

LU MII publikācijas 2010

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. U.Raitums. Representation of relaxations of linear-quadratic optimal control problems for elliptic systems. Zeitschrift fur Analysis und ihre Anwendungen, vol.29 (2010), pp.125-148 **SCI**
2. V.A.Zilitis. Theoretical Determination of Oscillator Strengths for the Principal Series of Rubidium-like Ions by the Dirac-Fock Method. - Optics and Spectroscopy, 2009, v. 107, No. 1, pp. 54 – 57 **SCI**
3. S. Atslega, F. Sadyrbaev. Multiple period annuli in Liénard type equations, Appl. Math. Lett., V. 23, N. 2, 2010, 165-169. **SCI**
4. N.I.Vasilev, A.Ya.Lepin, and L.A.Lepin. Boundary Value Problems with Operator Right-Hand Side. Differential Equations ISSN 0012-2661., Vol. 46, No. 9, 2010, 1227 -1235 **SCI**
5. A.Ya.Lepin, L.A.Lepin, and V.D.Ponomarev†. Boundary Value Problem for an nth-Order Operator Equation. Differential Equations Vol. 46, No. 3, 2010, 452 – 454. **SCI**
6. N. I. Vasilev, A. Ya. Lepin, and L. A. Lepin. On Boundary Value Problems for an nth-Order Equation. Differential Equations Vol. 46, No. 2, 2010, 182 – 186 **SCI**
7. Lebedinska, Jūlija. On another view of an inverse of an interval matrix // Soft Computing. Vol.14, N 10 (2010), p.1043-1046. **SCI**
8. Elīna Kalnina, Audris Kalnins, Edgars Celms, Agris Sostaks. Graphical template language for transformation synthesis // Software Language Engineering : Second International Conference, SLE 2009, Denver, CO, USA, October 5-6, 2009 : revised selected papers. Lecture Notes in Computer Science ; Programming and Software Engineering, Vol. 5969. Heidelberg : Springer, 2010. Pp. 244-253 **CMCI, Springerlink, Scopus**
9. Elīna Kalnina, Audris Kalnins, Edgars Celms, Agris Sostaks. From requirements to code in a model driven way// Advances in databases and information systems : Associated Workshops and Doctoral Consortium of the 13th East European Conference, ADBIS 2009, Riga, Latvia, September 7-10, 2009 : revised selected papers. Lecture Notes in Computer Science ; Information Systems and Applications, incl. Internet/Web, and HCI, Vol. 5968. Heidelberg : Springer, 2010. Pp. 161-168. **Scopus, Springerlink, CMCI**
10. Michał Śmiała, Audris Kalnins, Elina Kalnina, Albert Ambroziewicz, Tomasz Straszak, Katharina Wolter. Comprehensive System for Systematic Case-Driven Software Reuse // SOFSEM 2010 : Theory and Practice of Computer Science. Lecture Notes in Computer Science ; Vol. 5901. Berlin ; Heidelberg : Springer, 2010. P.697-708. **Scopus, Springerlink, CMCI**

11. Sergejs Rikacovs, Janis Barzdins. Export of Relational Databases to RDF Databases: A Case Study // Perspectives in Business Informatics Research : 9th International Conference, BIR 2010, Rostock Germany, September 29–October 1, 2010 : Proceedings / Peter Forbrig, Horst Günther (eds.). Lecture Notes in Business Information Processing ; Vol.64. Berlin ; Heidelberg : Springer-Verlag, 2010. Part 5, p.203-211. [Springerlink](#)
12. Databases and information systems. Edited by Janis Barzdins and Marite Kirikova. Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga. University of Latvia, 2010. 502 lpp. ISBN 978-9984-45-199-2. [TRWS](#)
13. J.Bicevskis, J.Cerina-Berzina, G.Karnitis, L. Lace, I.Medvedis, S. Nesterovs. Domain Specific Business Process Modeling in Practise in Databases and information systems: Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga, University of Latvia, 2010. 61.-74.lpp. [TRWS](#)
14. R.Opmanis Fast heuristic diagram labeling algorithm. Databases and information systems: Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga, University of Latvia, 2010. 219-228.lpp. [TRWS](#)
