

## Publications of VU Institute of Mathematics and Informatics, 2017

**Report date:** 2018-01-23  
**Time period:** 2017-01-01 - 2017-12-31  
**Institution:** **Vilnius University** (enterprise code: 211950810)  
**Subdivisions:**

<b>Institute of Mathematics and Informatics (580000)</b>
580200 - <a href="#">Recognition processes department</a> → Global optimization group, Image and signal analysis group
580300 - <a href="#">Stochastic processes department</a> → Probability theory and statistics group
580400 - <a href="#">Informatics methodology department</a> → Education systems group
580500 - <a href="#">Software system engineering department</a> → Cybersocial system engineering group
580700 - <a href="#">System analysis department</a> → Cognitive computing group, Operation research group, Image and signal analysis group
581000 - <a href="#">Numerical analysis department</a> → Probability theory and statistics group
581200 - <a href="#">Probability theory and statistics department</a> → Probability theory and statistics group
581300 - <a href="#">Computer networks laboratory</a> → Cognitive computing group

Institution:	<b>Vilnius University</b>
I level subdivision:	<b>580000 - Institute of Mathematics and Informatics</b>
II level subdivision:	<b>580200 - Recognition processes department → Global optimization group &amp; Image and signal analysis group</b>
<b>1. ARTICLES</b>	
<b>1.1. Articles in publications of the main list of Information Science Institute (ISI)</b>	
1	Bugajev, Andrej; Čiegis, Raimondas; <b>Kriauzienė, Rima</b> ; Leonavičienė, Teresė; <b>Žilinskas, Julius</b> . On the accuracy of some absorbing boundary conditions for the Schrödinger equation // Mathematical modelling and analysis : the Baltic journal on mathematical applications, numerical analysis and differential equations. Vilnius : Taylor&Francis, VGTU. ISSN 1392-6292. eISSN 1648-3510. 2017, Vol. 22, iss. 3, p. 408-423. DOI: 10.3846/13926292.2017.1306725. [DB: Zentralblatt MATH (zbMATH); MatSciNet; INSPEC; ICONDA; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,300]
2	Čiegis, Raimondas; Starikovičius, Vadimas; Margenov, Svetozar; <b>Kriauzienė, Rima</b> . Parallel solvers for fractional power diffusion problems // Concurrency and computation: practice and experience. Chichester : John Wiley & Sons, Ltd. ISSN 1532-0626. eISSN 1532-0634. 2017, Vol. 29, iss. 24, p. 1-12. DOI: 10.1002/cpe.4216. [DB: Science Citation Index Expanded (Web of Science)] [Indėlis: 0,125]
3	Fernandez, Pascual; Pelegrin, Blas; <b>Lančinskas, Algirdas</b> ; <b>Žilinskas, Julius</b> . New heuristic algorithms for discrete competitive location problems with partially binary customer behavior // Computers & operations research. Kidlington : Pergamon-Elsevier Science. ISSN 0305-0548. 2017, Vol. 79, p. 12-18. DOI: 10.1016/j.cor.2016.10.002. [DB: Science Citation Index Expanded (Web of Science); Scopus; Compendex; CIS (Current Index to Statistics); Zentralblatt MATH (zbMATH); MatSciNet] [Indėlis: 0,500]
4	Filatovas, Ernestas; <b>Lančinskas, Algirdas</b> ; Kurasova, Olga; <b>Žilinskas, Julius</b> . A preference-based multi-objective evolutionary algorithm R-NSGA-II with stochastic local search // Central European journal of operations research. Heidelberg : Springer. ISSN 1435-246X. 2017, Vol. 25, no 4, p. 859-878. DOI: 10.1007/s10100-016-0443-x. [DB: Science Citation Index Expanded (Web of Science); Scopus; EconLit; Zentralblatt MATH (zbMATH)] [Indėlis: 0,500]
5	<b>Korvel, Gražina</b> ; Kostek, Bozena. Voiceless stop consonant modelling and synthesis framework based on MISO dynamic system // Archives of acoustics. Warszawa : Polish Academy of Sciences. ISSN 0137-5075. eISSN 2300-262X. 2017, Vol. 42, no 3, p. 375-383. DOI: 10.1515/aoa-2017-0039. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; Linguistic Bibliography; Zentralblatt MATH (zbMATH)] [Indėlis: 0,500]
6	<b>Lančinskas, Algirdas</b> ; Fernández, Pascual; Pelegrin, Blas; <b>Žilinskas, Julius</b> . Improving solution of discrete competitive facility location problems // Optimization letters. Heidelberg : Springer. ISSN 1862-4472. eISSN 1862-

4480. 2017, Vol. 11, no 2, p. 259-270. DOI: 10.1007/s11590-015-0930-3. [DB: Zentralblatt MATH (zbMATH); Scopus; Compendex; MathSciNet; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,500]

- 7 Mockus, Jonas; **Paulavičius, Remigijus**; Rusakevičius, Dainius; Šešok, Dmitrij; **Žilinskas, Julius**. Application of reduced-set Pareto-Lipschitzian optimization to truss optimization // Journal of global optimization. New York : Springer New York LLC. ISSN 1573-2916. eISSN 1573-2916. 2017, Vol. 67, iss. 1-2, SI, p. 425-450. DOI: 10.1007/s10898-015-0364-6. [DB: Conference Proceedings Citation Index - Science (Web of Science); Science Citation Index Expanded (Web of Science); Current Abstracts; TOC Premier] [Indėlis: 0,400]

[Contribution in the group: 2,825]

## 1.2. Articles in publications reviewed in other databases of Information Science Institute (ISI) [Proceedings, etc.]

- 1 **Greibus, Mindaugas; Ringelienė, Živilė; Telksnys, Adolfas Laimutis**. The phoneme set influence for Lithuanian speech commands recognition accuracy // Electrical, electronic and information sciences (eStream): 2017 open conference : proceedings of the conference, April 27, 2017, Vilnius, Lithuania / Vilnius Gediminas Technical University. New York : IEEE, 2017. ISBN 9781538639993. eISBN 9781538639986. [4 p]. DOI: 10.1109/eStream.2017.7950321. [DB: IEEE Xplore; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 1,000]
- 2 **Pupeikis, Rimantas**. Adaptive joint tracking of nonstationary system unknown parameters including the time delay // 2017 Open Conference of Electrical, Electronic and Information Sciences (eStream) : proceedings of the conference, April 27, 2017, Vilnius, Lithuania / Vilnius Gediminas Technical University. New York : IEEE, 2017. ISBN 9781538639993. eISBN 9781538639986. p. 1-6. DOI: 10.1109/eStream.2017.7950314. [DB: Conference Proceedings Citation Index - Science (Web of Science); IEEE Xplore] [Indėlis: 0,500]
- 3 Krasauskas, Žygimantas; **Telksnys, Adolfas Laimutis**. Ubiquitous personal heart rate long distance transmission to the treatment centers based on smart mobile phone application // Advances in Information, Electronic and Electrical Engineering (AIEEE) : Proceedings of the 2015 IEEE 3rd workshop : November 13–14, 2015, Riga, Latvia. New York : IEEE, 2015. ISBN 9781509012015. [4 p]. DOI: 10.1109/AIEEE.2015.7367297. [DB: IEEE Xplore; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 0,250]

[Contribution in the group: 1,750]

## 1.4. Articles in other reviewed scientific publications

### 1.4.1. In Lithuanian scientific publications

- 1 **Pupeikis, Rimantas**. Adaptive joint tracking approach of system parameters and the time delay = Adaptyvusis jungtinis sistemos parametrų ir vėlavimo sekimo metodas // Lietuvos matematikos rinkinys. Ser. A. Vilnius : Matematikos ir informatikos institutas. ISSN 0132-2818. eISSN 2335-898X. 2017, T. 58, p. 34-39. DOI: 10.15388/LMR.A.2017.07. [Indėlis: 1,000]
- 2 **Telksnys, Adolfas Laimutis**. Rašytinė ir sakytinė lietuvių kalba įprastoje ir elektroninėje terpėse = Written and spoken Lithuanian language in paper and electronic space // Bendrinė kalba [elektroninis išteklius]. Vilnius : Lietuvių kalbos institutas. ISSN 2351-7204. 2017, T. 90, [5 p.]. Prieiga per internetą: <[http://www.bendrinekalba.lt/Straipsniai/90/Telksnys\\_BK\\_90\\_straipsnis.pdf](http://www.bendrinekalba.lt/Straipsniai/90/Telksnys_BK_90_straipsnis.pdf)> [žiūrėta 2018-01-18]. [Indėlis: 1,000]

### 1.4.2. In conference proceedings

- 1 Antipovas, Andrius; **Telksnys, Adolfas Laimutis**. Šneka valdomas interneto naujienų skaitytuvas = Voice - controlled Internet News Reader // Informacinės technologijos 2015 : 20-oji tarpuniversitetinė magistrantų ir doktorantų konferencija : konferencijos pranešimų medžiaga. Kaunas : Technologija. ISSN 2029-249X. 2015, p. 151-154. [Indėlis: 0,250]
- 2 Puzeris, Eimantas; **Telksnys, Adolfas Laimutis**. Laisvai ir netrukdomai gyvenančių, bet kur esančių žmonių širdies ritmo variabilumo stebėsenos dėvima sistema - ritmometras = Ubiquitous personal heart rate variability monitoring wearable system - ritmometras // Informacinės technologijos 2015 : 20-oji tarpuniversitetinė magistrantų ir doktorantų konferencija : konferencijos pranešimų medžiaga. Kaunas : Technologija. ISSN 2029-249X. 2015, p. 51-54. [Indėlis: 0,250]

[Contribution in the group: 0,500]

## 2. MONOGRAPHS

- 1 Pardalos, Panos M.; Žilinskas, Antanas; **Žilinskas, Julius**. Non-Convex Multi-Objective Optimization. Cham : Springer Nature, 2017. 204 p. ISBN 9783319610054. DOI: 10.1007/978-3-319-61007-8. [Indėlis: 0,333]
- 2 **Pupeikis, Rimantas**. Reinforced methods for dynamical system identification and adaptive control. Aachen : Shaker Verlag, 2017. 190 p. ISBN 9783844052183. [Indėlis: 1,000]

[Contribution in the group: 1,333]

