Matemātikas un informātikas institūts

2016

Starptautisku konferenču tēzes

1. A.Brazma, **K.Cerans, D.Ruklisa**, T.Schlitt, J.Viksna. *Towards experimental validation of models of gene regulatory networks.* 15th European Conference on Computational Biology, The Hague, Netherlands, September 2016. (Conference poster)

2. B.Halldorsson, **J.Viksna**. *Generalized haplotype consistency problem and characterization of haplotype consistent graphs.* Workshop on Algorithms in Bioinformatics WABI 2016, Aarhus, Denmark, August 2016. (Conference poster)

3. **N. Gruzitis**, D. Dannells, A. Ranta, and F. M. Tyers. Grammatical Framework for implementing multilingual frames and constructions. Book of Abstracts of the 9th International Conference on Construction Grammar (ICCG), 2016.

4. **N. Gruzitis and G. Barzdins.** FrameNet development for Latvian. Book of Abstracts of the 9th International Conference on Construction Grammar. International FrameNet Workshop (IFNW), 2016.

5. **Solvita Zariņa.** Case Studies of Digital and Media Art 56°56′51″N 24°6′23″E. 20th International Conference on Information Visualisation - IV2016, Universidade NOVA de Lisboa, July 18–23, Lisbon, Portugal

6. **Solvita Zariņa.** Data Visualization between Design and Artwork. OPEN FIELDS Conference 2016, September 29–October 2, Rīga, Latvia

7. **Solvita Zariņa**, Ojars Krasts. Spectrogram Based Toolkit for High Density Visualization of Data. The 2016 International Conference on Computational Science and Computational Intelligence, December15–17, Las Vegas, NV, USA

8. **Андронова Э.** «Из опыта работы над историческим словарём латышского языка на основе корпуса старолатышских текстов». XLV международная филологическая научная конференция. Санкт-Петербург, СПбГУ 14–21 марта 2016 г., стр. 186.

9. **Andronova E.** *Tēvi* un *vecāki* Georga Manceļa (1593–1654) tekstos. Tarptautinė mokslinė 23-ioji Jono Jablonskio konferencija „Reikšmė

kalboje ir kultūroje". Tezės, Senosios raštijos sekcija, Vilnius, 2016, psl. 4-5.

10. **A. Reinfelds** and Dz. Šteinberga. *Bohl-Perron principle for dynamic equations on time scales.* 10th International conference on "Progress on Difference Equations", May 17 - 20, 2016, Rīga, Latvia. p. 42. http://www.lu.lv/pode2016/

11. **A. Reinfelds.** *Reduction theorem for dynamic systems on time scales.* 21st International conference "Mathematical Modelling and Analysis", June 1 - 4, 2016, Tartu, Estonia, p. 65. http://www.ut.ee/mma2016/

12. **A. Reinfelds.** *Integral stability for dynamic systems on time scale.* 22nd International conference "Difference Equations and Applications", July 24 - 29, 2016, Osaka, Japan, p. 52. http://www.atalacia.com/icdea2016/osaka/

13. **A. Reinfelds** and Dz. Šteinberga. *Bounded solutions of dynamic system on time scale.* 22nd International conference "Difference Equations and Applications", July 24 - 29, 2016, Osaka, Japan, p. 53. http://www.atalacia.com/icdea2016/osaka/

14. M. A. Radin, **I. Bula** and N. Wilkins. About neuron model with period three internal decay rate. 10th International conference on "Progress on Difference Equations", May 17 - 20, 2016, Rīga, Latvia. p. 40. http://www.lu.lv/pode2016/

15. **I. Bula.** About neuron model with period two and three internal decay rate. 22nd International conference "Difference Equations and Applications", July 24 - 29, 2016, Osaka, Japan, p. 19. http://www.atalacia.com/icdea2016/osaka/

16. **H. Kalis, A. Buikis,** A. Aboltins and I. Kangro. *Special splines of hyperbolic type for the solutions of heat and mass transfer 3-D problems in porous multi-layered axial symmetry domain.* 21st International conference "Mathematical Modelling and Analysis", June 1 - 4, 2016, Tartu, Estonia, p.35. http://www.ut.ee/mma2016/

17. **H. Kalis** and **M. Marinaki.** *On numerical modelling of swirl flow in the combustion process.* 21st International conference "Mathematical Modelling and Analysis", June 1 - 4, 2016, Tartu, Estonia, p. 36. http://www.ut.ee/mma2016/

18. **L. Ozola** and **U. Strautins.** *Modelling the influence of magnetic fields on oxygen distribution.* 21st International conference "Mathematical Modelling and Analysis", June 1 - 4, 2016, Tartu, Estonia, p. 58. http://www.ut.ee/mma2016/