15. A.Sostaks Pattern matching in MOLA Databases and information systems: Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga, University of Latvia, 2010. 309-324.lpp. [TRWS](#)
16. S.Kozlovics, E.Rencis, S.Rikacovs and K.Cerans Universal UNDO Mechanism for the Transformation-Driven Architecture. Databases and information systems: Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga, University of Latvia, 2010. 325-340.lpp. [TRWS](#)
17. E.Rencis Views on Metamodels: a Different Perception. Databases and information systems: Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga, University of Latvia, 2010. 343-358.lpp. [TRWS](#)
18. M.Opmanis and K.Cerans JR: A Multilevel Data Repository Databases and information systems: Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga, University of Latvia, 2010. 375-390.lpp. [TRWS](#)
19. G.Bumans and K.Cerans RDB2OWL: Mapping Relational Databases into OWL Ontologies – a Practical Approach. Databases and information systems: Proceedings of the Ninth International Baltic Conference, Baltic DB&IS 2010, Riga, Latvia, July 5-7, 2010. Riga, University of Latvia, 2010. 393-408.lpp. [TRWS](#)
20. G.Būmans, K.Čerāns. RDB2OWL: a Practical Approach for Transforming RDB Data into RDF/OWL. // Proceedings of the 6th International Conference on Semantic Systems, Graz, Austria, September 2010, ACM International Conference Proceeding Series, ISBN 9781450300148 (2010) Article No.25, 3p. [Scopus](#), [ACM](#)

21. J.Barzdins, G.Barzdins, K.Cerans, R.Liepins, A.Sprogis. UML Style Graphical Notation and Editor for OWL 2. // P. Forbrig and H. Günther (eds.), Perspectives in Business Informatics Research, Lecture Notes in Business Information Processing, Springer 2010, vol. 64, p. 102-113. **Scopus, Springerlink** <http://www.springerlink.com/content/p780260u4u822t18/>
22. Nešpore Gunta, Saulīte Baiba, Bārzdiņš Guntis, Grūzītis Normunds. Comparison of the SemTi-Kamols and Tesnière's Dependency Grammars. Proceedings of the 4th International Conference on Human Language Technologies — the Baltic Perspective, Frontiers in Artificial Intelligence and Applications, Vol. 219, IOS Press, 2010, pp. 233–240 **Scopus, ACM**
23. Nešpore Gunta, Saulīte Baiba, Bārzdiņš Guntis, Grūzītis Normunds. Comparison of the SemTi-Kamols and Tesnière's Dependency Grammars. Proceedings of the 4th International Conference on Human Language Technologies — the Baltic Perspective, Frontiers in Artificial Intelligence and Applications, Vol. 219, IOS Press, 2010, pp. 233–240. **Scopus, ACM**
24. Mārcis Pinnis, Ilze Auziņa. Latvian text-to-speech synthesizer // Human language technologies - the Baltic perspective : proceedings of the fourth international conference Baltic HLT 2010 / ed.: Inguna Skadina, Andrejs Vasiljevs. Frontiers in artificial intelligence and applications / FAIA ; vol. 219. Washington, DC : IOS Press, 2010. P.69-72. **Scopus, ACM**
25. Adaptive automatic mark-up tool for legacy dictionaries / Lauma Pretkalniņa, Ilze Millere. // Human language technologies - the Baltic perspective : proceedings of the fourth international conference Baltic HLT 2010 / ed.: Inguna Skadina, Andrejs Vasiljevs. Frontiers in artificial intelligence and applications / FAIA ; vol. 219. Washington, DC : IOS Press, 2010. P.147-153. **Scopus, ACM**
26. Grūzītis Normunds. Word Order Based Analysis of Given and New Information in Controlled Synthetic Languages. Proceedings of the 1st Workshop on the Multilingual Semantic Web (at WWW 2010), CEUR, Vol. 571, 2010, pp. 29–34. **CEUR**