## OTHER PUBLICATIONS

- 1 Čiegis, Raimondas; Starikovičius, Vadimas; Margenov, Svetozar; **Kriauzienė, Rima**. A comparison of accuracy and efficiency of parallel solvers for fractional power diffusion problems // PPAM 2017: 12th International Conference on Parallel Processing and Applied Mathematics, September 10-13, 2017, Lublin, Poland : book of abstracts. Czestochowa : Czestochowa University of Technology. 2017, p. 99. Prieiga per internetą: <<https://ppam.pl/>>. [Indėlis: 0,125]
- 2 **Čiegis, Raimondas; Starikovičius, Vadimas; Margenov, Svetozar; Kriauzienė, Rima**. Lygiagrečių skaitinių algoritmų, skirtų uždaviniams su elipsiniais operatoriais, pakeltais trupmeniniu laipsniu, analizė // Fizinių ir technologijos mokslų tarpdalykiniai tyrimai : 7-oji jaunųjų mokslininkų konferencija, 2017 m. vasario 9 d. : pranešimų santraukos. Vilnius : Lietuvos mokslų akademijos leidykla. 2017, p. 56-57. Prieiga per internetą: <[http://mail.ma.lt/components/com\\_rseventspro/assets/images/files/2017-02-09\\_JMK\\_pranesimu\\_santraukos\\_galutines.pdf](http://mail.ma.lt/components/com_rseventspro/assets/images/files/2017-02-09_JMK_pranesimu_santraukos_galutines.pdf)> [žiūrėta 2017-07-03]. [Indėlis: 1,000]
- 3 Karbauskaitė, Rasa; **Tamulevičius, Gintautas**. Fractal dimensions of speech signals // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 24-25. Prieiga per internetą: <[http://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](http://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-18]. [Indėlis: 0,500]
- 4 **Korvel, Gražina; Treigys, Povilas; Tamulevičius, Gintautas**. An initial investigation of keyword spotting using convolutional neural network // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 27. Prieiga per internetą: <[https://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-12]. [Indėlis: 0,667]
- 5 **Liogienė, Tatjana**. Hierarchical classification of speech emotions = Hierarchinis šnekos emocijų klasifikavimas / Tatjana Liogienė. Vilnius : Vilniaus universiteto leidykla, 2017. 35 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24202264/datastreams/MAIN/content>> [žiūrėta 2017-10-05]. [Indėlis: 1,000]
- 6 **Liogienė, Tatjana**. Hierarchinis šnekos emocijų klasifikavimas = Hierarchical classification of speech emotions / Tatjana Liogienė. Vilnius : Vilniaus universiteto leidykla, 2017. 100 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24202361/datastreams/MAIN/content>> [žiūrėta 2017-10-05]. [Indėlis: 1,000]
- 7 Starikovičius, Vadimas; Čiegis, Raimondas; Margenov, Svetozar; **Kriauzienė, Rima**. Parallel algorithms for the numerical solution of problems with fractional powers of elliptic operators // Mathematical Modelling and Analysis [MMA2017] : 22nd international conference, May 30-June 2, 2017, Druskininkai, Lithuania : abstracts. Vilnius : Technika, 2017. ISBN 9786094760228. eISBN 9786094760211. p. 64-65. Prieiga per internetą: <[http://inga.vgtu.lt/~art/konf/abstracts\\_2017.pdf](http://inga.vgtu.lt/~art/konf/abstracts_2017.pdf)>. [Indėlis: 0,125]
- 8 **Žilinskas, Julius (red.)**. Journal of Global Optimization. 2017, Volume 69, Issue 3 : Special Issue: EURO-2015 / Issue editors: Julius Žilinskas. New York : Springer New York LLC, 2017. 235 p. Prieiga per internetą: <<https://link.springer.com/journal/10898/69/3/page/1>> [žiūrėta 2017-11-03]. [Indėlis: 1,000]

[Contribution in the group: 4,917]

Institution: **Vilnius University**

I level subdivision: **580000 - Institute of Mathematics and Informatics**

II level subdivision: **580300 - Stochastic processes department → Probability theory and statistics group**

## 1. ARTICLES

### 1.1. Articles in publications of the main list of Information Science Institute (ISI)

- 1 **Pilipauskaitė, Vytautė; Surgailis, Donatas**. Scaling transition for nonlinear random fields with long-range dependence // Stochastic processes and their applications. Amsterdam : Elsevier BV \* North-Holland. ISSN 0304-4149. 2017, Vol. 127, Iss. 8, p. 2751-2779. DOI: 10.1016/j.spa.2016.12.011. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; Compendex; CAB Abstracts; MatSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 0,833]

[Contribution in the group: 0,833]

## OTHER PUBLICATIONS

- 1 **Grublytė, Ieva.** Modelling of nonlinear long memory = Netiesiniai ilgų atminties modeliai. Vilnius : Vilniaus universitetas, 2017. 125 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24527757/datastreams/MAIN/content>> [žiūrėta 2017-10-31]. [Indėlis: 1,000]
  - 2 **Grublytė, Ieva.** Netiesiniai ilgų atminties modeliai = Modelling of nonlinear long memory. Vilnius : Vilniaus universitetas, 2017. 25 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24527620/datastreams/MAIN/content>> [žiūrėta 2017-10-31]. [Indėlis: 1,000]
  - 3 **Pilipauskaitė, Vytautė.** Limit theorems for spatio-temporal models with long-range dependence = Ribinės teoremos erdvės ir laiko modeliams su ilgąja atmintimi / Vytautė Pilipauskaitė. Vilnius : Vilniaus universiteto leidykla, 2017. 169 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24502685/datastreams/MAIN/content>> [žiūrėta 2017-10-27]. [Indėlis: 1,000]
  - 4 **Pilipauskaitė, Vytautė.** Ribinės teoremos erdvės ir laiko modeliams su ilgąja atmintimi = Limit theorems for spatio-temporal models with long-range dependence / Vytautė Pilipauskaitė. Vilnius : Vilniaus universiteto leidykla, 2017. 29 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24502947/datastreams/MAIN/content>> [žiūrėta 2017-10-27]. [Indėlis: 1,000]
  - 5 **Škarnulis, Andrius.** Kvadratiniai ilgų atminties ARCH modeliai ir parametrų vertinimas kvazididžiausio tikėtinumo metodu = Quadratic ARCH models with long memory and QML estimation / Andrius Škarnulis. Vilnius : Vilniaus universiteto leidykla, 2017. 32 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:22468249/datastreams/MAIN/content>> [žiūrėta 2017-05-19]. [Indėlis: 1,000]
  - 6 **Škarnulis, Andrius.** Quadratic ARCH models with long memory and QML estimation = Kvadratiniai ilgų atminties ARCH modeliai ir parametrų vertinimas kvazididžiausio tikėtinumo metodu / Andrius Škarnulis. Vilnius : Vilniaus universiteto leidykla, 2017. 162 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:22467247/datastreams/MAIN/content>> [žiūrėta 2017-05-19]. [Indėlis: 1,000]
- [Contribution in the group: 6,000]

Institution:	<b>Vilnius University</b>
I level subdivision:	<b>580000 - Institute of Mathematics and Informatics</b>
II level subdivision:	<b>580400 - Informatics methodology department → Education systems group</b>
<b>1. ARTICLES</b>	
<b>1.1. Articles in publications of the main list of Information Science Institute (ISI)</b>	
1	<b>Benaya, Tamar; Zur, Ela; Dagienė, Valentina; Stupurienė, Gabrielė.</b> Computer science high school curriculum in Israel and Lithuania - comparison and teachers' views // Baltic journal of modern computing. Riga : Latvijas Universitate. ISSN 2255-8942. eISSN 2255-8950. 2017, Vol. 5, No. 2, p. 164-182. Prieiga per internetą: < <a href="http://www.bjmc.lu.lv/fileadmin/user_upload/lu_portal/projekti/bjmc/Contents/5_2_02_Benaya.pdf">http://www.bjmc.lu.lv/fileadmin/user_upload/lu_portal/projekti/bjmc/Contents/5_2_02_Benaya.pdf</a> > [žiūrėta 2017-05-10]. [DB: J-Gate; Emerging Sources Citation Index (Web of Science)] [Indėlis: 0,500]
2	<b>Dagienė, Valentina; Sentance, Sue; Stupurienė, Gabrielė.</b> Developing a two-dimensional categorization system for educational tasks in informatics // Informatica. Vilnius : Matematikos ir informatikos institutas. ISSN 0868-4952. 2017, Vol. 28, no 1, p. 23-44. Prieiga per internetą: < <a href="https://www.mii.lt/informatica/pdf/INFO1127.pdf">https://www.mii.lt/informatica/pdf/INFO1127.pdf</a> > [žiūrėta 2017-04-10]. [DB: Science Citation Index Expanded (Web of Science); Scopus; INSPEC; Zentralblatt MATH (zbMATH); MatSciNet] [Indėlis: 0,667]
3	<b>Dagienė, Valentina; Stupurienė, Gabrielė; Vinikienė, Lina.</b> Implementation of dynamic tasks on Informatics and Computational Thinking // Baltic journal of modern computing. Riga : Latvijas Universitate. ISSN 2255-8942. eISSN 2255-8950. 2017, Vol. 5, No. 3, p. 306-316. DOI: 10.22364/bjmc.2017.5.3.05. [DB: DOAJ; J-Gate; Emerging Sources Citation Index (Web of Science)] [Indėlis: 1,000]
4	<b>Izu, Cruz; Mirolo, Claudio; Settle, Amber; Mannila, Linda; Stupurienė, Gabrielė.</b> Exploring Bebras tasks content and performance: a multinational study // Informatics in education. Vilnius : Matematikos ir informatikos institutas. ISSN 1648-5831. eISSN 2335-8971. 2017, Vol. 16, No. 1, p. 39-59. Prieiga per internetą: < <a href="https://www.mii.lt/informatics_in_education/pdf/infedu.2017.03.pdf">https://www.mii.lt/informatics_in_education/pdf/infedu.2017.03.pdf</a> > [žiūrėta 2017-05-16]. [DB: MathEduc Database; INSPEC; Scopus; CEEOL – Central and Eastern European Online Library; Emerging Sources Citation Index (Web of Science)] [Indėlis: 0,200]
5	<b>Jevsikova, Tatjana; Berniukevičius, Andrius; Kurilov, Jevgenij.</b> Application of Resource Description Framework to personalise learning: systematic review and methodology // Informatics in education. Vilnius : Vilniaus universiteto Matematikos ir informatikos institutas. ISSN 1648-5831. eISSN 2335-8971. 2017, Vol. 16, no. 1, p. 61-82. DOI: 10.15388/infedu.2017.04. [DB: Emerging Sources Citation Index (Web of Science)] [Indėlis: 0,833]

- 6 **Kubilinskienė, Svetlana; Žilinskienė, Inga; Dagienė, Valentina; Sinkevičius, Vytenis.** Applying robotics in school education: a systematic review // *Baltic journal of modern computing*. Riga : University of Latvia. ISSN 2255-8942. eISSN 2255-8950. 2017, vol. 5, iss. 1, p. 50-69. DOI: 10.22364/bjmc.2017.5.1.04. [DB: DOAJ; Academic Search Research & Development; Emerging Sources Citation Index (Web of Science)] [Indėlis: 0,375]
- 7 Ramanauskas, Mikalojus; Šešok, Dmitrij; Belevičius, Rimantas; **Kurilov, Jevgenij**; Valentinavičius, Saulius. Genetic algorithm with modified crossover for grillage optimization // *International journal of computers, communications and control*. Bihor : CCC Publications. ISSN 1841-9836. eISSN 1841-9844. 2017, Vol. 12, no 3, p. 393-402. DOI: 10.15837/ijccc.2017.3.2813. [DB: Science Citation Index Expanded (Web of Science); Scopus; Applied Science & Technology Source; Computers & Applied Sciences Complete] [Indėlis: 0,100]

[Contribution in the group: 3,675]

