

**Anonīmi recenzēti un starptautiski:
rakstu krājumi;
starptautisko konferenču referātu pilni teksti;
raksti, kas iekļauti rakstu krājumos;
raksti zinātniskajā periodikā**

1. [Valdis Adamsons](#), [Karlis Jerins](#), [Rihards Krislauks](#), [Marta Lapina](#), [Andris Pakulis](#), **Rusins Freivalds**: Advantages of Ultrametric Counter Automata. [SOFSEM \(Student Research Forum Papers / Posters\) 2015](#): 1-12
2. [Kristine Cipola](#), [Andris Pakulis](#), **Rusins Freivalds**: Experiments in Complexity of Probabilistic and Ultrametric Automata. [SOFSEM \(Student Research Forum Papers / Posters\) 2015](#): 120-123
3. [Anete Lace](#), [Muntis Rudzitis](#), [Eriks Gopaks](#), **Rusins Freivalds**: Superimposed Codes and Query Algorithms. [SOFSEM \(Student Research Forum Papers / Posters\) 2015](#): 140-147
4. [Ilmars Puzulis](#), **Rusins Freivalds**: Frequency Pushdown Automata. [SOFSEM \(Student Research Forum Papers / Posters\) 2015](#): 148-153
5. Uldis Straujums, **Rūsiņš Freivalds**, Ārija Sproģe, **Solvita Zariņa**: Long-term and short-term memory in learning processes. Proceedings of 2015 International Congress on Natural Sciences and Engineering (ICNSE), 116-124, 2015.
6. **Rūsiņš Freivalds**, Uldis Straujums, **Solvita Zariņa**, Ārija Sproģe. Quantum algorithms used to analyze security problems. Proceedings of 2015 International Congress on Natural Sciences and Engineering (ICNSE), 273, 280, 2015.
7. Ārija Sproģe, Uldis Straujums, **Rūsiņš Freivalds**, **Solvita Zariņa**: Ultrametric algorithms to test security of mobile networks. Proceedings of 2015 International Congress on Natural Sciences and Engineering (ICNSE), 372-379, 2015.
8. **G.Barzdins**, **P.Paikens**, and **D.Gosko**. Riga: from FrameNet to semantic frames with C6.0 rules. Proceedings of the 9th International Workshop on Semantic Evaluation (SemEval), 2015
9. **N.Gruzitis**, D.Dannells, B.Lyngfelt, and A.Ranta. Formalising the Swedish constructicon in Grammatical Framework. Proceedings of the ACL Workshop on Grammar Engineering Across Frameworks (GEAF), 2015
10. **A. Buikis** and **M. Buike**. The conservative averaging method: applications, theory and new hyperbolic approximation. P. 58-67. „Mathematical and Computational Methods in Applied Sciences.” Proceedings of the 3rd International Conference on Applied, Numerical and Computational Mathematics (ICANCM'15). Sliema, Malta, August 17-19, 2015.