27. Normunds Grūzītis, Gunta Nešpore, Baiba Saulīte. Verbalizing ontologies in controlled Baltic languages // Human language technologies - the Baltic perspective : proceedings of the fourth international conference Baltic HLT 2010 / ed.: Inguna Skadina, Andrejs Vasiljevs. Frontiers in artificial intelligence and applications / FAIA; vol. 219. Washington, DC : IOS Press, 2010. P.187-194: **Scopus, ACM**
28. Skadiņa, Inguna, Aker, A., Giouli, V., Tufis, D., Gaizauskas, R., Mieriņa M., Mastropavlos, N. A Collection of Comparable Corpora for Under-resourced Languages. // Proceedings of the Fourth International Conference Baltic HLT 2010, IOS Press, Frontiers in Artificial Intelligence and Applications, Vol. 219, pp. 161-168 **Scopus, ACM**
29. Skadiņa, I., Auziņa I., Grūzītis N., Levāne-Petrova K., Nešpore G., Skadiņš R., Vasiljevs A. Language Resources and Technology for the Humanities in Latvia (2004–2010). // Proceedings of the Fourth International Conference Baltic HLT 2010, IOS Press, Frontiers in Artificial Intelligence and Applications, Vol. 219, pp. 15-22. **Scopus, ACM**

30. Auziņa, Ilze. Towards spoken Latvian corpus : current situation, methodology and development // Human language technologies - the Baltic perspective : proceedings of the fourth international conference Baltic HLT 2010 / ed.: Inguna Skadina, Andrejs Vasiljevs. Frontiers in artificial intelligence and applications / FAIA ; vol. 219. Washington, DC : IOS Press, 2010. P.39-44 [Scopus](#), [ACM](#)
31. Maxim Khalilov, Lauma Pretkalniņa, Natalja Kuvaldina, Veronika Pereseina. SMT of Latvian, Lithuanian and Estonian languages : a comparative study // Human language technologies - the Baltic perspective : proceedings of the fourth international conference Baltic HLT 2010 / ed.: Inguna Skadina, Andrejs Vasiljevs. Frontiers in artificial intelligence and applications / FAIA ; vol. 219. Washington, DC : IOS Press, 2010. P.117-124 [Scopus](#), [ACM](#)
32. Latvian text-to-speech synthesizer / Mārcis Pinnis, Ilze Auziņa. // Human language technologies - the Baltic perspective : proceedings of the fourth international conference Baltic HLT 2010 / ed.: Inguna Skadina, Andrejs Vasiljevs. Frontiers in artificial intelligence and applications / FAIA ; vol. 219. Washington, DC : IOS Press, 2010. P.69-72 [Scopus](#), [ACM](#)
33. Salway, A., Kelly L., Skadiņa I., Jones G. Portable Extraction of Partially Structured Facts from the Web. //Loftsson, H., Rögnvaldsson, E. and Helgadóttir, S. (eds.)// IceTAL 2010, 2010, Lectures Notes in Artificial Intelligence 6233, pp. 345--356. Heidelberg, Springer. [Springerlink](#), [CompuMath](#)
34. Ruben Agadzanyan, Rūsiņš Freivalds. Finite state transducers with intuition. "Lecture Notes in Computer Science", vol. 6079, p. 11-20, 2010. [CMCI](#), [Springerlink](#)
35. Oksana Scegulnaja-Dubrovskaja, Lelde Lāce, Rūsiņš Freivalds. Postselection finite quantum automata. "Lecture Notes in Computer Science", vol. 6079, p. 115-126, 2010. [CMCI](#), [Springerlink](#)
36. Abuzer Yakaryılmaz, Rūsiņš Freivalds, A.C. Cem Say, Ruben Agadzanyan. Quantum Computation with Devices Whose Contents Are Never Read. "Lecture Notes in Computer Science", vol. 6079, p. 164–174, 2010. [CMCI](#), [Springerlink](#)
37. Rūsiņš Freivalds. Amount of nonconstructivity in deterministic finite automata. "Theoretical Computer Science", vol. 411, issue 38-39, pp. 3436-3443, August 2010. [SCI](#)
38. Rūsiņš Freivalds, Abuzer Yakaryılmaz, A.C. Cem Say. A new family of nonstochastic languages. "Information Processing Letters", vol. 110, No. 10, p. 420-423, 2010. [ScienceDirect](#)