## 1.2. Articles in publications reviewed in other databases of Information Science Institute (ISI) [Proceedings, etc.]

- 1 **Dagienė, Valentina; Stupurienė, Gabrielė; Vinikienė, Lina.** Informatics based tasks development in the Bebras contest management system // *Information and software technologies : 23rd international conference, ICIST 2017, Druskininkai, October 12-14, 2017 : proceedings / editors: Robertas Damaševičius, Vilma Mikašytė . - Book series : Communications in Computer and Information Science. Vol 756. ISSN 1865-0929, eISSN 1865-0937. Cham : Springer, 2017. ISBN 9783319676418. eISBN 9783319676425. p. 466-477. DOI: 10.1007/978-3-319-67642-5\_39. [DB: Scopus; SpringerLink; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 1,000]*
- 2 **Dagienė, Valentina; Stupurienė, Gabrielė; Vinikienė, Lina; Žakauskas, Rimantas.** Introduction to Bebras challenge management: overview and analyses of developed systems // *Informatics in Schools: Focus on Learning Programming : 10th International Conference on Informatics in Schools: Situation, Evolution, and Perspectives, ISSEP 2017, Helsinki, Finland, November 13-15, 2017: proceedings / eds. : Valentina Dagienė, Arto Hellas. Series : Lecture Notes in Computer Science. Vol. 10696. ISSN 0302-9743. Cham : Springer International Publishing, 2017. ISBN 9783319714837. p. 232-243. [DB: SpringerLink; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 1,000]*
- 3 **Juškevičienė, Anita; Kurilovas, Eugenijus.** On linking problem-based learning activities and students' learning styles in personalised learning // *Proceedings of the 16th European Conference on e-Learning (ECEL 2017). Book Series: Proceedings on the European Conference of e-Learning. ISSN: 2049-100X. Reading : Academic Conferences and Publishing International, 2017. ISBN 9781911218593. eISBN 9781911218609. p. 238-246. [DB: Scopus; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 0,500]*
- 4 Kurilova, Julija; Minkevičius, Saulius; **Kurilov, Jevgenij.** On personalised learning scenarios evaluation model // *INTED 2017 [elektroninis išteklis] : 11th international technology, education and development conference, 6-8 March, 2017, Valencia, Spain : conference proceedings. Valencia : IATED Academy, 2017. ISBN 9788461784912. p. 2239-2249. DOI: 10.21125/inted.2017.0650. [DB: Conference Proceedings Citation Index - Science (Web of Science); IATED digital library] [Indėlis: 0,167]*
- 5 Kurilova, Julija; Minkevičius, Saulius; **Kurilov, Jevgenij.** On personalised learning units evaluation methodology // *Information and software technologies : 23rd international conference, ICIST 2017, Druskininkai, October 12-14, 2017 : proceedings / editors: Robertas Damaševičius, Vilma Mikašytė . - Book series : Communications in Computer and Information Science. Vol 756. ISSN 1865-0929, eISSN 1865-0937. Cham : Springer, 2017. ISBN 9783319676418. eISBN 9783319676425. p. 487-498. Prieiga per internetą: <[https://link.springer.com/chapter/10.1007/978-3-319-67642-5\\_41](https://link.springer.com/chapter/10.1007/978-3-319-67642-5_41)> [žiūrėta 2017-11-09]. [DB: SpringerLink; Scopus; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 0,333]*
- 6 Pears, Arnold; **Dagienė, Valentina; Jasutė, Eglė.** Baltic and Nordic K-12 teacher perspectives on computational thinking and computing // *Informatics in Schools: Focus on Learning Programming : 10th International Conference on Informatics in Schools: Situation, Evolution, and Perspectives, ISSEP 2017, Helsinki, Finland, November 13-15, 2017: proceedings / eds. : Valentina Dagienė, Arto Hellas. Series : Lecture Notes in Computer Science. Vol. 10696. ISSN 0302-9743. Cham : Springer International Publishing, 2017. ISBN 9783319714837. [p. 1-12]. [DB: Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 0,666]*
- 7 Souto O. Araujo, Ana Liz; Santos, Jucelio S.; Andrade, Wilkerson L.; Serey Guerrero, Dalton D.; **Dagienė, Valentina.** Exploring computational thinking assessment in introductory programming courses // *2017 IEEE Frontiers in Education Conference Proceedings, October 18-21, 2017, Indianapolis, Indiana, USA. Piscataway : Institute of Electrical and Electronics Engineers (IEEE), 2017. ISBN 9781509059195. p. 93-101. [DB: Conference Proceedings Citation Index - Science (Web of Science); IEEE Xplore] [Indėlis: 0,200]*

[Contribution in the group: 3,866]

## 1.4. Articles in other reviewed scientific publications

### 1.4.2. In conference proceedings

- 1 **Gudonienė, Daina**; Rutkauskienė, Danguolė; **Dagienė, Valentina**. Search, exchange and design of learning objects in learning objects repositories // Smart education and e-learning 2017 : international conference, Vilamoura, Algarve, Portugal, June 21–23, 2017 : Conference proceedings / editors: Vladimir L. Uskov, Robert J. Howlett, Lakhmi C. Jain. B. Cham : Springer, 2017. ISBN 9783319594507. eISBN 9783319594514. p. 330-338. DOI: 10.1007/978-3-319-59451-4\_33. [DB: SpringerLink] [Indėlis: 0,500]
- 2 **Kurilov, Jevgenij**. Application of artificial neural networks to support personalised learning. Valenica : IATED. ISSN 2340-1117. 2017, p. 141-148. DOI: 10.21125/edulearn.2017.1033. [DB: IATED digital library] [Indėlis: 0,500]
- 3 **Kurilov, Jevgenij**; Kurilova, Julija; **Dvareckienė, Viktorija**. On linking social media, learning styles, and Augmented Reality in education // ECSM 2017 : Proceedings of the 4th European Conference on Social Media. Mykolas Romeris University, Vilnius, Lithuania, 3-4 July 2017. Reading : Academic Conferences and Publishing International Limited, 2017. ISBN 9781911218463. eISBN 9781911218470. p. 178-185. Prieiga per internetą: <http://tinyurl.com/ecsm2017> [žiūrėta 2017-07-27]. [Indėlis: 0,500]
- 4 **Kurilov, Jevgenij**; Kurilova, Julija. Intelektuali ateities mokykla: kas yra optimali mokymosi strategija? // Geros mokyklos koncepcijos įgyvendinimas matematikos ir informacinių technologijų pamokose: kaip sekasi, kolegos?“ : 14-osios matematikos ir informacinių technologijų mokytojų respublikinės mokslinės - metodinės konferencijos straipsnių rinkinys / sudarytojai Daiva Bukelytė, Rima Ernestienė, Vincas Tamašauskas. Vilnius : Litera, 2017. ISBN 9786098144505. p. 61-63. [Indėlis: 0,500]
- 5 **Kurilov, Jevgenij**; Mamčenko, Jelena; **Krikun, Irina**. Learning personalisation in virtual learning environments applying learning analytics // EDULEARN 17: 9th International Conference on Education and New Learning Technologies Barcelona, Spain. 3-5 July, 2017 : Conference Proceedings. Valenica : IATED. ISSN 2340-1117. 2017, p. 10180-10188. DOI: 10.21125/edulearn.2017.0928. [DB: IATED digital library] [Indėlis: 0,500]
- 6 Palts, T.; Pedaste, M.; Vene, V.; **Vinikienė, Lina**. Tasks for assessing skills of computational thinking // ICERI2017 : 10th annual international conference of education, research and innovation, 16-18 November, 2017, Seville, Spain : conference proceedings. Seville : IATED Academy, 2017. ISBN 9788469769577. p. 2750-2759. DOI: 10.21125/iceri.2017.0784. [DB: IATED digital library] [Indėlis: 0,250]

#### 1.4.3. Articles in other periodical publications, onetime collections of papers, etc.

- 1 **Kurilov, Jevgenij**. Future school: personalization plus intelligence // Information technology integration for socio-economic development / ed.: Titus Tossy. Hershey PA : IGI Global, 2017. ISBN 9781522505396. eISBN 9781522505402. p. 1-31. DOI: 10.4018/978-1-5225-0539-6.ch001. [Indėlis: 0,500]

[Contribution in the group: 0,500]

#### OTHER PUBLICATIONS

- 1 **Dagienė, Valentina**; **Gudonienė, Daina**; Rutkauskienė, Danguolė; Bartkutė, Reda. The integrated environment for learning objects design and storing in semantic web // Kompiuterininkų dienos - 2017. Vilnius : Lietuvos kompiuterininkų sąjunga, 2017. ISBN 9789986343264. p. 21. Prieiga per internetą: <https://www.likis.lt/kodi2017/KoDi2017-leidinys(el-versija).pdf> [žiūrėta 2017-11-09]. [Indėlis: 0,375]

[Contribution in the group: 0,375]

Institution: **Vilnius University**

I level subdivision: **580000 - Institute of Mathematics and Informatics**

II level subdivision: **580500 - Software system engineering department → Cybersocial system engineering group**

#### 1. ARTICLES

##### 1.1. Articles in publications of the main list of Information Science Institute (ISI)

- 1 **Jukna, Stasys**. Minkowski complexity of sets: an easy lower bound // American mathematical monthly. Washington : Mathematical association of America. ISSN 0002-9890. eISSN 1930-0972. 2017, Vol. 124, no 8, p. 749-753. DOI: 10.4169/amer.math.monthly.124.8.749. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; MathSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 1,000]
- 2 Micevičiūtė, Eglė; Butleris, Rimantas; **Gudas, Saulius**; Karčiauskas, Eimutis. Transforming BPMN 2.0 business process model into SBVR business vocabulary and rules // Information technology and control = Informacinės technologijos ir valdymas. Kaunas : Technologija. ISSN 1392-124X. eISSN 2335-884X. 2017, vol. 46, iss. 3, p. 360-371. DOI: 10.5755/j01.itc.46.3.18520. [DB: INSPEC; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,250]

- 3 **Šaikūnas, Audrius.** Critical analysis of extensible parsing tools and techniques // Baltic journal of modern computing. Riga : University of Latvia. ISSN 2255-8942. eISSN 2255-8950. 2017, Vol. 5, Iss. 1, p. 136-145. DOI: 10.22364/bjmc.2017.5.1.09. [DB: DOAJ; J-Gate; Emerging Sources Citation Index (Web of Science)] [Indėlis: 1,000]
- 4 Savickas, Titas; **Vasilecas, Olegas.** Decision support using belief network constructed from business process event log // Informatica. Vilnius : Institute of Mathematics and Informatics. ISSN 0868-4952. eISSN 1822-8844. 2017, Vol. 28, no 4, p. 583-598. Prieiga per internetą: <<https://www.mii.lt/informatica/htm/INFO1157.htm>> [žiūrėta 2017-11-15]. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; INSPEC; Zentralblatt MATH (zbMATH)] [Indėlis: 0,250]

[Contribution in the group: 2,500]

#### 1.4. Articles in other reviewed scientific publications

##### 1.4.1. In Lithuanian scientific publications

- 1 **Alonderis, Romas.** Brodsky's coding method for propositional logic // Lietuvos matematikos rinkinys. Vilnius : Matematikos ir informatikos institutas. ISSN 0132-2818. eISSN 2335-898X. 2017, T. 58, p. 1-6. Prieiga per internetą: <<https://www.mii.lt/LMR/A/2017/58A01.pdf>> [žiūrėta 2018-01-04]. [Indėlis: 1,000]
- 2 **Savukynas, Raimundas;** Marcinkevičius, Virginijus. Daiktų interneto objektų identifikavimo metodų palyginimas = A comparison of the identification methods of objects of the Internet of Things // Informacijos mokslai. Vilnius : Vilniaus universiteto leidykla. ISSN 1392-0561. 2017, T. 78, p. 66-82. DOI: 10.15388/Im.2017.78.10835. [DB: CEEOL – Central and Eastern European Online Library; LISA: Library and Information Science Abstracts] [Indėlis: 0,500]

