

LU MII publikācijas 2011

Publikācijas, kas ir publicētas anonīmi recenzētos un starptautiski pieejamās datubāzēs iekļautos zinātniskajos izdevumos

(SCI - Science Citation Index Expanded; CMCI - CompuMath Citation Index; TRWS - Thomson Reuters Web of Science)

1. A. Gritsans, F. Sadyrbaev. Two-parameter nonlinear oscillations: the Neumann problem. *Mathematical Modelling and Analysis*, V. 16, N. 1., 2011, 23-38. [Taylor & Francis](#)
2. Y. Kozmina, F. Sadyrbaev. On a maximal number of period annuli, *Abstract and Applied Analysis*, Volume 2011 (2011), Article ID 393875, 8 pages, doi:10.1155/2011/393875 [Hindawi](#)
3. Ю.А. Клоков, Об экстремальных некоторых функционалов в пространстве. *Дифференциальные уравнения*, 2012, т. 48, N 2, 290 – 293 (paziņots par publikāciju)..
4. Н. И. Васильев, А. Я. Лепин и Л. А. Лепин. Экстремальные решения краевых задач. *Дифференциальные уравнения*, 2011, т. 47, № 2, с. 168-174.
5. Н. И. Васильев, А. Я. Лепин и Л. А. Лепин. Экстремальные решения краевых задач четвертого порядка. *Дифференциальные уравнения*, 2012, т. 48, № 1, с. 3–12. (paziņots par publikāciju).
6. S. Kozlovics A universal model-based solution for describing and handling errors. In *Proceedings of Perspectives in Business Informatics Research 2011*, BIR 2011, vol. 90 of LNBIP, Springer, pp. 190-203, 2011 (<http://www.springerlink.com/content/978-3-642-24511-4#section=968601&page=1>). SCOPUS
7. M. Zviedris, G. Barzdins "ViziQuer: A Tool to Explore and Query SPARQL Endpoints", *The Semantic Web: Research and Applications*, LNCS, 2011, Volume 6644/2011, pp. 441 - 445. SCOPUS
8. M. Opmanis, K. Čerāns, Multilevel Data Repository for Ontological and Meta-Modeling // J. Barzdins and M. Kirikova (eds.), *Databases and Information Systems VI*, IOS Press 2011, p.125-138. SCOPUS
9. K. Čerāns, G. Būmans, RDB2OWL: a RDB-to-RDF/OWL Mapping Specification Language // J. Barzdins and M. Kirikova (eds.), *Databases and Information Systems VI*, IOS Press 2011, p.139-152. SCOPUS
10. G. Būmans, K. Čerāns, Advanced RDB-to-RDF/OWL mapping facilities in RDB2OWL // *Proc. of BIR 2011*, Riga, Latvia, October 7-8, 2011. LNBIP 90, pp. 142-157. Springer, Heidelberg, 2011 (ISBN:978-3-642-24510-7) SCOPUS
11. S. Rikacovs, Export of Relational Databases to RDF Databases by Model Transformations, // *Proc. of BIR 2011*, Riga, Latvia, October 7-8, 2010. LNBIP 90, pp. 158-166. Springer, Heidelberg, 2011 (ISBN:978-3-642-24510-7) SCOPUS
12. A. Sostaks. Bringing Domain Knowledge to Pattern Matching. J. Barzdins, M. Kirikova (Eds.), *Databases and Information Systems VI*, Selected Papers from the Ninth International Baltic Conference, DB&IS 2010, Vol. 224, IOS Press, 2011, pp. 66-79. SCOPUS
13. J. Bicevskis, J. Cerina-Berzina, G. Karnitis, L. Lace, I. Medvedis, S. Nesterovs Practitioners View on Domain Specific Business Process Modeling Selected