11. **A.Buikis.** Conservative averaging method: applications and theory. Proceedings of the 3rd International Conference on Applied, Numerical and Computational Mathematics (ICANCM'15). Sliema, Malta, August 17-19, 2015.
12. **A.Buikis.** Vortexes in the physical science and technology. "Vortex Science and Technology", J. Vortex Sci. Technol 2015, vol. 2, issue 1.100009, doi: 10.417 2/2090-8369.1000109,2 lpp.
13. **A.Buikis, H.Kalis.** Hyperbolic type approximation for the solutions of the hyperbolic heat conduction equation in 3-D domain. Proc. of 3-rd int. conf. on applied, numerical and computational mathematics (ICANCM'15), aug. 17-19,2015, Sliema, Malta, 42-51.
14. **A.Buikis, H.Kalis, I.Kangro.** Special hyperbolic type spline for mass transfer problems in multi-layer 3-D domains. Proc. of 3-rd int. conf. on applied, numerical and computational mathematics (ICANCM'15), aug. 17-19,2015, Sliema, Malta, 25-34.
15. **M. Buike, A.Buikis, H.Kalis.** Time direct and time inverse problems for wave energy and steel quenching models, solved exactly and approximately. WSEAS transactions on heat and mass transfer, vol.10,2015,30-43, E-ISSN: 2224-3461.
16. **M. Buike, A.Buikis, H.Kalis.** Wave Energy and Steel Quenching Models, which are Solved Exactly and Approximately. P. 72-81. „Mathematical and Computational Methods in Applied Sciences.” Proceedings of the 3rd International Conference on Applied, Numerical and Computational Mathematics (ICANCM'15). Sliema, Malta, August 17-19, 2015.
17. **H.Kalis, M.Marinaki, U.Strautiņš, O.Lietuvietis.** On the numerical simulation of the vortex breakdown in the combustion process with simple chemical reaction and axial magnetic field. Int. J. Diff. Eq. Appl. 14(3), 235-250, 2015.
18. **H.Kalis, M.Marinaki, U.Strautiņš, O.Lietuvietis.** On the numerical simulation of the combustion process with simple chemical reaction. Advances of Heat transfer, Proc. of 7th Baltic heat transfer conference, Tallinn, 2015, pp.175-180.
19. **A.Šostak, S.Grečova,** Fuzzy topologies induced by strong fuzzy metrics, 9th Italian-Spanish Conference on General Topology and its Application, 15-19 July, 2015, pp. 34-42.
20. **A.Šostak, I.Uljane,** L-valued bornologies on powersets, Fuzzy Sets and Systems, Available online June 29, 2015, [doi:10.1016/j.fss.2015.07.016](https://doi.org/10.1016/j.fss.2015.07.016)
21. **H.Kalis, S.Rogovs, A. Gedroics.** Numerical simulation of some ill-posed problems for the heat transfer equation. Int. Journal of Differential Equations and Applications, vol. 14, No.3, 2015, 167-193.

22. **H.Kalis**, M. Kokainis and A. Gedroics. Finite difference schemes in a multi-point stencil and finite difference schemes with the exact spectrum for periodic boundary conditions. *Int. Journal of Differential Equations and Applications*, vol. 14, No.2, 2015, 121-144.
23. Ē.Teirumnieka, I.Kangro, E. Teirumnieks, **H.Kalis**. The analytical solution of the 3D model with Robin's boundary conditions for 2 peat layers. *Proc. of the 10-th int. scientific and practical conference "Environment. Technology. Resources."*, June 18-20, 2015, vol. III, Rezekne higher education institution, 186-192.
24. Tugbahan Simsekler Dizman, **A. Šostak**, Saziye Yuksel, On soft topological spaces, *FILOMAT* (iesniegts)
25. **Jānis Cīrulis** Relatively orthocomplemented skew nearlattices in Rickart rings. **Zbl 06516649** *Demonstr. Math.* 48, No. 4, 493-508 (2015). Full Text: DOI: 10.1515/dema-2015-0036 <https://zbmath.org/>
26. I. Chajda, **Jānis Cīrulis**: An implicational logic for orthomodular lattices, *Acta Scientiarum Mathematicarum*, to appear *Zentralblatt Math.* (<https://zbmath.org/journals/?s=0&c=100&q=Acta+Sci.+Math.+>) un *Mathematical Reviews* (Math. Sci. Net.), (iesniegts)
27. **J. Cīrulis**, Janis CIRULIS, Simple Logics for Basic Algebras *Bulletin of the Section of Logic* 44/3-4 (2015) *Zentralblatt Math.*, <http://www.filozof.uni.lodz.pl/bulletin/bazaIssue.php?g=44&d=%273-4%27> (iesniegts)
28. **S. Asmuss**, P. Orlovs, Upper and lower approximations of general aggregation operators based on fuzzy rough sets. *Proceedings of the 12th International Conference on Fuzzy Systems and Knowledge Discovery FSKD 2015, Zhangjiajie (China), 2015*, pp. 259–263. (iesniegts)
29. **S. Asmuss**, N. Budkina, Dynamic visualization of optimization and approximation processes in teaching mathematics. *Proceedings of the 16th International Conference "Teaching Mathematics: Retrospective and Perspectives"*, Palanga (Lithuania), 2015.
30. **B.Kaškina**, **E.Tauriņš**, A.Dufkova, CSIRT Capabilities. How to assess maturity? Guidelines for national and governmental CSIRTs. ISBN 78-92-9204-164-9, DOI 10.2824/214073 <https://www.enisa.europa.eu/activities/cert/support/baseline-capabilities/csirt-capabilities>