##### 1.4.2. In conference proceedings

- 1 Jusis, Mindaugas; Eglynas, Tomas; Senulis, Audrius; **Gudas, Saulius;** Jakovlev, Sergej; Bogdevičius, Marijonas. Pietryčių Baltijos konteinerių terminalų apžvalga ir krovos tendencijos // Jūros ir krantų tyrimai 2017 : 10-oji nacionalinė jūros mokslų ir technologijų konferencija : konferencijos medžiaga : 2017 balandžio 26-28 d. [Klaipėda] : [Klaipėdos universiteto leidykla]. ISSN 2538-7243. 2017, p. 86-90. [Indėlis: 0,166]
- 2 **Šaikūnas, Audrius.** Parsing with earley virtual machines // Communication Papers of the 2017 Federated Conference on Computer Science and Information Systems, September 3–6, 2017, Prague, Czech Republic. - Ser.: Annals of Computer Science and Information Systems. Vol. 13. ISSN: 2300-5963 / Maria Ganzha, Leszek Maciaszek, Marcin Paprzycki (eds.). Gdańsk : Polish Information Processing Society, 2017. ISBN 9788392264637. eISBN 9788392264620. p. 165-173. DOI: 10.15439/2017F162. [DB: IEEE Xplore] [Indėlis: 1,000]

[Contribution in the group: 1,166]

#### OTHER PUBLICATIONS

- 1 **Maskeliūnas, Saulius.** Lietuvos kompiuterininkų sąjunga 2015-2017 metais // Kompiuterininkų dienos - 2017. Vilnius : Lietuvos kompiuterininkų sąjunga, 2017. ISBN 9789986343264. p. 9-15. Prieiga per internetą: <[https://www.liko.lt/kodi2017/KoDi2017-leidinys\(el-versija\).pdf](https://www.liko.lt/kodi2017/KoDi2017-leidinys(el-versija).pdf)> [žiūrėta 2017-11-20]. [Indėlis: 1,000]
- 2 **Miliauskaitė, Jolanta; Paliulionienė, Laima.** Evolution of the notions of algorithm and computation: a systematic mapping study // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 34. DOI: 10.15388/DAMSS.2017. [Indėlis: 1,000]
- 3 **Mičiulytė, Ieva; Vasilecas, Olegas.** Research of context influence on business process modelling and simulation // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 32-33. Prieiga per internetą: <[https://www.mii.lt/datamss/files/liko\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/liko_mii_drusk_2017.pdf)> [žiūrėta 2017-12-11]. [Indėlis: 0,750]
- 4 **Žulkas, Evaldas.** Development of energy consumption forecasting and autonomous management system in smart house environment = Energijos sąnaudų prognozavimo ir autonominio valdymo sistemos išvystymas išmaniojo būsto aplinkoje / Evaldas Žulkas. Vilnius : Vilniaus universiteto leidykla, 2017. 42 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24195923/datastreams/MAIN/content>> [žiūrėta 2017-10-04]. [Indėlis: 1,000]
- 5 **Žulkas, Evaldas.** Energijos sąnaudų prognozavimo ir autonominio valdymo sistemos išvystymas išmaniojo būsto aplinkoje = Development of energy consumption forecasting and autonomous management system in smart house environment / Evaldas Žulkas. Vilnius : Vilniaus universiteto leidykla, 2017. 158 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24195853/datastreams/MAIN/content>> [žiūrėta 2017-10-04]. [Indėlis: 1,000]

[Contribution in the group: 6,750]

Institution: **Vilnius University**

I level subdivision: **580000 - Institute of Mathematics and Informatics**

II level subdivision: **580700 - System analysis department → Cognitive computing group, Operation research group, Image and signal analysis gr.**

## 1. ARTICLES

### 1.1. Articles in publications of the main list of Information Science Institute (ISI)

- 1 **Belovas, Igoris**; Sakalauskas, Leonidas; Starikovičius, Vadimas. A mixed-stable approach to the management of the portfolio using high-frequency financial data // Information Technology and Control. Kaunas : Kaunas University of Technology. ISSN 1392-124X. eISSN 2335-884X. 2017, Vol. 46, no. 3, p. 293-307. DOI: 10.5755/j01.itc.46.3.16766. [DB: DBLP; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,334]
- 2 Bilinskas, Mykolas Jurgis; **Dzemyda, Gintautas**; **Sabaliauskas, Martynas**. Speeding-up the fitting of the model defining the ribs-bounded contour // Applied computer systems / Ryga Technical University. Warsaw : De Gruyter open. ISSN 2255-8683. eISSN 2255-8691. 2017, Vol. 21, no 1, p. 66-70. DOI: 10.1515/acss-2017-0009. [DB: Emerging Sources Citation Index (Web of Science); INSPEC] [Indėlis: 0,666]
- 3 Bilinskas, Mykolas Jurgis; **Dzemyda, Gintautas**; Trakymas, Mantas. Approximation of the ribs-bounded contour in a tomography scan slice // International journal of information technology & decision making. Singapore : World Scientific Publishing Company. ISSN 0219-6220. eISSN 1793-6845. 2017, first on line, p. 1-20. DOI: 10.1142/S0219622017500298. [DB: Science Citation Index Expanded (Web of Science); Scopus; Applied Science & Technology Source; Business Source Premier; INSPEC; Zentralblatt MATH (zbMATH)] [Indėlis: 0,333]
- 4 Bilinskas, Mykolas Jurgis; **Dzemyda, Gintautas**; Trakymas, Mantas. Feature-based registration of thorax CT scan slices // Informatica. Vilnius : Institute of Mathematics and Informatics. ISSN 0868-4952. eISSN 1822-8844. 2017, Vol. 28, no 3, p. 439-452. DOI: <http://dx.doi.org/10.15388/Informatica.2017.137>. [DB: Science Citation Index Expanded (Web of Science); Scopus; INSPEC; Zentralblatt MATH (zbMATH); MatSciNet] [Indėlis: 0,333]
- 5 **Filatovas, Ernestas**; Lančinskas, Algirdas; **Kurasova, Olga**; Žilinskas, Julius. A preference-based multi-objective evolutionary algorithm R-NSGA-II with stochastic local search // Central European journal of operations research. Heidelberg : Springer. ISSN 1435-246X. 2017, Vol. 25, no 4, p. 859-878. DOI: 10.1007/s10100-016-0443-x. [DB: Science Citation Index Expanded (Web of Science); Scopus; EconLit; Zentralblatt MATH (zbMATH)] [Indėlis: 0,500]
- 6 Gloria, Ortega; **Filatovas, Ernestas**; Garzón, Ester Martín; Casado, Leocadio González. Non-dominated sorting procedure for Pareto dominance ranking on multicore CPU and/or GPU // Journal of global optimization. New York, NY : Springer New York LLC. ISSN 0925-5001. eISSN 1573-2916. 2017, Vol. 69, Iss. 3, p. 607-627. DOI: 10.1007/s10898-016-0468-7. [DB: Mathematical Reviews; Current Contents / Engineering, Computing & Technology; Zentralblatt MATH (zbMATH); Scopus; Compendex; Current Abstracts; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,250]
- 7 Jakovlev, Sergej; Andziulis, Arūnas; **Daranda, Andrius**; Voznak, Miroslav; Eglynas, Tomas. Research on ship autonomous steering control for short-sea shipping problems // Transport. Vilnius; Londonas : Technika; Taylor & Francis. ISSN 1648-4142. eISSN 1648-3480. 2017, Vol. 32, iss. 2, p. 198-208. DOI: 10.3846/16484142.2017.1286521. [DB: Academic Search Complete; ICONDA; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,200]
- 8 **Jucevičius, Justinas**; **Treigys, Povilas**; **Bernatavičienė, Jolita**; Briedienė, Rūta; Naruševičiūtė, Ieva; **Dzemyda, Gintautas**; **Medvedev, Viktor**. Automated 2D segmentation of prostate in T2-weighted MRI scans // International journal of computers communications & control. Oradea : Universitatea Agora. ISSN 1841-9836. eISSN 1841-9844. 2017, Vol. 12, No. 1, p. 53-60. Prieiga per internetą: <<http://univagora.ro/jour/index.php/ijccc/article/view/2783/1059>> [žiūrėta 2017-01-03]. [DB: Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,716]
- 9 **Medvedev, Viktor**; **Kurasova, Olga**; **Bernatavičienė, Jolita**; **Treigys, Povilas**; **Marcinkevičius, Virginijus**; **Dzemyda, Gintautas**. A new web-based solution for modelling data mining processes // Simulation modelling practice and theory. Amsterdam : Elsevier Science. ISSN 1569-190X. eISSN 1878-1462. 2017, Vol. 76, p. 34-46. DOI: 10.1016/j.simpat.2017.03.001. [DB: Zentralblatt MATH (zbMATH); Mathematical Reviews; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,917]
- 10 **Mockus, Jonas**; Paulavičius, Remigijus; Rusakevičius, Dainius; Šešok, Dmitrij; Žilinskas, Julius. Application of reduced-set Pareto-Lipschitzian optimization to truss optimization // Journal of global optimization. New York : Springer New York LLC. ISSN 1573-2916. eISSN 1573-2916. 2017, Vol. 67, iss. 1-2, SI, p. 425-450. DOI: 10.1007/s10898-015-0364-6. [DB: Conference Proceedings Citation Index - Science (Web of Science); Science Citation Index Expanded (Web of Science); Current Abstracts; TOC Premier] [Indėlis: 0,200]



