

Vladimir N. Polyakov

COMPLETE PUBLICATION LIST

Scientific Publications 1994-2003

1. V.N. Polyakov "The Manyaspect Model of Natural Language Sentence". VINITI depositor N 2431-B94, 27 p. (1994) (*Article in Russian*)
- 2a. V.N. Polyakov "Meaning Representation of Utterance in the Manyaspect Model" in Proc. of International Workshop of Computational Linguistics and its Applications. Dialogue-96. Pushchino, 214-221 (1996). (*Article in Russian with abstract in English*)
- 2b. V.N. Polyakov "Meaning Representation of Utterance in the Manyaspect Model". Web Journal of Formal, Computational & Cognitive Linguistics. ISSUE 2, January - June (1998), 15 p.
<http://fccl.ksu.ru/issue001/spring.98/pol1.pdf> (*Electronic publication in English*)
3. V.N. Polyakov "The Program "Nedorosl": a Cognitive Approach to Study of Nature of Natural Language Semantic Relations" in Proc. of V-th National Conference of Artificial Intelligence (CAI-96), Kazan, 98-101 (1996). (*Theses in Russian*)
- 4a. V.N. Polyakov "The Meaning Units Grammar for Declarative Sentence of Indicative Mood". VINITI depositor N 1951-B96, 26 p. (1996) (*Article in Russian*)
- 4b. V.N. Polyakov "When the "Colourless Green Ideas" Wake up (the Meaning Units Grammar for Declarative Sentence of Indicative Mood)". Web Journal of Formal, Computational & Cognitive Linguistics. FCCL Preprints Archives ISSUE 1, October - December (1997).
<http://fccl.ksu.ru/winter.97/pol1.htm> (*Electronic publication in English*)
- 5a. V.N. Polyakov "Algorithmic Models for Recognition of Semantic Links in Natural Language Processing Computer Systems". PhD Thesis, Moscow, MISA, 20 p (1997). (*Abstract of PhD Thesis in Russian*)
- 5b. V.N. Polyakov "Algorithmic Models for Recognition of Semantic Links in Natural Language Processing Computer Systems". PhD Thesis, Moscow, MISA, 199 p (1997). (*Full PhD Thesis in Russian*)
- 5c. V.N. Polyakov "Algorithmic Models for Recognition of Semantic Links in Natural Language Processing Computer Systems". PhD Thesis, Moscow, MISA, 199 p (1997).
http://fccl.ksu.ru/issue001/spring.98/pol_thes.pdf (*Electronic publication of full PhD thesis in Russian*)
- 6a. V.N. Polyakov "Language Ability Modeling Using Computer System "Nedorosl" in Text Processing and Cognitive Technologies. Paper Collection. Issue 1. Edited by A.G. Dyachko, Moscow-Pushchino, ONTI PNTS RAN, 47-60 (1997) (*Article in Russian with abstract in English*)
- 6b. V.N. Polyakov "Language Ability Modeling Using Computer System "Nedorosl" in Text Processing and Cognitive Technologies. 1 p. Web Journal of Formal, Computational & Cognitive Linguistics. Information Bulletin.
<http://fccl.ksu.ru/issue001/winter.97/sb-ann-e.pdf> (*Electronic publication of abstracts in English*)
7. A.G.Dyachko, V.N. Polyakov "Analysis of Parsing Algorithms Behaviour on the Task of Real Complexity" in Proc. of International Workshop of Computational Linguistics and its Applications. Dialogue-97. Yasnaya Polyana, 99-102 (1997) (*Article in Russian*)
8. V.N. Polyakov "Synthesis of Formal Models of Language and Sense as a Problem of Text Semantic Processing". News of Artificial Intelligence, Moscow, RAAI, # 1, p. 6-63 (1997) (*Review in Russian*)
9. A.G.Dyachko, E.V. Konvisar, V.N. Polyakov, D.A. Shonin "Extraction and Collection of Scientific Data from Internet" in Proc. of Sixth National Conference with International Participation of Artificial Intelligence (CAI-98), October 5-11, Pushchino, vol. 2, 466-473 (1998) (*Article in Russian with abstract in English*)