- Papers from the Ninth International Baltic Conference, DB&IS 2010, Vol. 224, IOS Press, 2011, pp. 169 - 182. SCOPUS
14. S. Kozlovics, E. Rencis, S. Rikacovs, and K. Cerans. A kernel-level UNDO/REDO mechanism for the Transformation-Driven Architecture. In Databases and Information Systems VI – Selected Papers from the Ninth International Baltic Conference, DB&IS 2010, pp.80-93, 2011. (<http://www.booksonline.iospress.nl/Content/View.aspx?piid=19109>) SCOPUS
 15. U.Raitums. On Gamma-convergence of pairs of dual functionals. *Journal of Mathematical Analysis and Applications*, vol.376, 675-685 (2011).
 16. V.A.Zilitis. Determination of Rudberg S and P levels of Cs-like ions by interpolation of relativistic quantum defects. *Optics and Spectroscopy*, vol. 110, No. 6, 831-834 (2011).
 17. Rūsiņš Freivalds Hartmanis-Stearns Conjecture on Real Time and Transcendence "Lecture Notes in Computer Science", vol. 7160, p. 105-116 2012
 18. Yakaryilmaz, A., Freivalds, R., Say, A.C.C., Agadzanyan, R. Quantum computation with write-only memory *Natural Computing*, pp. 1-14 Available online http://www.quosafulltext.com/sc_ddm/sc_ddm.jsp 2011
 19. Freivalds, R., Zeugmann, T. On the amount of nonconstructivity in learning recursive functions *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* 6648, pp. 332-343 2011
 20. Vasilieva, A., Freivalds, R. Nondeterministic query algorithms *Journal of Universal Computer Science* 17 (6), pp. 859- 873 2011
 21. M.Zviedris, G.Barzdins (2011) "ViziQuer: A Tool to Explore and Query SPARQL Endpoints", *The Semantic Web: Research and Applications, LNCS*, 2011, Volume 6644/2011, pp. 441-445
 22. S. Asmuss and A. Sostak, *On spline methods of approximation under L-fuzzy information*, in *IEEE International Conference on Fuzzy Systems*, 2011, pp. 1610 – 1614. SCOPUS
 23. V. Ruza and S. Asmuss, *On another approach to the definition of an L-fuzzy valued integral*, in *IEEE International Conference on Fuzzy Systems*, 2011, pp. 1598 – 1602. SCOPUS
 24. H. Kalis and A. Buikis, *Method of lines and finite difference schemes with the exact spectrum for solution the hyperbolic heat conduction equation*. *Mathematical Modelling and Analysis*, 16 (2011), no. 2, 220 – 232. SCI
 25. I. Bula, J. Bula and I. Rumbeniece, *On new chaotic mappings in symbol space*. *Acta Mechanica Sinica*, 27 (2011), no. 1, 114 – 118. SCI, SCOPUS
 26. A. Cebers and H. Kalis, *Intrinsic curve dynamics of magnetic filaments*. *Magnetohydrodynamics*, 47 (2011), no. 3, 223 – 235. SCI
 27. A. Cebers and H. Kalis, *Dynamics of superparamagnetic filaments with finite magnetic relaxation time*. *European Physical Journal E*, 34 (2011), no. 3, Article Number 30. SCI, SCOPUS
 28. H. Kalis and S. Rogovs, *Finite difference schemes with exact spectrum for solving differential equations with boundary conditions of the first kind*. *International Journal of Pure and Applied Mathematics*, 71 (2011), no. 1, 159 – 172. SCOPUS
 29. G. Pettere and T. Kollu, *Risk modelling for future cash flow using skew t-copula*, *Communications in Statistics - Theory and Methods*, 40 (2011), no. 16, 2919 – 2925. SCI
 30. S. Solovyov, *On limits and colimits of variety-based topological systems*. *Fuzzy Sets and Systems*, 178 (2011), no. 1, 54 – 73. SCI, SCOPUS