19. **U. Strautins.** *Closure approximations for a semiflexible fiber orientation model in suspensions.* 21st International conference "Mathematical Modelling and Analysis", June 1 - 4, 2016, Tartu, Estonia, p.73. http://www.ut.ee/mma2016/

20. **R. Bēts** and **A. Šostak.** *Fuzzy pseudometrics on the set of infinite words.* The 13th international conference on fuzzy set theory and applications FSTA, January 24 – 29, Liptovsky Jan, Slovak Republic, p. 20 www.math.sk/fsta/

21. M. Kokainis and **S. Asmuss.** _Approximation properties of discrete higher degree F-transforms based on B-splains_, Abstracts of the 13th International Conference on Fuzzy Set Theory and Applications FSTA 2016, Liptovský Ján, Slovak Republic, January 24-29, 2016, p. 63 http://www.math.sk/fsta/

22. **A. Šostak** and **R. Bēts**. _On fuzzy varphi-pseudometric spaces and their continuous mappings._ 30th International Conference Real Functions, Stara Lesna, Slovākijā, 2016. gada 5.–10. septembris. Abstracts, pp. 59-60, http://www.saske.sk/MI/confer/1srf16.html

23. **A. Šostak** and **R. Bēts**. _Fuzzy phi-pseudometrics and phi-pseudometric._ Starptautiskā konferencē 2016 International workshop on fixed point theory and its applications, Chonbuk National university, Jeonju, Dienvidkoreja 2016. gada 19.–22. jūnijs, http://at.yorku.ca/cgi-bin/calendar/d/fagn65.

24. **A. Šostak** and **I. Uļjane**. _On extensionality properties of fuzzy rough approximation operators on L-valued sets_, Starptautiskā konference International Conference of the Honam Mathematical Society, Chonbuk National university, Jeonju, Dienvidkoreja 2016. gada 20. – 24. jūnijs Abstracts, p. 64, http://honammath.jbnu.ac.kr.

25. A. Eļkins, **A. Šostak**, and **I. Uļjane**. _On a category of extensional fuzzy rough approximation L-valued spaces_, Book of Abstracts of the 16th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems IPMU 2016, Eindhoven, The Netherlands, June 20-24, 2016, p. 44 http://is.ieis.tue.nl/ipmu http://is.ieis.tue.nl/ipmu/files/IPMU2016BookofAbstracts.pdf

26. M. Kokainis and **S. Asmuss**. _Higher degree F-transforms based on B-splines of two variables._ Book of Abstracts of the 16th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems IPMU 2016, Eindhoven, The Netherlands, June 20-24, 2016, p. 45 http://is.ieis.tue.nl/ipmu http://is.ieis.tue.nl/ipmu/files/IPMU2016BookofAbstracts.pdf

27. **M. Buike** and **A. Buikis**. _Intensive Wave Power and Steel Quenching 3-D Model for Cylindrical Sample. Time Direct and Reverse Formulations and Solutions._ ITM Web of Conferences, Roma, Italy, November 5-7, 2016, **9** (2017) Article number 1003 http://www.itmconferences.org/articles/itmconf/abs/2017/01/contents/contents .html

28. **A. Buikis**. _Hollow system with fin. Transient Green function method combination for two hollow cylinders._ ITM Web of Conferences Roma, Italy, November 5-7, 2016, **9** (2017) Article number 1004 http://www.itmconferences.org/articles/itmconf/abs/2017/01/contents/contents .html

29. **F. Sadyrbaev** and E. Brokan. *On Attractors in Gene Regulatory Systems.* Book of abstracts of 6-th International Advances in Applied Physics and Materials Science Congress (APMAS 2016), Istanbul, Turkey, June 1-3; ID-290, p. 126. http://2016.apmascongress.org/dosyalar/apmas2016_abstract_book.pdf

Latvijas konferenču tēzes

1. **K. Podnieks.** *Reālisms bez mistikas: kā saskatīt patiesību modeļu mākonī.* Referāts LU 74.konferencē, 2016.

2. **J. Bārzdiņš, M. Grasmanis, E. Rencis, A. Šostaks.** *Uz ontoloģijām balstīta ātro vaicājumu valoda, tās iespējas un izaicinājumi.* Referāts LU 74.konferencē, 2016.

3. **E. Rencis, M. Grasmanis,** Juris Bārzdiņš. *Inovatīvs risinājums veselības aprūpes informācijas sistēmās uzkrāto datu izpētei.* Referāts LU 74.konferencē, 2016.

4. **G. Bārzdiņš, R. Liepiņš.** *Datorlingvistikas un lielo datu problēmas H2020 projektā SUMMA.* Referāts LU 74.konferencē, 2016.