10. A.A. Molotkov, V.N. Polyakov, D.A. Shonin “Logical-Semantic Analysis of Mathematical Formulas and Citations in Scientific Papers” in Proc. of Sixth National Conference with International Participation of Artificial Intelligence (CAI-98), October 5-11, Pushchino, vol. 1, 215-221 (1998) (*Article in Russian with abstract in English*)
11. A.G.Dyachko, V.N. Polyakov “Expert System for Automation of Scientific Information Collection in the Internet” in Information Technologies in the Process of Modern Specialist Teaching. Inter-University Paper Collection. Lipetsk, LSTU, 8-13 (1999) (*Article in Russian*)
12. I.A. Maslyanitsin, V.N. Polyakov “System for Processing of Scientific Articles about Non-linear Properties of Organic Combinations” in Information Technologies in Education and Metallurgy. Scientific Paper Collection. Moscow, MISA, 152-156 (1999) (*Article in Russian*)
13. V.N. Polyakov, D.A. Shonin “Using Linguistic Technologies for Collection and Analysis of Scientific Data from Internet” in Text Processing and Cognitive Technologies. Paper Collection. Issue 2. Edited by R.K. Potapova, Moscow, Pushchino, ONTI PNTS RAN, 87-100 (1999) (*Article in Russian with abstract in English*)
- 14a. V.N. Polyakov “Outlook of Intelligent Development of Information Space of Internet by Scientific Community” in Proc. of International Workshop of Computational Linguistics and its Applications. Dialogue-99. Tarusa, 237-247 (1999) (*Article in Russian with abstract in English*)
- 14b. V.N. Polyakov “Outlook of Intelligent Development of Information Space of Internet by Scientific Community” in Inter-University Paper Collection «Problems of Inter-Culture Communication». Ivanovo, Publ. ISCTU, 324-341 (2000) (*Article in Russian*)
- 15a. V.N. Polyakov “Cognitive Mechanisms of Extra-Linguistic Phenomena Recognition in the Morphology of Russian” in Text Processing and Cognitive Technologies. Paper Collection. Issue 3. Edited by V.D. Solovyev, Moscow, Pushchino, ONTI PNTS RAN, 177-196 (1999) (*Article in Russian with abstract in English*)
- 15b. V.N. Polyakov “Cognitive Mechanisms of Extra-Linguistic Phenomena Recognition in the Morphology of Russian” at <ftp://ftp.ksu.ru/ejournals/fccl/issue001/autumn.98/polyakov.zip> (*Electronic copy in Russian*)
- 16a. V.N. Polyakov “The Problems of Representation, Acquisition and Using of Knowledge from the Point of Natural Language Processing” in Proceedings of Math. Center Named N.I. Lobachevsky. V. 4 Computational Linguistics. Proc. of School -Workshop. Kazan. October 20-24, p. 93-110 (1999). (*Article in Russian*)
- 16b. V.N. Polyakov “Representation, Acquisition and Using of Knowledge from the Point of Natural Language Processing” in Information Technologies in the Process of Modern Specialist Teaching. Inter-University Paper Collection. Lipetsk, LSTU, 75-81 (1999) (*Article in Russian*)
- 17a. M.A. Levin, D.A. Poletaev, V.N. Polyakov “Intelligent Tools for Trader at Forex” in Information Technologies in Education and Metallurgy. Scientific Paper Collection. Moscow, MISA, 138-143 (2000) (*Article in Russian*)
- 17b. M.A. Levin, D.A. Poletaev, V.N. Polyakov “Intelligent Tools for Trader at Forex”, 15 p. (2000) at <http://www.geocities.com/SiliconValley/Campus/7926/Polyakov/forex.htm> (*Electronic copy in Russian*)
- 18a. V.N. Polyakov “Intelligent Search Engine: Conceptual Project” in Proc. of Kazan School in Computational and Cognitive Linguistics, TEL-2000, Issue 5, October 17-20, Kazan, Selet, p. 87-119 (2000) (*Article in Russian*)
- 18b. V.N. Polyakov “Intelligent Search Engine: Conceptual Project”
Part 1 at <http://www.geocities.com/SiliconValley/Campus/7926/Polyakov/IntelSE.htm>
Part 2 at <http://www.geocities.com/SiliconValley/Campus/7926/Polyakov/IntelSe2.htm>
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19. V.N. Polyakov "Cognitive Model of Verb: Cause-And-Action Aspect" in Text Processing and Cognitive Technologies. Paper Collection. Issue 5. Edited by R.K. Potapova, V.D. Solovyev, V.N. Polyakov. Pereslavl-Zalessky, 225-234 (2000) (*Article in Russian with abstract in English*)
20. V.N. Polyakov "The Results of Development of the Cognitive Model of Russian Verb (on example of motion verb)" in Proceedings of E-conference "Cognitive Approach to Verb Semantics". November, (2000)
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21. V.A. Ilienikova, V.N. Polyakov "Toward a Representativeness of Lexical Markers of Causal Structures (On the Corpora of Journalistic and Historical Texts)" in Text Processing and Cognitive Technologies. Paper Collection. Issue 4. Edited by R.K. Potapova, V.D. Solovyev, V.N. Polyakov. part I, 159-171 (Pushchino, 2000; Kazan, reprinted edition in 2001) (*Article in Russian*)
22. V.N. Polyakov "Toward Cognitive Model of Russian Verb" in Text Processing and Cognitive Technologies. Paper Collection. Issue 4. Edited by R.K. Potapova, V.D. Solovyev, V.N. Polyakov. Kazan, part II, 61-104 (Pushchino, 2000; Kazan, reprinted edition in 2001) (*Article in Russian*)
- 23a. V.N. Polyakov. "The Influence of the Angular Velocity of Object Dislocation from the Standpoint of the Viewer on the Verb Usage)." Report at the First Annual Conference on Cognitive Slavic Linguistics. November, 3-4, 2000.
<http://www.unc.edu/depts/seelrc/> (*Conference program*)
http://www.geocities.com/SiliconValley/Campus/7926/Polyakov/Articles/Bez_full.html (*Copy of article in Russian*)
- 23b. V.N. Polyakov. "The Influence of the Angular Velocity of Object Dislocation from the Standpoint of the Viewer on the Verb Usage)." *The First Russian Internet Conference on Cognitive Science*. 10.02.2003 - 10.04.2003.
http://www.auditorium.ru/aud/v/index.php?a=vconf&c=getForm&r=thesisDesc&id_thesis=1994 (*Electronic publication of abstracts in Russian and English*)
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24. V.N. Polyakov, V.V. Sinitsin "Method Automatic Classification of Web-resource by Patterns" in Text Processing and Cognitive Technologies. Paper Collection. Issue 6. Edited by V.D. Solovyev, V.N. Polyakov. Kazan, Otechestvo, 120-126 (2001) (*Article in Russian with abstract in English*)
25. O.A. Pavlov, V.N. Polyakov "Frequency Method for Collocation Extraction" in Proc. of Kazan School in Computational and Cognitive Linguistics, TEL-2001, Issue 6, October 22-28, Kazan, Otechestvo, p. 45-56 (2001) (*Article in Russian*)
26. D.A. Bodrov, V.N. Polyakov, A.V. Tochin "Interactive Methods of Focusing and Expansion of Search in the Intelligent Search Engine" in Proc. of International Workshop of Computational Linguistics and Intelligent Technologies. Dialogue'2002. Protvino, June 6-11, Vol. 2, 438-449 (2002) (*Article in Russian with abstract in English*)
27. D.V. Vidrin, V.N. Polyakov "Realization of Computer Dictionary Using N-grams" in Proc. of III-rd International Scientific and Practical Conference "Artificial Intelligence 2002", Katsiveli, September, Scientific – Theoretical Journal "Shtuchny Intellect", Donetsk, 180-183, (2002) (*Article in Russian*)
28. D.A. Bodrov, V.N. Polyakov "Problems of Effective Search Engine Developments" in Text Processing and Cognitive Technologies. Paper Collection. Issue 7. Edited by V.D. Solovyev. Kazan, Otechestvo, 6-55 (2002) (*Article in Russian*)
29. V.N. Polyakov, A.V. Tochin "Trends in Search Technologies Development" in Text Processing and Cognitive Technologies. Paper Collection. Issue 7. Edited by V.D. Solovyev. Kazan, Otechestvo, 56-68 (2002) (*Article in Russian*)

