; Lithuanian licensed issues – 3; Other journals and proceedings – 2.

**DEPARTMENT OF DIDACTICS OF MATHEMATICS
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<http://www.mif.vu.lt/katedros/mmk/index.html>

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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.

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

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Publications. Journals with ISI SC Index – 0; Intern. reviewed journals, books, and ISI proceedings – 1; Lithuanian licensed issues – 4; Other journals and proceedings – 5.

DEPARTMENT OF COMPUTER SCIENCE II

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Head Prof. Feliksas Ivanauskas

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

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

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- S. Narkevičius.** Computer-aided geometric design. Subdivision surfaces. saulius.narkevicius@mif.vu.lt
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- Publications.* Journals with ISI SC Index – 10; Intern. reviewed journals, books, and ISI proceedings – 3; Lithuanian licensed issues – 8; Other journals and proceedings – 8.

DEPARTMENT OF SOFTWARE ENGINEERING

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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 modeling, information systems modeling, human–computer interaction, open queuing networks, message switching systems, computational modeling of physical–chemical processes, information security, electronic signature.

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DEPARTMENT OF ECONOMETRIC ANALYSIS

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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.

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

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D. Zuokas. Functional data analysis, text analytics. danas.zuokas@mif.vu.lt

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

DEPARTMENT OF MATHEMATICAL COMPUTER SCIENCE

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Publications. Journals with ISI SC Index – 1; Intern. reviewed journals, books, and ISI proceedings – 0; Lithuanian licensed issues – 4; Other journals and proceedings – 1.

DOCTORAL THESES

1. **G. Alkauskas.** Several problems from number theory. Advisor prof. **A. Laurinčikas.**
2. **V. Balinskaitė.** Discrete limit theorems for the Mellin transforms of the Riemann zeta-function. Advisor prof. **A. Laurinčikas.**
3. **D. Genienė.** Limit theorems for Lerch zeta-functions with algebraic irrational parameter. Advisor prof. **A. Laurinčikas.**
4. **I. Mitašiūnaitė.** Mining string data under similarity and soft-frequency constraints: Application to promoter sequence analysis. Advisor prof. Jean-François Boulicaut (Institut National des Sciences Appliquées de Lyon).
5. **T. Plankis.** Computer calculations for some sequences and polynomials. Advisor prof. **A. Dubickas.**
6. **M. Puida,** Computer modeling of structural innovations in biosensors. Advisor prof. **F. Ivanauskas.**

PUBLICATIONS

Abbreviations:

LMR *Lietuvos Matematikos Rinkinys*
LMJ *Lithuanian Mathematical Journal**

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10. **J. Kubilius**, M. Sapagovas, E. Gečiauskas (Eds.), Mathematical Thought in Lithuania, *MII*, Vilnius, 2009, 173 p.
11. **J. Kubilius**, Needed to regain its past – to the 430th Anniversary of Vilnius University, *Šiaurės Atėnai*, 2009, 11(933), 12(934), 13(935).
12. **J. Kubilius**, Foreword, In: V. Alekna, Gymnasium of Raseiniai, 1919–1949, *Petro ofsetas*, Vilnius, 2009.
13. **E. Stankus**, Application of Bernoulli formula, In: *For a Young Mathematician 10: Problems and Solutions of Lithuanian School of Young Mathematicians 2007–2009*, Danielius Publishing House, Vilnius, 2009, 75–86.
14. M. Stundžia (Ed.), I. Mackevičienė, **A. Elijo**, V. Trublenkovaitė, Report of Teaching and Learning International Survey TALIS 2008, *NEC*, Vilnius, 2009, 68 p.

Other lectures and reports

1. **M. Bloznelis**, Vertex degree distribution and component evolution of random intersection graphs, *Adam Mickiewicz University, Poznań, Poland, February 26, 2008*.
2. **K. Karčiauskas**, Lens-shaped surfaces in geometric modelling, *Darmstadt TU, Germany, Challenges in geometric modelling, CAD and simulation, March 12–13, 2009*.
3. **K. Karčiauskas**, Finite curvature continuous polav patchworks, *Mathematics of Surfaces XIII, York, UK, September 7–9, 2009*.
4. **R. Leipus**, Asymptotics of random sums for dependent random variables in the presence of heavy tails and its applications, *Nantes University, Nantes, France, November 11, 2009*.
5. **M. Manstavičius**, On the p -variation of LFSM, *Workshop “Fine Properties of Stochastic Processes”, Bielefeld University, Germany, November 30, 2009*.
6. **V. Paulauskas**, Beveridge-Nelson decomposition and limit theorems for linear processes and fields, *Karlsruhe University, Germany, April 23, 2009*.