5. **U. Bojārs,** J. I. Jevdokimovs. *DBPedia: izmantošanas iespējas un latviskās versijas izveide.* Referāts LU 74.konferencē, 2016.

6. **S. Kozlovičs, P. Ručevskis, E. Celms.** *Datu Galaktikas: tīmekļa bāzēta platforma datu transformācijām un vizualizācijām.* Referāts LU 74.konferencē, 2016.

7. **K. Čerāns, J. Ovčiņņikova, M. Zviedris.** *ViziQuer: diagrammatiska vaicājumu notācija un rīks pār semantiskajām datubāzēm.* Referāts LU 74.konferencē, 2016.

8. **Cīrulis, J.,** Some recent results on the logical order for Hilbert space operators, Abstracts of the 11th Latvian Mathematical Conference, April 15—16, 2016, Daugavpils, Latvia, p. 20. http://www.mathematics.lv/lv/11lmb/Abstracts.pdf

9. **S. Asmuss** and N. Budkina. *On smoothing splines in convex sets.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 4.

10. M. Kokainis and **S. Asmuss.** *Discrete higher degree f-transform based on B-splines.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 40.

11. P. Orlovs and **S. Asmuss.** *Aggregation of fuzzy values based on equivalences.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 46.

12. **I. Uļjane** and **A. Šostaks**. *M-valued bornologies on L-valued sets,* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 61.

13. **R. Bēts** and **A. Šostaks**. *Fragmentary fuzzy metrics and their application in the study of infinite words.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 9.

14. A. Eļkins and **A. Šostaks**. *Many-valued rough sets induced by a fuzzy metric.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 26.

15. **R. Bēts**. *Partial finitely generated bi-ideals.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 8.

16. **I. Bula**. *About some open problems of difference equations with convergent sequence of coefficients.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 14.

17. **J. Cepītis**. *On mathematical modelling of processes in biochemical reactors.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 17.

18. **A. Reinfelds**. *Estimates for solutions of linear ODE.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 52.

19. **H. Kalis, A. Buikis** and I. Kangro. *Some aspect for using the conservation averaging method.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 36.

20. **H. Kalis** and **M. Marinaki**. *Mathematical modelling of MHD flow in the combustion process.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 37.

21. **H. Kalis, M. Marinaki, L. Ozola, U. Strautins** and M. Zake. *On mathematical modelling of the combustion process of biomass.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 38.

22. E. Mūrniece and **I. Bula**. *Sensitivity analysis of matrix games.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 44.

23. **L. Ozola** and **U. Strautins**. *Modelling the influence of Magnetic fields on oxygen distribution.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 48.

24. **U. Strautins**. *Equitation from dynamical systems perspective.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 58.

25. M. A. Radin and **I. Bula**. *About neuron model with periodic with period two internal decay rate.* 11th Latvian Mathematical Conference, April 15 - 16, 2016, Daugavpils, Latvia, p. 67.

26. **M. Dobkevich** and **F. Sadyrbaev**. *On coexistence of solutions of two-point boundary value problem.* Abstracts of the 11th Latvian Mathematical Conference, April 15-16, 2016, Daugavpils, Latvia, P.25.

27. A. Gritsans, **F. Sadyrbaev** and I. Yermachenko. *Dirichlet boundary value problem for a system of the second order asymptotically asymmetric differential equations.* Abstracts of the 11th Latvian Mathematical Conference, April 15-16, 2016, Daugavpils, Latvia, P.29.

28. **N. Sergejeva**. *The role of the Fučik spectrum for solvability of boundary value problems.* Abstracts of the 11th Latvian Mathematical Conference, April 15-16, 2016, Daugavpils, Latvia, P.54.

29. **S. Smirnov**. *On the areas under the oscillatory curves.* Abstracts of the 11th Latvian Mathematical Conference, April 15-16, 2016, Daugavpils, Latvia, P.56.

30. N. Sveikate and **F. Sadyrbaev**. *Reduction of the resonant boundary value problem to a quasilinear problem.* Abstracts of the 11th Latvian Mathematical Conference, April 15-16, 2016, Daugavpils, Latvia, P.60.

31. I. Yermachenko, A. Gritsans and **F. Sadyrbaev**. *On quasi-linear problem with periodic boundary conditions.* Abstracts of the 11th Latvian Mathematical Conference, April 15-16, 2016, Daugavpils, Latvia, P.65.

32. **Cibulis A.**, *Problem on the Number of Polyomino Tilings and Recurrence Relations*, 11th Latvian Mathematical Conference, Daugavpils, 2016, Abstracts, p. 19.