- 11 **Otera, Daniele Ettore.** Geometric rank and the Tucker property // Journal of the Korean Mathematical Society. Seoul : Korean Mathematical Society. ISSN 0304-9914. eISSN 2234-3008. 2017, Vol. 54, no 3, p. 807-820. Prieiga per internetą: <<http://pdf.medrang.co.kr/kms01/JKMS/54/JKMS-54-3-807-820.pdf>> [žiūrėta 2017-04-20]. [DB: Science Citation Index Expanded (Web of Science); Scopus; Zentralblatt MATH (zbMATH); MathSciNet] [Indėlis: 1,000]
- 12 **Otera, Daniele Ettore.** On Poenaru's inverse-representations // Quaestiones mathematicae. Grahamstown : National Inquiry Services Centre. ISSN 1607-3606. eISSN 1727-933X. 2017, Vol. 40, no 2, p. 277-293. DOI: 10.2989/16073606.2017.1286403. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; MatSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 1,000]
- 13 **Otera, Daniele Ettore;** Poenaru, Valentin. Finitely presented groups and the Whitehead nightmare // Groups, geometry, and dynamics. Zurich : European Mathematical Society. ISSN 1661-7207. eISSN 1661-7215. 2017, Vol. 11, no 1, p. 291-310. DOI: 10.4171/GGD/397. [DB: Science Citation Index Expanded (Web of Science); Scopus; Zentralblatt MATH (zbMATH); MatSciNet] [Indėlis: 0,500]
- 14 **Otera, Daniele Ettore;** Poenaru, Valentin. Tame combings and easy groups // Forum Mathematicum. Berlin : De Gruyter. ISSN 0933-7741. eISSN 1435-5337. 2017, Vol. 29, no 3, p. 665-680. DOI: 10.1515/forum-2015-0063. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; MathSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 0,500]
- 15 **Otera, Daniele Ettore;** Russo, Francesco G.; Tanasi, Corrado. On 3-dimensional WGSC inverse-representations of groups // Acta Mathematica Hungarica. Budapest : Akademiai Kiado Rt. ISSN 0236-5294. eISSN 1588-2632. 2017, Vol. 151, no 2, p. 379-390. DOI: 10.1007/s10474-017-0698-2. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Complete; Current Abstracts; MathSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 0,334]
- 16 Petkus, Tomas; **Tichonov, Jevgenij;** Filatovas, Ernestas; **Jakštys, Vytautas.** Quality assessment of high-resolution images with small distortions after compression // Baltic journal of modern computing. Riga : University of Latvia. ISSN 2255-8942. eISSN 2255-8950. 2017, vol. 5, iss. 2, p. 206-220. DOI: 10.22364/bjmc.2017.5.2.04. [DB: DOAJ; Academic Search Research & Development; ProQuest Central; VINITI; Emerging Sources Citation Index (Web of Science)] [Indėlis: 0,500]
- 17 **Pranckevičius, Tomas; Marcinkevičius, Virginijus.** Comparison of Naïve Bayes, Random Forest, Decision Tree, Support Vector Machines, and Logistic Regression classifiers for text reviews classification // Baltic journal of modern computing. Riga : University of Latvia. ISSN 2255-8942. eISSN 2255-8950. 2017, Vol. 5, No. 2, p. 221-232. DOI: 10.22364/bjmc.2017.5.2.05. [DB: J-Gate; Emerging Sources Citation Index (Web of Science)] [Indėlis: 1,000]
- 18 Staševskij, Zdislav; Gibas, Povilas; **Gordevičius, Juozas;** Kriukienė, Edita; Klimašauskas, Saulius. Tethered oligonucleotide-primed sequencing, TOP-seq: a high-resolution economical approach for DNA epigenome profiling // Molecular cell. Cambridge, MA : Cell Press. ISSN 1097-2765. eISSN 1097-4164. 2017, Vol. 65, Iss. 3, p. 554-564. DOI: 10.1016/j.molcel.2016.12.012. [DB: Chemical abstracts; Embase; MEDLINE; Biological Abstracts; BIOSIS Previews; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,100]
- 19 **Ušpurienė, Ana;** Sakalauskas, Leonidas; Dumskis, Valerijonas. Financial resource allocation in higher education // Informatics in education. Vilnius : Vilniaus universiteto Matematikos ir informatikos institutas. ISSN 1648-5831. eISSN 2335-8971. 2017, Vol. 16, No. 2, p. 289-300. DOI: 10.15388/infedu.2017.14. [DB: Scopus; CEEOL – Central and Eastern European Online Library; INSPEC; Emerging Sources Citation Index (Web of Science)] [Indėlis: 0,167]
- 20 Vaičiulytė, Ingrida; Kalsytė, Živilė; Sakalauskas, Leonidas; **Plikynas, Darius.** Assessment of market reaction on the share performance on the basis of its visualization in 2D space // Journal of Business Economics and Management. Vilnius ; Londonas : Technika ; Taylor & Francis. ISSN 1611-1699. eISSN 2029-4433. 2017, Vol. 18, iss. 2, p. 309-318. DOI: 10.3846/16111699.2017.1285348. [DB: Central & Eastern European Academic Source (CEEAS); Social Sciences Citation Index (Web of Science); Scopus; Business Source Complete] [Indėlis: 0,250]
- 21 **Venskus, Julius; Treigys, Povilas; Bernatavičienė, Jolita; Medvedev, Viktor;** Voznak, Miroslav; Kurmis, Mindaugas; Bulbenkienė, Violeta. Integration of a self-organizing map and a virtual pheromone for real-time abnormal movement detection in marine traffic // Informatica. Vilnius : Vilniaus universiteto Matematikos ir informatikos institutas. ISSN 0868-4952. 2017, Vol. 28, No. 2, p. 359-374. Prieiga per internetą: <<https://www.mii.lt/informatica/pdf/INFO1145.pdf>> [žiūrėta 2017-07-12]. [DB: Scopus; INSPEC; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,503]
- 22 Želvys, Rimantas; **Jakaitienė, Audronė; Stumbrienė, Dovilė.** Moving towards different educational models of the welfare state: comparing the education systems of the Baltic countries = Link skirtingų gerovės valstybių švietimo modelių: Baltijos šalių švietimo sistemų palyginimas // Filosofija. Sociologija. Vilnius : Lietuvos mokslų akademija. ISSN 0235-7186. 2017, T. 28, Nr. 2, p. 139-150. Prieiga per internetą: <<http://mokslozurnalai.lmaleidykla.lt/publ/0235-7186/2017/2/139-150.pdf>> [žiūrėta 2017-07-19]. [DB: IPSA; The Philosopher's Index; SocINDEX with Full Text; CEEOL – Central and Eastern European Online Library; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,666]

[Contribution in the group: 10,969]

## 1.2. Articles in publications reviewed in other databases of Information Science Institute (ISI) [Proceedings, etc.]

- 1 **Kurilova, Julija; Minkevičius, Saulius; Kurilov, Jevgenij.** On personalised learning scenarios evaluation model // INTED 2017 [elektroninis išteklius] : 11th international technology, education and development conference, 6-8 March, 2017, Valencia, Spain : conference proceedings. Valencia : IATED Academy, 2017. ISBN 9788461784912. p. 2239-2249. DOI: 10.21125/inted.2017.0650. [DB: Conference Proceedings Citation Index - Science (Web of Science); IATED digital library] [Indėlis: 0,667]
- 2 **Kurilova, Julija; Minkevičius, Saulius; Kurilov, Jevgenij.** On personalised learning units evaluation methodology // Information and software technologies : 23rd international conference, ICIST 2017, Druskininkai, October 12-14, 2017 : proceedings / editors: Robertas Damaševičius, Vilma Mikašytė . - Book series : Communications in Computer and Information Science. Vol 756. ISSN 1865-0929, eISSN 1865-0937. Cham : Springer, 2017. ISBN 9783319676418. eISBN 9783319676425. p. 487-498. Prieiga per internetą: <[https://link.springer.com/chapter/10.1007/978-3-319-67642-5\\_41](https://link.springer.com/chapter/10.1007/978-3-319-67642-5_41)> [žiūrėta 2017-11-09]. [DB: SpringerLink; Scopus; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 0,334]
- 3 Litvinas, Linas; Baronas, Romas; **Žilinskas, Antanas.** Application of two phase multi-objective optimization to design of biosensors utilizing cyclic substrate conversion // Proceedings 31st European conference on modelling and simulation / edited by Zita Zoltay Paprika, Péter Horák ... [et al.]. Budapest : ECMS, 2017. ISBN 9780993244049. p. 469-474. [DB: Conference Proceedings Citation Index - Science (Web of Science); Scopus; INSPEC] [Indėlis: 0,333]
- 4 Tamulevičius, Gintautas; **Karbauskaitė, Rasa; Dzemyda, Gintautas.** Selection of fractal dimension features for speech emotion classification // 2017 Open conference of Electrical, Electronic and Information Sciences (eStream) : proceedings of the conference, April 27, 2017, Vilnius, Lithuania / Organized by: Vilnius Gediminas technical university. New York : IEEE, 2017. ISBN 9781538639986. p. 1-4. DOI: 10.1109/eStream.2017.7950316. [DB: Conference Proceedings Citation Index - Science (Web of Science); IEEE Xplore] [Indėlis: 0,666]
- 5 **Kurilova, Julija; Minkevičius, Saulius; Kurilov, Jevgenij.** On personalised learning units evaluation methodology // Information and software technologies : 23rd international conference, ICIST 2017, Druskininkai, October 12-14, 2017 : proceedings / editors: Robertas Damaševičius, Vilma Mikašytė . - Book series : Communications in Computer and Information Science. Vol 756. ISSN 1865-0929, eISSN 1865-0937. Cham : Springer, 2017. ISBN 9783319676418. eISBN 9783319676425. p. 487-498. Prieiga per internetą: <[https://link.springer.com/chapter/10.1007/978-3-319-67642-5\\_41](https://link.springer.com/chapter/10.1007/978-3-319-67642-5_41)> [žiūrėta 2017-11-09]. [DB: SpringerLink; Scopus; Conference Proceedings Citation Index - Science (Web of Science)] [Indėlis: 0,666]

[Contribution in the group: 2,666]

## 1.4. Articles in other reviewed scientific publications

### 1.4.1. In Lithuanian scientific publications

- 1 Savukynas, Raimundas; **Marcinkevičius, Virginijus.** Daiktų interneto objektų identifikavimo metodų palyginimas = A comparison of the identification methods of objects of the Internet of Things // Informacijos mokslai. Vilnius : Vilniaus universiteto leidykla. ISSN 1392-0561. 2017, T. 78, p. 66-82. DOI: 10.15388/Im.2017.78.10835. [DB: CEEOL – Central and Eastern European Online Library; LISA: Library and Information Science Abstracts] [Indėlis: 0,500]
- 2 **Stumbrienė, Dovilė; Jakaitienė, Audronė; Želvys, Rimantas.** Švietimo sistemos stebėseną: išteklių ir rezultatų indeksų sąveika. = Status of education system: interactions of input and output composite indicators // Lietuvos statistikos darbai. Vilnius : Lietuvos statistikos departamentas. ISSN 2029-7262. eISSN 2029-7262. 2017, Vol. 56, no 1, p. 31-40. Prieiga per internetą: <<http://www.statisticsjournal.lt/index.php/statisticsjournal/article/view/179/pdf>> [žiūrėta 2018-01-04]. [DB: Index Copernicus (IC); DOAJ] [Indėlis: 0,333]
- 3 **Minkevičius, Saulius; Greičius, Edvinas.** On extreme values in queues in series // Mathematical models in engineering. Kaunas : JVE International. ISSN 2351-5279. eISSN 2424-4627. 2017, Vol. 3, no 1, p. 17-26. DOI: 10.21595/mme.2017.17808. [DB: Gale's Academic OneFile] [Indėlis: 0,500]

[Contribution in the group: 1,333]

### 1.4.2. In conference proceedings

- 1 **Jurevičius, Rokas; Marcinkevičius, Virginijus.** Application of vision-based particle filter and visual odometry for UAV localization // WSCG 2017: 25th conference on computer graphics, visualization and computer vision [Elektroninis išteklius]. Plzen : Vaclav Skala - UNION Agency. 2017, [p. 1-7]. Prieiga per internetą: <<http://wscg.zcu.cz/wscg2017/2017-WSCG-Conference-Schedule.html>> [žiūrėta 2017-10-26]. [Indėlis: 1,000]
- 2 **Jurgelevičius, Albertas; Sakalauskas, Leonidas.** BOINC from the view point of Cloud computing // CEUR workshop proceedings [elektroninis išteklius]. Aachen : CEUR-WS. ISSN 1613-0073. 2017, Vol. 1973, p. 61-66. Prieiga per internetą: <<http://ceur-ws.org/Vol-1973/paper08.pdf>> [žiūrėta 2017-11-10]. [DB: Scopus] [Indėlis: 1,000]