SCIENTIFIC CONTACTS

Participation in international projects

1. **D. Celov, V. Čekanavičius, V. Kvedaras, V. Zemlys, D. Zuokas.** Project Development of Mathematical–Statistical Models of Lithuanian Economy (LEMASTA). Nr. C-06/2008, Reg. no. C-08025. Coordinator prof. **V. Čekanavičius**. 2008–2009.
2. **V. Čyras, K. Lapin, S. Dapkūnas, L. Savičienė, T. Plankis.** Development of an Innovative LIDAR Technology for New Generation ATM Paradigms (SKY-Scanner), July 2007–June 2010. EC Sixth Framework Programme, thematic priority 1.4 Aeronautics and Space, specific targeted research or innovation project. Workpackage 9 Aircraft Collision Probability and Decision Support Model Design and Development. 2007–2010.
3. **V. Čyras, K. Lapin.** VirtualLife, EU FP7 project “Secure, Trusted and Legally Ruled Collaboration Environment in Virtual Life”, DG InfSo, Theme 1.5 Networked Media, collaborative project - Small or medium scale focused research project (STREP), call FP7-ICT-2007-1. Coordinator NER-GAL S.r.l, Italy, Jan. 2008–Dec. 2010.
4. **V. Dagienė.** Member of scientific committee of 10th Koli calling International Conference on Computing Education Research.
5. **S. Dapkūnas, A. Mitašiūnas.** Tempus Project PERSEUS – Plan to Establish Research–Science–Enterprise oriented Universities for the Benefit of Society, TEMPUS 145171-2008-ES-SMHES, 2009–2011.
6. **V. Dagienė.** Member of the editorial board of the International Journal of Instruction (<http://www.e-iji.net>).
7. **A. Juozapavičius.** Baltic GRID-II. (EC, FP7. Contract No. 223807). 2008–2010.
8. **A. Juozapavičius.** CERN–Lithuania Collaboration Project. 2007–2011.
9. **R. Kašuba.** A representative of the international commission on mathematical instruction (ICMI). <http://www.mathunion.org/ICMI/>
10. **R. Krasauskas.** SAGA FP7: Programme “People”, Marie Curie Action “Initial Training Networks”. 2008–2012.
11. **R. Kudžma.** Member of program committee of the 10th International conference “Teaching Mathematics: Retrospective and Perspectives,” Tallinn University.
12. **A. Mitašiūnas.** Advisory Board member, author, and reviewer of worldwide project Enterprise SPICE with participation of 108 experts from 30 countries and 5 continents.
13. **A. Mitašiūnas.** Project leader of the Partner – Vilnius University in the Consortium of Grant Contract for the implementation of the project #007, Baltic Organization and Network of Innovation Transfer Associations, BONITA of the Baltic Sea Region Programme 2007–2013.

14. **A. Mitašiūnas.** Participates in the PERSEUS project as an international expert in cooperation between teaching and research, adapting university curricula to the needs of industry and business. The PERSEUS project aims to extend regional cooperation within higher education, research, and business. This can imply strengthening relations between teaching and research, adapting university curricula to the needs of industry and business, and/or having businesses heighten investment in research.
15. **A. Mitašiūnas.** Represents the department in the Informatics Europe – association of computer science departments of universities and research laboratories, public and private, in Europe and neighboring areas. The mission of Informatics Europe is to foster the development of quality research and teaching in information and computer sciences.
16. **A. Mitašiūnas.** Expert of Tempus IV Project “Plan to Establish Research-Science-Enterprise oriented Universities for the benefit of Society.”
17. **Š. Raudys, I. Žliobaitė, R. Kybartas, and V. Dičiūnas.** A joint investigation with National Key Laboratory for Novel Software Technology, Nanjing University (People Republic of China) in a research project “Simulation of risk and society security problems by analysis of sequences of chaotically changing rare almost catastrophic events.” 2008–2010.
18. **V. Tumasonis.** Taking part in Unicode Consortium for developing the Unicode Standard.