30. V.N. Polyakov, A.A. Shevchenko “Technology of Decision Making at Forex and Financial Markets with Usage Fuzzy Model of Figure“Flag” in Proc. of Sixth National Conference with International Participation of Artificial Intelligence (CAI-2002), October 7-12, Kolomna, vol. 1, 343-352 (2002) (*Article in Russian with abstract in English in vol.2 , p 1040*)
31. V.N. Polyakov “The Project WordNet and Its Influence into Technologies of Computer and Cognitive Linguistics” in Proc. of Kazan School in Computer and Cognitive Linguistics, TEL-2002, Issue 7, Kazan, November 25-29, Otechestvo, p. 6-61 (2002) (*Review in Russian*)
- 32a. D.A. Bodrov, V.N. Polyakov “Navigation through Lexical Ontology Based on Frequency Factors” in Proc. of International Workshop of Computational Linguistics and Intelligent Technologies. Dialogue’2003. Protvino, June 11-16, 554-568 (2003) (*Article in Russian with abstract in English*)
- 32b. D.A. Bodrov, V.N. Polyakov “Frequency Factors for Navigation through Lexical Ontology” in Proc. of International Conference Speech and Computer. SPECOM-2003. Moscow, MSLU, 77-87 (2003) (*Article in English*)
33. E. A. Volskaya, V.N. Polyakov “Cognitive Modeling of Mental Verbs (believe)” in Text Processing and Cognitive Technologies. Paper Collection. Issue 8. Edited by V.D. Solovyev, V.N. Polyakov. Varna-Moscow, MISA, 83-97 (2003) (*Article in Russian with abstract in English*)
34. V.N. Polyakov, A.V. Tochin “Search Task Classification” in Text Processing and Cognitive Technologies. Paper Collection. Issue 8. Edited by V.D. Solovyev, V.N. Polyakov. Varna-Moscow, MISA, 403-416 (2003) (*Article in Russian with abstract in English*)
35. V.N. Polyakov, V.V. Sinitsin “Rubryx: Technology of Text Classification Using Lexical Meaning Based Approach” in Proc. of International Conference Speech and Computer. SPECOM-2003. Moscow, MSLU, 137-143 (2003)