31. S. Solovyov, *Fuzzy algebras as a framework for fuzzy topology*. Fuzzy Sets and Systems, 173 (2011), no. 1, 81 – 99. SCI, SCOPUS
32. S. Solovyov, *Generalized fuzzy topology versus non-commutative topology*. Fuzzy Sets and Systems, 173 (2011), no. 1, 101 – 115. SCI, SCOPUS
33. S. Solovyov, *Localification of variable basis topological systems*. Questiones Mathematicae, 34 (2011), no. 1, 11 – 33. SCI, SCOPUS
34. S. Solovyov, *Powerset operator foundations for catalg fuzzy set theories*. Iranian Journal of Fuzzy Systems, 8 (2011), no. 2, 1 – 46. SCI, SCOPUS
35. S. Solovyov, *On a generalization of the concept of state property systems*. Soft Computing, 15 (2011), no. 12, 2467 – 2478. SCI, SCOPUS
36. S. Solovyov, *Extended-order algebras as a generalization of posets*. Demonstratio Mathematica, 44 (2011), no. 3, 589 – 614. SCOPUS
37. A. Frascella, C. Guido and S. Solovyov, *Dual attachment pairs in categorically – algebraic topology*. Applied General Topology, 12 (2011), no. 2, 103 – 134. SCOPUS
38. M. Abel and A. Sostak, *Towards the theory of L-bornological spaces*. Iranian Journal of Fuzzy Systems, 8 (2011), no. 1, 19 – 28. SCI, SCOPUS
39. A. Šostaks, *Mathematics in the context of fuzzy sets: basic ideas, concepts, and some remarks on the history and recent trends of development*. Mathematical Modelling and Analysis 16 (2011), no. 2, 173 – 198. SCI
40. S. Solovyov, *Categorical foundations of variety-based topological systems*. Fuzzy Sets and Systems (article available online) SCOPUS
41. S. Solovyov, *Composite variety-based topological theories*. Fuzzy Sets and Systems (article available online) SCOPUS
42. S. Blomkalne, M. Buike and A. Buikis, *Several intensive steel quenching models for rectangular and spherical samples*, in “Recent Advances in Fluid Mechanics and Heat & Mass Transfer”, Proceedings of the 9th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE’11), Florence, Italy, August 23 – 25, 2011,
43. M. Lazard, A. Buikis, Y.S. Shmaliy, R. Revetria, N. Mastorakis, O. Martin, G. Bognar, S.H. Sohrab, D.N. Riahi, G.R. Gillich (eds.), WSEAS Press, 2011, pp. 390 – 395. SCOPUS
44. T. Bobinska and A. Buikis, *A mathematical model for a willow flute*, in “Recent Advances in Fluid Mechanics and Heat & Mass Transfer”, Proceedings of the 9th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE’11), Florence, Italy, August 23 – 25, 2011,
45. M. Lazard, A. Buikis, Y.S. Shmaliy, R. Revetria, N. Mastorakis, O. Martin, G. Bognar, S.H. Sohrab, D.N. Riahi, G.R. Gillich (eds.), WSEAS Press, 2011, pp. 188 – 192. SCOPUS
46. T. Bobinska, M. Buike and A. Buikis, *Comparing solutions of hyperbolic and parabolic heat conduction equations for L-shape*, in “Recent Advances in Fluid Mechanics and Heat & Mass Transfer”, Proceedings of the 9th IASME/WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment (HTE’11), Florence, Italy, August 23 – 25, 2011,
47. M. Lazard, A. Buikis, Y.S. Shmaliy, R. Revetria, N. Mastorakis, O. Martin, G. Bognar, S.H. Sohrab, D.N. Riahi, G.R. Gillich (eds.), WSEAS Press, 2011, pp. 384 – 389. SCOPUS
48. M. Lencmane and A. Buikis, *Analytical solution of a two-dimensional double-fin assembly*, in “Recent Advances in Fluid Mechanics and Heat & Mass Transfer”, Proceedings of the 9th IASME/WSEAS International Conference on Heat

- Transfer, Thermal Engineering and Environment (HTE'11), Florence, Italy, August 23 – 25, 2011,
49. M. Lazard, A. Buikis, Y.S. Shmaliy, R. Revetria, N. Mastorakis, O. Martin, G. Bognar, S.H. Sohrab, D.N. Riahi, G.R. Gillich (eds.), WSEAS Press, 2011, pp. 396 – 401. SCOPUS
 50. A. Aldersons and A. Buikis, *Mathematical algorithm for heart rate variability analysis*, in “Recent Advances in Applied & Biomedical Informatics and Computational Engineering in Systems Applications”, Proceedings of the 4th WSEAS International Conference on Biomedical Electronics and Biomedical Informatics (BEBE'11), Florence, Italy, August 23 – 25, 2011,
 51. M. Lazard, A. Buikis, Y.S. Shmaliy, R. Revetria, N. Mastorakis, O. Martin, G. Bognar, S.H. Sohrab, D.N. Riahi, G.R. Gillich (eds.), WSEAS Press, 2011, pp. 381 – 386. SCOPUS