Visits by staff

1. **V. Bagdonavičius.** Victor Segalen University, Bordeaux 2, Bordeaux, France. Visiting professor.
2. **A. Bastys.** ICB 09 Conference, Italy. June 31–July 7.
3. **A. Bastys.** NIST Workshop on Biometric, USA, Washington DC. December 3–7.
4. **M. Bloznelis.** Research visits to Helsinki university, Finland. January 1–February 3, March 9–10, April 7–11, May 22–26, September 16–23, December 14–23.
5. **M. Bloznelis.** XIV Conference “Random structures and algorithms”, Poznan, Poland. August 2–8.
6. **M. Bloznelis.** Research visit to Bielefeld university, Germany. October 9–November 9.
7. **M. Bloznelis.** Workshop on Free Probability and Random Combinatorial Structures, Bielefeld university, Germany. December 1–11.
8. **V. Dagienė.** Erasmus staff training mobility programme at nonacademic organizations. CNOTIFOR – Centro de Novas Technologies de informacao, Coimbra, Portugal.
9. **V. Dagienė.** Erasmus Teaching programme. University of Applied Sciences, Havmeelina, Finland.

10. **R. Eidukevičius**, A course on Statistics with Computer was given for students of the Faculty of Natural Sciences, Padova University.
11. **R. Garunkštis**. Würzburg University, Germany, December 9–20.
12. **R. Kudžma**. Research visit at Agder University, Norway, March 21–April 4.
13. **R. Leipus**. Nantes University, France. November 15– December 05.
14. **E. Manstavičius**. Meeting of Presidents of National Mathematical Societies. International Banach Center of Mathematics, Warsaw. May 8–11.
15. **E. Manstavičius**. Colloquium dedicated to the 70th jubilee of Professor Wolfgang Schwarz. W. Göthe Universität, Frankfurt am Main. May 28–31.
16. **E. Manstavičius**. Brussels, EC, Expertise work in Mathematics and Engineering Panel. October 11–18.
17. **M. Manstavičius**. Talk "On the p -variation of LFSM", Bielefeld University, Germany. November 29–December 2.
18. **A. Račkauskas**. Lille University, France. December.
19. **G. Stepanauskas**. Check Republic (Ostrava), University Students Competition in Mathematics, Team leader. March 30–April 2.
20. **G. Stepanauskas**. MASSEE International Congress on Mathematics MICOM 2009, Macedonia (Ochrid). September 16–20.
21. **G. Stepanauskas**. Portugal (Lisbon), Dean 2009 Annual Conference. November 19–21.
22. **I. Žliobaitė**. Research visits to Helsinki University of Technology. January–April.
23. **I. Žliobaitė**. Eindhoven University of Technology. April–July.

Foreign visitors

1. Prof. J. F. Boulicaut. In charge of a research group in Data Mining (INSA Lyon, France) visited Vilnius University. A presentation of the main research interest, work, and results of his group at the faculty of Mathematics and Informatics of Vilnius. Especially, he presented the framework of the "Inductive Databases," which is a new Knowledge Data Discovery approach developed within two FP7 European projects. February 24–27.
2. Prof. Jorgen Drud Hansen. Aarhus University, Denmark, April 14–26.
3. Prof. Anne Philippe. Nantes University, France, April 6–25.
4. Prof. Marie-Claude Viano. Lille University, France, March 30 –April 11.
5. Ass. Prof. Tomasz Zadlo, Katowice University, Poland, May 10–15.

GRANTS, AWARDS

1. **G. Alkauskas, A. Javtokas, J. Karaliūnaitė, A. Laurinčikas.** Joint theorems for Analytic Arithmetical Objects. Lithuanian State Science and Studies Foundation grant. 2009.
2. **F. Ivanauskas.** Development of Bioelectrocatalysis for Synthesis and Analysis. 2008–2010 m.
3. **A. Juozapavičius.** GridTechno: Research and Implementation of Grid Applications Information Mobile Solutions. Lithuanian State Science and Studies Foundation grant. 2007–2009.
4. **A. Juozapavičius.** LitGRID: Parallel and Distributed Computation and e-Services Network. Financed by Ministry of Education and Science, investment program. 2007–2012.
5. **M. Manstavičius.** Lithuanian state stipend for scientists. 2009.

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