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1. Yu. Yu. Prokopchuk, Yu.V. Ritikova, V.N. Polyakov “Discrete Mathematics. Theory of Graphs. (Educational textbook).” Moscow, MISA, 18 p. (2000).
2. V.N. Polyakov “Methods of Artificial Intelligence and Expert Systems. Neural Networks and Neurocomputers. (Educational textbook).” Kazan, KSU, 20 p. (2001).

Editor papers

1. V.N. Polyakov, R.K. Potapova “Cognitive Technologies of Text Processing” in Text Processing and Cognitive Technologies. Paper Collection. Issue 2. Edited by R.K. Potapova, Moscow, Pushchino, ONTI PNTS RAN, 5-10 (1999) (Article in Russian)
2. V.N. Polyakov, V.D. Solovyev “Workshop “Cognitive Modeling”, Pushchino, October 7, 1998” in Text Processing and Cognitive Technologies. Paper Collection. Issue 3. Edited by V.D. Solovyev, Moscow, Pushchino, ONTI PNTS RAN, 9-10 (1999) (Article in Russian)
3. V.N. Polyakov, V.D. Solovyev “Cognitive Science - Cognitive Linguistics - Cognitive Modeling – Cognitive Technologies” in Text Processing and Cognitive Technologies. Paper Collection. Issue 4. Edited by R.K. Potapova, V.D. Solovyev, V.N. Polyakov. Kazan, Reprinted Edition, part I, 7-17 (2001) (Article both in Russian and English)
4. V.N. Polyakov, V.D. Solovyev “Cognitive Linguistics: Applied Aspect” in Text Processing and Cognitive Technologies. Paper Collection. Issue 5. Edited by R.K. Potapova, V.D. Solovyev, V.N. Polyakov. Pereslavl-Zalessky, 9-11 (2000) (Article in Russian)
5. V.N. Polyakov, V.D. Solovyev “Introducton” Paper Collection. Issue 6. Edited by V.D. Solovyev, V.N. Polyakov. Kazan, Otechestvo, 6 (2001) (*Article in Russian with abstract in English*)
6. V.N. Polyakov “In Place of Introducton” in Text Processing and Cognitive Technologies. Paper Collection. Issue 7. Edited by V.D. Solovyev. Kazan, Otechestvo, 6-7 (2002) (*Article in Russian*)
7. V.N. Polyakov “Cognitive Paradigm in Linguistics and New Challenges” in Text Processing and Cognitive Technologies. Paper Collection. Issue 8. Edited by V.D. Solovyev, V.N. Polyakov. Moscow, MISA, 12-15 (2003) (*Article in Russian*)

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1."Artificial Intelligence". Electronic Manual with Practical Lessons for Students of Majors "Information System in Economics" and "Management Automated Systems". MISA. (2000)

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- 1a. www.rwj.ru – The Web Journal of Applied and Experimental Linguistics Abstracts (in Russian)
- 1b. http://geocities.com/ResearchTriangle/Node/9454/Webjmain_e.htm - The Web Journal of Applied and Experimental Linguistics Abstracts (in English)
- 2a. www.rubryx.narod.ru – Text Classification Program Rubryx (in English)
- 2b. www.sowsoft.ru/rubryx/ – Text Classification Program Rubryx (in English)
- 3a. http://www.geocities.com/SiliconValley/Campus/7926/Polyakov/Pol_RUS-2.htm - Personal HomePage (in Russian)
- 3b. <http://www.geocities.com/SiliconValley/Campus/7926/Polyakov/Polyakov.htm> - Personal HomePage (in English)