- 3 Kurilov, Jevgenij; **Kurilova, Julija**; Dvareckienė, Viktorija. On linking social media, learning styles, and Augmented Reality in education // ECSM 2017 : Proceedings of the 4th European Conference on Social Media. Mykolas Romeris University, Vilnius, Lithuania, 3-4 July 2017. Reading : Academic Conferences and Publishing International Limited, 2017. ISBN 9781911218463. eISBN 9781911218470. p. 178-185. Prieiga per internetą: <<http://tinyurl.com/ecsm2017>> [žiūrėta 2017-07-27]. [Indėlis: 0,333]
- 4 Kurilov, Jevgenij; **Kurilova, Julija**. Intelektuali ateities mokykla: kas yra optimali mokymosi strategija? // Geros mokyklos koncepcijos įgyvendinimas matematikos ir informacinių technologijų pamokose: kaip sekasi, kolegos? : 14-osios matematikos ir informacinių technologijų mokytojų respublikinės mokslinės - metodinės konferencijos straipsnių rinkinys / sudarytojai Daiva Bukelytė, Rima Ernestienė, Vincas Tamašauskas. Vilnius : Litera, 2017. ISBN 9786098144505. p. 61-63. [Indėlis: 0,500]
- 5 **Minkevičius, Saulius**; Greičius, Edvinas. On the inequality between queue length and virtual waiting time in open queueing networks under conditions of heavy traffic // International journal of mathematical and computational sciences. Dubai : WASET. ISSN 1307-6892. 2017, Vol. 4, No. 10, p. 954-957. Prieiga per internetą: <<https://www.waset.org/downloads/17/papers/17ae100089.pdf>> [žiūrėta 2017-11-13]. [Indėlis: 0,500]
- 6 Orts, Francisco; **Filatovas, Ernestas**; Ortega, Gloria; **Kurasova, Olga**; Garzon, Ester M.. HPC tool for multidimensional scaling // Proceedings of the 17th International Conference on Computational and Mathematical Methods in Science and Engineering, CMMSE 2017, 4-8 July, 2017. Vol. 5. Cádiz : CMMSE, 2017. ISBN 9788461786947. p. 1611-1614. Prieiga per internetą: <[http://cmmse.usal.es/cmmse2017/sites/default/files/volumes/Proceedings\\_CMMSE\\_2017\\_vol\\_1\\_6.pdf](http://cmmse.usal.es/cmmse2017/sites/default/files/volumes/Proceedings_CMMSE_2017_vol_1_6.pdf)> [žiūrėta 2017-11-08]. [Indėlis: 0,400]
- 7 **Stabingis, Giedrius**; **Bernatavičienė, Jolita**; **Dzemyda, Gintautas**; Paunksnis, Alvydas; **Treigys, Povilas**; Ramutė, Vaičaitienė; Stabingienė, Lijana. Automatization of eye fundus vessel width measurements // VipIMAGE 2017 : proceedings of the VI ECCOMAS thematic conference on computational vision and medical image processing, Porto, Portugal, October 18-20, 2017 / eds.: João Manuel R.S. Tavares, R.M. Natal Jorge. Cham : Springer Nature, 2018. ISBN 9783319681948. eISBN 9783319681955. p. 787-796. DOI: 10.1007/978-3-319-68195-5\_85. [DB: Scopus; SpringerLink] [Indėlis: 0,500]

#### 1.4.3. Articles in other periodical publications, onetime collections of papers, etc.

- 1 Giedrimas, Vaidas; **Sakalauskas, Leonidas**; Petrenko, Anatoly. Distributed software development tools for distributed scientific applications : chapter 5 // Recent Progress in Parallel and Distributed Computing / Edited by Wen-Jyi Hwang. Rijeka : InTech, 2017. ISBN 9789535133155. eISBN 9789535133162. p. 69-85. DOI: 10.5772/intechopen.68334. [Indėlis: 0,166]

[Contribution in the group: 0,166]

## 2. MONOGRAPHS

- 1 Pardalos, Panos M.; **Žilinskas, Antanas**; Žilinskas, Julius. Non-Convex Multi-Objective Optimization. Cham : Springer Nature, 2017. 204 p. ISBN 9783319610054. DOI: 10.1007/978-3-319-61007-8. [Indėlis: 0,333]

[Contribution in the group: 0,333]

## OTHER PUBLICATIONS

- 1 **Belovas, Igoris**; Starikovičius, Vadimas. Mixed-stable modelling of large sets of high-frequency financial data // Mathematical Modelling and Analysis [MMA2017] : 22nd international conference, May 30-June 2, 2017, Druskininkai, Lithuania : abstracts. Vilnius : Technika, 2017. ISBN 9786094760228. eISBN 9786094760211. p. 5. Prieiga per internetą: <[http://inga.vgtu.lt/~art/konf/abstracts\\_2017.pdf](http://inga.vgtu.lt/~art/konf/abstracts_2017.pdf)>. [Indėlis: 0,250]
- 2 **Gimbutienė, Gražina**. Algorithms for non-convex global optimization based on the statistical and Lipschitz objective function models = Statistiniai ir Lipšico tikslo funkcijos modeliais pagrįsti neiškilos globaliosios optimizacijos algoritmai / Gražina Gimbutienė. Vilnius : Vilniaus universitetas, 2017. 159 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24111427/datastreams/MAIN/content>> [žiūrėta 2017-09-21]. [Indėlis: 1,000]
- 3 **Gimbutienė, Gražina**. Statistiniai ir Lipšico tikslo funkcijos modeliais pagrįsti neiškilos globaliosios optimizacijos algoritmai = Algorithms for non-convex global optimization based on the statistical and Lipschitz objective function models / Gražina Gimbutienė. Vilnius : Vilniaus universitetas, 2017. 35 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24111532/datastreams/MAIN/content>> [žiūrėta 2017-09-21]. [Indėlis: 1,000]
- 4 **Jakštys, Vytautas**; **Marcinkevičius, Virginijus**; **Treigys, Povilas**. Evaluation of correction methods of lateral chromatic aberration in digital eye fundus images // 8th International Conference of Pattern Recognition Systems (ICPRS 2017). Stevenage : The Institution of Engineering and Technology, 2017. ISBN 9781785616525. [6 p]. DOI: 10.1049/cp.2017.0132. [Indėlis: 1,000]

- 5 **Sabaliauskas, Martynas.** Computerized Modeling Technology of Unique Footwear Surface Manufacturing Design = Nestandartinės avalynės gamybos formų paviršių kompiuterinio modeliavimo technologija. Vilnius : Vilniaus universiteto leidykla, 2017. 32 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:22719357/datastreams/MAIN/content>> [žiūrėta 2017-05-30]. [Indėlis: 1,000]
- 6 **Sabaliauskas, Martynas.** Nestandartinės avalynės gamybos formų paviršių kompiuterinio modeliavimo technologija = Computerized Modeling Technology of Unique Footwear Surface Manufacturing Design. Vilnius : Vilniaus universiteto leidykla, 2017. 130 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:22718387/datastreams/MAIN/content>> [žiūrėta 2017-05-30]. [Indėlis: 1,000]
- 7 Venskus, Julius; **Treigys, Povilas;** Bernatavičienė, Jolita; Medvedev, Viktor. Retraining strategies of modified SOM for abnormal marine traffic detection // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 54. Prieiga per internetą: <[https://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-12]. [Indėlis: 0,250]
- 8 **Artemčiukas, Edgaras.** Hibridinis objektų sekimo metodas papildytos realybės sistemose naudojant Kalmano filtrą = Hybrid object tracking method for augmented reality systems using the Kalman filter. Vilnius : Vilniaus Universitetas leidykla, 2017. 107 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24201628/datastreams/MAIN/content>> [žiūrėta 2017-10-04]. [Indėlis: 1,000]
- 9 **Artemčiukas, Edgaras.** Hybrid object tracking method for augmented reality systems using the Kalman filter = Hibridinis objektų sekimo metodas papildytos realybės sistemose naudojant Kalmano filtrą. Vilnius : Vilniaus universiteto leidykla, 2017. 32 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24201901/datastreams/MAIN/content>> [žiūrėta 2017-10-04]. [Indėlis: 1,000]
- 10 **Karbauskaitė, Rasa;** Tamulevičius, Gintautas. Fractal dimensions of speech signals // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 24-25. Prieiga per internetą: <[http://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](http://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-18]. [Indėlis: 0,500]
- 11 Korvel, Gražina; **Treigys, Povilas;** Tamulevičius, Gintautas. An initial investigation of keyword spotting using convolutional neural network // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 27. Prieiga per internetą: <[https://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-12]. [Indėlis: 0,333]
- 12 **Minkevičius, Saulius;** Greičius, Edvinas. On the law of the iterated logarithm for extremal queue length in an open queueing network // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 35. Prieiga per internetą: <[https://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-12]. [Indėlis: 0,500]
- 13 **Morkūnas, Mindaugas; Treigys, Povilas; Bernatavičienė, Jolita;** Laurinavičius, Arvydas. Impact of colour on colorectal cancer tissue classification in hematoxylin and eosin stained histological images // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 35-36. Prieiga per internetą: <[https://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-12]. [Indėlis: 0,625]
- 14 **Pranckevičius, Tomas.** Daugiaklasių tekstinių duomenų klasifikavimo metodų tyrimas = Investigation of multi-class classification methods for textual data. Vilnius : Vilniaus universitetas, 2017. 32 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24326074/datastreams/MAIN/content>> [žiūrėta 2017-10-09]. [Indėlis: 1,000]
- 15 **Pranckevičius, Tomas.** Investigation of multi-class classification methods for textual data = Daugiaklasių tekstinių duomenų klasifikavimo metodų tyrimas. Vilnius : Vilniaus universitetas, 2017. 139 p. Prieiga per internetą: <<http://talpykla.elaba.lt/elaba-fedora/objects/elaba:24251445/datastreams/MAIN/content>> [žiūrėta 2017-10-09]. [Indėlis: 1,000]
- 16 **Tiešis, Vytautas.** Construction of active and semi-active schedules for job shop with fixed post-processing periods // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 49. Prieiga per internetą: <[https://www.mii.lt/datamss/files/likes\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/likes_mii_drusk_2017.pdf)> [žiūrėta 2017-12-08]. [Indėlis: 1,000]

- 17 **Venskus, Julius**; Treigys, Povilas; **Bernatavičienė, Jolita**; **Medvedev, Viktor**. Retraining strategies of modified SOM for abnormal marine traffic detection // 9th International workshop on Data Analysis Methods for Software Systems (DAMSS), Druskininkai, Lithuania, November 30 - December 2, 2017. Vilnius : Vilniaus universitetas, 2017. ISBN 9789986680642. p. 54. Prieiga per internetą: <[https://www.mii.lt/datamss/files/liks\\_mii\\_drusk\\_2017.pdf](https://www.mii.lt/datamss/files/liks_mii_drusk_2017.pdf)> [žiūrėta 2017-12-12]. [Indėlis: 0,750]

[Contribution in the group: 13,108]

Institution: **Vilnius University**

I level subdivision: **580000 - Institute of Mathematics and Informatics**

II level subdivision: **581000 - Numerical analysis department → Probability theory and statistics group**