39. Dzelme-Bērziņa, Ilze. Quantum Finite State Automata over Infinite Words // Unconventional Computation : Unconventional Computation Unconventional Computation 9th International Conference, UC 2010, Tokyo, Japan, June 21-25, 2010 : proceedings. Lecture Notes in Computer Science ; Vol. 6079. Berlin ; Heidelberg : Springer, 2010. P.188. [CMCI](#), [Springerlink](#), [Scopus](#)
40. A.Šostaks Towards the theory of M-approximative systems: Fundamentals and examples, Fuzzy Sets and Systems, vol. 161 (2010 aprīlī) pp. 2440-2461. [CMCI](#), [Scopus](#)

41. A.Šostaks, J. Gutierrez, T. Kubiak Ideal valued topological structures. *Fuzzy Sets and Systems*, vol. 161 (2010 aprīlī) pp. 2380-2388. [CMCI](#), [Scopus](#)
42. S.Solovjovs Hypergraph functor and attachment. *Fuzzy Sets and Systems*, vol. 161 (2010), no. 22, 2945-2961. [CMCI](#), [Scopus](#)
43. Solovjovs, Sergejs. Variable-basis topological systems versus topological spaces // *Soft Computing*. Vol.14, N 10 (2010), p.1059-1068. [SCI](#)
44. A. Buikis, H. Kalis, A. Gedroics. Mathematical modelling of 2D magnetohydrodynamics and temperature fields, induced by alternating current feeding on the bar type conductors in a cylinder. *Magnetohydrodynamics – MHD*, vol.46, Nr. 1., 2010. p. 41-57. [SCI](#)
45. 2. A.Gedroics, H. Kalis. Mathematical modelling of 2D magnetohydrodynamic flow between two coaxial cylinders in an external magnetic field. *Magnetohydrodynamics*, vol.46, Nr.2, 2010, p.3-20. [SCI](#)
46. Kaupužs, Jevgenijs. Longitudinal and Transverse Correlation Functions in the $\phi(4)$ Model below and near the Critical Point // *Progress of Theoretical Physics*. Vol.124, N 4 (2010), p.613-643. [Scopus](#)
47. J. Kaupužs, R. Mahnke, H. Weber Comment on “How skew distributions emerge in evolving systems” by Choi M. Y. et al.// *EPL : Europhysics Letters*. Vol.91, N 3 (2010), Nr. 30004 [Scopus](#)
48. J. Kaupužs, R.V.N. Melnik, J. Rimsans Monte Carlo estimation of transverse and longitudinal correlation functions in the $O(4)$ model // *Physics Letters A*. Vol.374, N 19/20 (2010), p.1943-1950. [Scopus](#)
49. T. Puritis, J. Kaupužs. Radiative phonon-assisted and Auger recombination in Si nanocrystals // *Optical Materials*. Vol.32, N 8 (2010), p.840-844. [SCI](#)
50. N.A. Nechval, M. Purgailis, V. Danovich, K.N. Nechval, T. Liepins: “Optimal Inventory Control Under Uncertainty and Constraints”. In: *CYBERNETICS AND SYSTEMS 2010*, Robert Trapp (ed.), Austrian Society for Cybernetic Studies, Vienna, AUSTRIA, 2010, pp. 53-58. ISBN : 3-85206-178-8 [Scopus](#)
51. N.A. Nechval, M. Purgailis, G. Berzins, K. Cikste, J. Krasts, K.N. Nechval: “Invariant Embedding Technique and Its Applications for Improvement or Optimization of Statistical Decisions”. In: *Analytical and Stochastic Modeling Techniques and Applications*, K. Al-Begain, D. Fiems, and W. Knottenbelt (Eds.), LNCS, Vol. 6148, Berlin, Heidelberg, Springer-Verlag, pp. 306–320, 2010. *SCI/ISI – ISSN : 0302-9743* [CMCI](#), [Springerlink](#), [Scopus](#)
52. N.A. Nechval, M. Purgailis, K. Cikste, G. Berzins, U. Rozevskis, K.N. Nechval: “Prediction Model Selection and Spare Parts Ordering Policy for Efficient Support of Maintenance and Repair of Equipment”. In: *Analytical and Stochastic Modeling Techniques and Applications*, K. Al-Begain, D. Fiems, and W. Knottenbelt (Eds.), LNCS, Vol. 6148, Berlin, Heidelberg, Springer-Verlag, pp. 321–338, 2010. *SCI/ISI – ISSN : 0302-9743* [CMCI](#), [Springerlink](#), [Scopus](#)