## 1. ARTICLES

### 1.1. Articles in publications of the main list of Information Science Institute (ISI)

- 1 Ivanauskas, Feliksas; Laurinavičius, Valdas Stanislovas; **Sapagovas, Mifodijus**; Nečiporenko, Anatolij. Reaction-diffusion equation with nonlocal boundary condition subject to PID-controlled bioreactor // Nonlinear analysis : modelling and control. Vilnius : Vilnius University Institute of Mathematics and Informatics. ISSN 1392-5113. 2017, Vol. 22, No. 2, p. 261-272. Prieiga per internetą: <[https://www.mii.lt/na/issues/NA\\_2202/NA2228.pdf](https://www.mii.lt/na/issues/NA_2202/NA2228.pdf)> [žiūrėta 2017-03-22]. [DB: Zentralblatt MATH (zbMATH); INSPEC; MathSciNet; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,250]
- 2 Jakubėlienė, Kristina; Čiupaila, Regimantas; **Sapagovas, Mifodijus**. Semi-implicit difference scheme for a two-dimensional parabolic equation with an integral boundary condition // Mathematical modelling and analysis = Matematinis modeliavimas ir analizė. Vilnius ; London : Technika ; Taylor & Francis. ISSN 1392-6292. eISSN 1648-3510. 2017, Vol. 22, iss. 5, p. 617-633. DOI: 10.3846/13926292.2017.1342709. [DB: Science Citation Index Expanded (Web of Science); Scopus] [Indėlis: 0,333]
- 3 **Paukštaitė, Gailė**; **Štikonas, Artūras**. Generalized Green's functions for mth-order discrete nonlocal problems // Lithuanian mathematical journal. New York : Springer. ISSN 0363-1672. eISSN 1573-8825. 2017, Vol. 57, No. 1, p. 109-127. DOI: 10.1007/s10986-017-9346-3. [DB: Science Citation Index Expanded (Web of Science); Zentralblatt MATH (zbMATH); Mathematical Reviews; CIS: Current Index to Statistics] [Indėlis: 0,500]
- 4 **Paukštaitė, Gailė**; **Štikonas, Artūras**. Green's matrices for first order differential systems with nonlocal conditions // Mathematical modelling and analysis. Vilnius : Technika; Taylor & Francis. ISSN 1392-6292. eISSN 1648-3510. 2017, Vol. 22, No. 2, p. 213-227. DOI: 10.3846/13926292.2017.1291456. [DB: Science Citation Index Expanded (Web of Science); Scopus; ICONDA; INSPEC; MathSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 0,500]
- 5 **Rutkauskas, Stasys**. On the Dirichlet problem to elliptic equation, the order of which degenerates at the axis of a cylinder // Mathematical modelling and analysis. Vilnius; Londonas : Technika; Taylor & Francis. ISSN 1392-6292. eISSN 1648-3510. 2017, Vol. 22, no 5, p. 717-732. DOI: 10.3846/13926292.2017.1362053. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; Central & Eastern European Academic Source (CEEAS); Zentralblatt MATH (zbMATH)] [Indėlis: 1,000]
- 6 **Sapagovas, Mifodijus**; Griškoniėnė, Viktorija; Štikoniėnė, Olga. Application of M-matrices theory to numerical investigation of a nonlinear elliptic equation with an integral condition // Nonlinear analysis : modelling and control. Vilnius : Vilnius University Institute of Mathematics and Informatics. ISSN 1392-5113. 2017, Vol. 22, No. 4, p. 489-504. Prieiga per internetą: <[https://www.mii.lt/na/issues/NA\\_2204/NA2245.pdf](https://www.mii.lt/na/issues/NA_2204/NA2245.pdf)> [žiūrėta 2017-07-11]. [DB: Scopus; MathSciNet; INSPEC; Zentralblatt MATH (zbMATH); Science Citation Index Expanded (Web of Science)] [Indėlis: 0,334]

[Contribution in the group: 2,917]

### 1.4. Articles in other reviewed scientific publications

#### 1.4.2. In conference proceedings

- 1 Nečiporenko, Anatolij; Ivanauskas, Feliksas; Laurinavičius, Valdas Stanislovas; **Sapagovas, Mifodijus**. PID-controlled flow-through bioreactor // NSCM 30: the 30th Nordic seminar on computational mechanics, 25-27 October, 201, Denmark : proceedings / editors: Jan Høgsberg, Niels L. Pedersen. Kongens Lyngby : Technical University of Denmark. 2017, p. 133-136. Prieiga per internetą: <[http://3-files.conferencemanager.dk/medialibrary/DEF42602-16D9-4368-83C4-F77E83D08491/images/NSCM\\_proceedings\\_23102017.pdf](http://3-files.conferencemanager.dk/medialibrary/DEF42602-16D9-4368-83C4-F77E83D08491/images/NSCM_proceedings_23102017.pdf)> [žiūrėta 2017-12-18]. [Indėlis: 0,250]

[Contribution in the group: 0,250]

## OTHER PUBLICATIONS

- 1 Jakubėlienė, Kristina; **Čiupaila, Regimantas; Sapagovas, Mifodijus**. Stability of two-dimensional parabolic equation with an integral boundary condition // Mathematical Modelling and Analysis [MMA2017] : 22nd international conference, May 30-June 2, 2017, Druskininkai, Lithuania : abstracts. Vilnius : Technika, 2017. ISBN 9786094760228. eISBN 9786094760211. p. 23. Prieiga per internetą: <[http://inga.vgtu.lt/~art/konf/abstracts\\_2017.pdf](http://inga.vgtu.lt/~art/konf/abstracts_2017.pdf)> [žiūrėta 2017-11-06]. [Indėlis: 0,499]
  - 2 Paukštaitė, Gailė; **Štikonas, Artūras**. Green's matrices for first order differential equations with nonlocal conditions // Mathematical modelling and analysis [MMA2017] : 22nd international conference, May 30-June 2, 2017, Druskininkai, Lithuania : abstracts. Vilnius : Technika, 2017. ISBN 9786094760228. eISBN 9786094760211. p. 50. Prieiga per internetą: <[http://inga.vgtu.lt/~art/konf/abstracts\\_2017.pdf](http://inga.vgtu.lt/~art/konf/abstracts_2017.pdf)> [žiūrėta 2017-06-26]. [Indėlis: 0,250]
  - 3 **Skučaitė-Bingelė, Kristina; Štikonas, Artūras**. Investigation of spectrum curves for Sturm-Liouville problem with two-point nonlocal boundary condition // Mathematical modelling and analysis [MMA2017] : 22nd international conference, May 30-June 2, 2017, Druskininkai, Lithuania : abstracts. Vilnius : Technika, 2017. ISBN 9786094760228. eISBN 9786094760211. p. 63. Prieiga per internetą: <[http://inga.vgtu.lt/~art/konf/abstracts\\_2017.pdf](http://inga.vgtu.lt/~art/konf/abstracts_2017.pdf)> [žiūrėta 2017-06-26]. [Indėlis: 1,000]
  - 4 **Štikonas, Artūras**. Investigation of a stationary problem with two nonlocal conditions // Mathematical modelling and analysis [MMA2017] : 22nd international conference, May 30-June 2, 2017, Druskininkai, Lithuania : abstracts. Vilnius : Technika, 2017. ISBN 9786094760228. eISBN 9786094760211. p. 66. Prieiga per internetą: <[http://inga.vgtu.lt/~art/konf/abstracts\\_2017.pdf](http://inga.vgtu.lt/~art/konf/abstracts_2017.pdf)> [žiūrėta 2017-06-26]. [Indėlis: 0,500]
- [Contribution in the group: 2,249]

Institution:	<b>Vilnius University</b>
I level subdivision:	<b>580000 - Institute of Mathematics and Informatics</b>
II level subdivision:	<b>581200 - Probability theory and statistics department → Probability theory and statistics group</b>
<b>1. ARTICLES</b>	
<b>1.1. Articles in publications of the main list of Information Science Institute (ISI)</b>	
1	<b>Bakshajev, Aleksej; Rudzkis, Rimantas</b> . Goodness-of-fit tests based on the empirical characteristic function // Lithuanian mathematical journal. New York : Springer. ISSN 0363-1672. eISSN 1573-8825. 2017, Vol. 57, Iss. 2, p. 155-170. DOI: 10.1007/s10986-017-9350-7. [DB: Zentralblatt MATH (zbMATH); Scopus; Mathematical Reviews; CIS: Current Index to Statistics; Science Citation Index Expanded (Web of Science)] [Indėlis: 1,000]
2	Bloznelis, Mindaugas; <b>Kurauskas, Valentas</b> . Large cliques in sparse random intersection graphs // Electronic journal of combinatorics. Clemson : Electronic Journal of Combinatorics. ISSN 1077-8926. 2017, Vol. 24, no 2, P2.5 [p. 1-26]. Prieiga per internetą: < <a href="http://www.combinatorics.org/ojs/index.php/elj/article/view/v24i2p5/0">http://www.combinatorics.org/ojs/index.php/elj/article/view/v24i2p5/0</a> > [žiūrėta 2017-11-30]. [DB: Science Citation Index Expanded (Web of Science); Scopus; MatSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 0,500]
3	<b>Dubickas, Artūras</b> . On rational approximations to two irrational numbers // Journal of number theory. San Diego : Elsevier. ISSN 0022-314X. eISSN 1096-1658. 2017, Vol. 177, p. 43-59. DOI: 10.1016/j.jnt.2017.01.026. [DB: Zentralblatt MATH (zbMATH); Current Contents; Mathematical Reviews; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,500]
4	<b>Grublytė, Ieva; Škarnulis, Andrius</b> . A generalized nonlinear model for long memory conditional heteroscedasticity // Statistics. Abingdon : Taylor & Francis. ISSN 0233-1888. eISSN 1029-4910. 2017, vol. 51, iss. 1, [18 p.]. DOI: 10.1080/02331888.2016.1259813. [DB: Science Citation Index Expanded (Web of Science); Scopus; Zentralblatt MATH (zbMATH); MathSciNet; CIS (Current Index to Statistics)] [Indėlis: 0,750]
5	<b>Grublytė, Ieva; Surgailis, Donatas; Škarnulis, Andrius</b> . QMLE for quadratic ARCH model with long memory // Journal of time series analysis. Hoboken : Wiley. ISSN 0143-9782. eISSN 1467-9892. 2017, Vol. 38, Iss. 4, p. 535-551. DOI: 10.1111/jtsa.12227. [DB: Zentralblatt MATH (zbMATH); RePEc: Research Papers in Economics; ProQuest Central; INSPEC; Current Contents; Academic Search Premier; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,833]
6	<b>Januškevičienė, Olga; Saenko, Viacheslav</b> . Estimation of the characteristic exponent of stable laws // Lithuanian mathematical journal. New York : Springer. ISSN 0363-1672. eISSN 1573-8825. 2017, Vol. 57, No. 2, p. 266-281. DOI: 10.1007/s10986-017-9360-5. [DB: Scopus; Science Citation Index Expanded (Web of Science); Academic Search Complete; Academic Search Elite; SpringerLink] [Indėlis: 0,250]

- 7 **Kubilius, Kęstutis; Skorniakov, Viktor;** Ralchenko, Kostiantyn. The rate of convergence of the Hurst index estimate for a stochastic differential equation // *Nonlinear analysis : modelling and control*. Vilnius : Vilnius University Institute of Mathematics and Informatics. ISSN 1392-5113. 2017, Vol. 22, No. 2, p. 273-284. Prieiga per internetą: <[https://www.mii.lt/na/issues/NA\\_2202/NA2229.pdf](https://www.mii.lt/na/issues/NA_2202/NA2229.pdf)> [žiūrėta 2017-03-22]. [DB: Zentralblatt MATH (zbMATH); INSPEC; MathSciNet; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,501]
- 8 **Kurauskas, Valentas.** On the genus of the complete tripartite graph  $K_{n,n,1}$  // *Discrete mathematics*. Amsterdam : Elsevier Science BV. ISSN 0012-365X. eISSN 1872-681X. 2017, Vol. 340, no. 3, p. 508-515. DOI: 10.1016/j.disc.2016.09.017. [DB: Science Citation Index Expanded (Web of Science); Scopus; Zentralblatt MATH (zbMATH); Mathematical Reviews; Current Contents / Physical, Chemical & Earth Sciences] [Indėlis: 1,000]
- 9 **Leipus, Remigijus;** Philippe, Anne; **Pilipauskaitė, Vytautė; Surgailis, Donatas.** Nonparametric estimation of the distribution of the autoregressive coefficient from panel random-coefficient AR(1) data // *Journal of multivariate analysis*. San Diego : Elsevier Inc. ISSN 0047-259X. 2017, Vol. 153, p. 121-135. DOI: 10.1016/j.jmva.2016.09.007. [DB: CABI Abstracts Databases; INSPEC; MatSciNet; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,500]
- 10 **Leipus, Remigijus;** Šiaulys, Jonas. On the random max-closure for heavy-tailed random variables // *Lithuanian mathematical journal*. New York : Springer. ISSN 0363-1672. eISSN 1573-8825. 2017, Vol. 57, no 2, p. 208-221. DOI: 10.1007/s10986-017-9355-2. [DB: Science Citation Index Expanded (Web of Science); Scopus; SpringerLink; CIS (Current Index to Statistics); MathSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 0,250]
- 11 **Manstavičius, Eugenijus.** On mean values of multiplicative functions on the symmetric group // *Monatshefte für Mathematik*. Vienna : Springer. ISSN 0026-9255. eISSN 1436-5081. 2017, Vol. 182, No. 2, p. 359-376. DOI: 10.1007/s00605-015-0857-x. [DB: Current Abstracts; MathSciNet; Scopus; Zentralblatt MATH (zbMATH); Science Citation Index Expanded (Web of Science)] [Indėlis: 1,000]
- 12 Manstavičius, Martynas; **Leipus, Remigijus.** Bounds for the Clayton copula // *Nonlinear analysis : modelling and control*. Vilnius : Vilnius University Institute of Mathematics and Informatics. ISSN 1392-5113. 2017, Vol. 22, no 2, p. 248-260. Prieiga per internetą: <[https://www.mii.lt/na/issues/NA\\_2202/NA2227.pdf](https://www.mii.lt/na/issues/NA_2202/NA2227.pdf)> [žiūrėta 2017-03-07]. [DB: Science Citation Index Expanded (Web of Science); Scopus; Zentralblatt MATH (zbMATH); INSPEC] [Indėlis: 0,250]
- 13 **Norvidas, Saulius.** An uniqueness theorem for characteristic functions // *Positivity*. Dordrecht : Springer. ISSN 1385-1292. eISSN 1572-9281. 2017, Vol. 21, Iss. 4, p. 1341-1352. DOI: 10.1007/s11117-017-0470-4. [DB: Zentralblatt MATH (zbMATH); MathSciNet; Business Source Premier; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,500]
- 14 **Norvidas, Saulius.** A theorem of uniqueness for characteristic functions // *Comptes Rendus Mathématique (C.R. Acad. Sci. Paris, Ser.I)*. Paris : Elsevier. ISSN 1631-073X. eISSN 1778-3569. 2017, Vol. 355, Iss. 8, p. 920-924. DOI: 10.1016/j.crma.2017.07.005. [DB: Science Citation Index Expanded (Web of Science); Scopus; Academic Search Premier; MatSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 1,000]
- 15 **Norvidas, Saulius.** On an uniqueness theorem for characteristic functions // *Nonlinear analysis : modelling and control*. Vilnius : Vilnius University Institute of Mathematics and Informatics. ISSN 1392-5113. 2017, Vol. 22, No. 3, p. 412-420. Prieiga per internetą: <[https://www.mii.lt/na/issues/NA\\_2203/NA2239.pdf](https://www.mii.lt/na/issues/NA_2203/NA2239.pdf)> [žiūrėta 2017-03-22]. [DB: INSPEC; Zentralblatt MATH (zbMATH); MathSciNet; Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,500]
- 16 **Norvidas, Saulius.** On extensions of characteristic functions // *Lithuanian mathematical journal / Vilnius University Institute of Mathematics and Informatics*. New York : Springer. ISSN 0363-1672. eISSN 1573-8825. 2017, Vol. 57, No. 2, p. 236-243. DOI: 10.1007/s10986-017-9357-0. [DB: CIS: Current Index to Statistics; Mathematical Reviews; Zentralblatt MATH (zbMATH); Science Citation Index Expanded (Web of Science)] [Indėlis: 0,500]
- 17 Paulauskas, Vygas; **Vaičiulis, Marijus.** A class of new tail index estimators // *Annals of the Institute of Statistical Mathematics*. Heidelberg : Springer. ISSN 0020-3157. eISSN 1572-9052. 2017, Vol. 69, Iss. 2, p. 461-487. DOI: 10.1007/s10463-015-0548-3. [DB: Science Citation Index Expanded (Web of Science); MathSciNet; IBZ - Internationale Bibliographie der Geistes- und Sozialwissenschaftlichen Zeitschriftenliteratur; Compendex; Scopus] [Indėlis: 0,500]
- 18 Paulauskas, Vygas; **Vaičiulis, Marijus.** Comparison of the several parameterized estimators for the positive extreme value index // *Journal of statistical computation and simulation*. Abingdon, Oxfordshire : Taylor & Francis Inc. ISSN 0094-9655. eISSN 1563-5163. 2017, Vol. 87, No. 7, p. 1342-1362. DOI: 10.1080/00949655.2016.1263303. [DB: CIS: Current Index to Statistics; MathSciNet; Zentralblatt MATH (zbMATH); Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 0,500]
- 19 **Rudzkis, Rimantas; Bakšajev, Aleksej.** General theorems on large deviations for random vectors // *Lithuanian mathematical journal*. New York : Springer. ISSN 0363-1672. eISSN 1573-8825. 2017, Vol. 57, No. 3, p. 367-390. DOI: 10.1007/s10986-017-9367-y. [DB: CIS: Current Index to Statistics; Mathematical Reviews; Zentralblatt MATH (zbMATH); Scopus; Science Citation Index Expanded (Web of Science)] [Indėlis: 1,000]

- 20 **Sunklodas, Jonas Kazys.** On the rate of convergence in the global central limit theorem for random sums of independent random variables // Lithuanian mathematical journal. New York : Springer. ISSN 0363-1672. eISSN 1573-8825. 2017, Vol. 57, no 2, p. 244-258. DOI: 10.1007/s10986-017-9358-z. [DB: Science Citation Index Expanded (Web of Science); Scopus; SpringerLink; CIS (Current Index to Statistics); MatSciNet; Zentralblatt MATH (zbMATH)] [Indėlis: 1,000]

[Contribution in the group: 12,834]

#### 1.4. Articles in other reviewed scientific publications

##### 1.4.1. In Lithuanian scientific publications

- 1 Laužikas, Rimvydas; Kuncevičius, Albinas; **Kurauskas, Valentas**; Žižiūnas, Tadas; Šmigelskas, Marius; Augustinavičius, Renaldas; Žilinskas, Egidijus. Kultūros paveldo informacijos pusiau automatinis valdymas ir tyrimai naudojant 3D technologijas = The semi-automated management of cultural heritage information and investigations in implementing 3D technologies // Informacijos mokslai. Vilnius : Vilniaus universiteto leidykla. ISSN 1392-0561. 2017, T. 77, p. 160-179. DOI: 10.15388/Im.2017.77.10712. [DB: LISA] [Indėlis: 0,142]
- 2 **Mačys, Juozas Juvencijus.** Elementary theory of cubics and quartics = Elementari trečiojo ir ketvirtjo laipsnių lygčių teorija // Lietuvos matematikos rinkinys. Ser. A. Vilnius : Matematikos ir informatikos institutas. ISSN 0132-2818. eISSN 2335-898X. 2017, T. 58, p. 16-22. Prieiga per internetą: <<https://www.mii.lt/LMR/A/2017/58A04.pdf>> [žiūrėta 2018-01-23]. [Indėlis: 1,000]
- 3 **Mačys, Juozas Juvencijus**; Sušinskas, Jurgis. A fundamental equation = Fundamentali lygtis // Lietuvos matematikos rinkinys. Ser. A. Vilnius : Vilniaus universitetas. ISSN 0132-2818. 2017, T. 58, p. 23-27. Prieiga per internetą: <<https://www.mii.lt/LMR/A/2017/58A05.pdf>> [žiūrėta 2018-01-23]. [Indėlis: 0,500]

##### 1.4.3. Articles in other periodical publications, onetime collections of papers, etc.

- 1 **Januškevičienė, Olga**; Sklyarova, Tatyana. A study of teacher's preferences by using of statistical methods // International journal of education and learning systems : International Association of Research and Science. ISSN 2367-8933. 2017, Vol. 2, p. 25-29. Prieiga per internetą: <[http://www.iasar.org/iasar/filedownloads/ijels/2017/002-0005\(2017\).pdf](http://www.iasar.org/iasar/filedownloads/ijels/2017/002-0005(2017).pdf)> [žiūrėta 2017-08-30]. [DB: Index Copernicus (IC)] [Indėlis: 0,500]
- 2 **Januškevičienė, Olga**; Sklyarova, Tatyana. A study of teaching Orthodox culture by using of statistical methods // International journal of cultural heritage : International Association of Research and Science. ISSN 2367-9050. 2017, Vol. 2, p. 26-29. Prieiga per internetą: <[http://www.iasar.org/iasar/filedownloads/ijch/2017/017-0003\(2017\).pdf](http://www.iasar.org/iasar/filedownloads/ijch/2017/017-0003(2017).pdf)> [žiūrėta 2017-08-17]. [DB: Index Copernicus (IC)] [Indėlis: 0,500]

[Contribution in the group: 1,000]

Institution: **Vilnius University**

I level subdivision: **580000 - Institute of Mathematics and Informatics**

II level subdivision: **581300 - Computer networks laboratory → Cognitive computing group**

#### 1. ARTICLES

##### 1.1. Articles in publications of the main list of Information Science Institute (ISI)

- 1 **Bilinskas, Mykolas Jurgis**; Dzemyda, Gintautas; Sabaliauskas, Martynas. Speeding-up the fitting of the model defining the ribs-bounded contour // Applied computer systems / Ryga Technical University. Warsaw : De Gruyter open. ISSN 2255-8683. eISSN 2255-8691. 2017, Vol. 21, no 1, p. 66-70. DOI: 10.1515/acss-2017-0009. [DB: Emerging Sources Citation Index (Web of Science); INSPEC] [Indėlis: 0,334]
- 2 **Bilinskas, Mykolas Jurgis**; Dzemyda, Gintautas; Trakymas, Mantas. Approximation of the ribs-bounded contour in a tomography scan slice // International journal of information technology & decision making. Singapore : World Scientific Publishing Company. ISSN 0219-6220. eISSN 1793-6845. 2017, first on line, p. 1-20. DOI: 10.1142/S0219622017500298. [DB: Science Citation Index Expanded (Web of Science); Scopus; Applied Science & Technology Source; Business Source Premier; INSPEC; Zentralblatt MATH (zbMATH)] [Indėlis: 0,334]
- 3 **Bilinskas, Mykolas Jurgis**; Dzemyda, Gintautas; Trakymas, Mantas. Feature-based registration of thorax CT scan slices // Informatica. Vilnius : Institute of Mathematics and Informatics. ISSN 0868-4952. eISSN 1822-8844. 2017, Vol. 28, no 3, p. 439-452. DOI: <http://dx.doi.org/10.15388/Informatica.2017.137>. [DB: Science Citation Index Expanded (Web of Science); Scopus; INSPEC; Zentralblatt MATH (zbMATH); MatSciNet] [Indėlis: 0,334]

[Contribution in the group: 1,002]



