

LIST OF PUBLICATIONS¹

Vadim A. Ermolayev, PhD

December, 2006

BOOK CHAPTERS

1. **Ermolayev, V., Keberle, N., Kononenko, O., Terziyan, V.:** Proactively Composing Web Services as Tasks by Semantic Web Agents. To appear in: Zang, L.J. (Ed.) *Modern Technologies in Web Services Research*. Idea Group Inc., 2006, 31p.
2. **Ermolayev, V., Jentzsch, E., Karsayev, O., Keberle, N., Matzke, W.-E., Samoylov, V., Sohnius, R.:** An Agent-Oriented Model of a Dynamic Engineering Design Process. In: Kolp, M., Bresciani, P., Hendersen-Sellers, B., and Winikoff, M. (Eds.): *Agent-Oriented Information Systems III*. 7th International Bi-Conference Workshop, AOIS 2005, Utrecht, Netherlands, July 26, 2005, and Klagenfurt, Austria, October 27, 2005. Revised Selected Papers, 168-183, 2006, LNCS Vol. 3529
3. **Ermolayev, V., Terziyan, V., Kaykova, H.:** SW@Ukraine.Semantic Web Factbook, 2005, Lytras M. (eds), Preliminary edition, AIS SIGSEMIS and OPEN RESEARCH SOCIETY publications, ISSN: 1556-2301, May 2006.
4. **V. A. Tolok, V. A. Ermolayev:** IT-Enabled Teaching and Learning in Today's Higher School In V. P. Andruschenko, M. I. Mikhailichenko, V. G. Kremen (Eds.) "Higher Education in Ukraine: Methodological and Socio-Pedagogical Problems of Modernization", Kiev, 2001, 440 p., ISBN 966-000-000-4, 221-247 (Ukrainian)
5. **V. A. Ermolayev, V. A. Tolok:** Modelling Distant Learning Activities by Agent Task Coalitions. In: Q. Jin, J. Li, J. Cheng, C. Yu and S. Noguchi (Eds.) *Enabling Society with Information Technology*, Springer-Verlag, Tokyo, 2002, ISBN 4431703276, 316-326

JOURNAL ARTICLES

1. **Keberle, N., Ermolayev, V., Vladimirov, V., Dzhurinsky, E.:** Visual Semantic Query Formulation and Execution in UnIT-NET IEDI. "Mathematical Modeling, IT, Automated Control Systems" series of the Herald of Kharkiv National University, No 703, ISSN 0453-8048, p. 95-108
2. **Ermolayev, V., Plaksin, S.:** Workflow Management by Multi-Agent Systems. "Mathematical Modeling, IT, Automated Control Systems" series of the Herald of Kharkiv National University, No 629, 2004(Issue 3), ISSN 0453-8048, p. 132-143
3. **Ermolayev, V., Keberle, N., Shapar, V., Vladimirov, V.:** Semantically Reinforced Web Services for Wrapping Autonomous Information Resources. "Mathematical Modeling, IT, Automated Control Systems" series of the Herald of Kharkiv National University, No 629, 2004(Issue 3), ISSN 0453-8048, p. 56-69
4. **Ermolayev, V., Keberle, N., Kononenko, O., Plaksin, S., Terziyan, V.:** Towards a framework for agent-enabled semantic web service composition. *Int. J. of Web Services Research*, 1(3), 63-87, Jul.-Sept. 2004
5. **Ermolayev, V., Keberle, N., Plaksin, S., Vladimirov, V.:** Ontology-Driven Query Transformation in Agent-based Intelligent Information Retrieval. *Herald NTU KhPI, Sp. Issue "System Analysis, Control, and IT"*, No 1, 2004, 57-72
6. **Ermolayev, V. A., Tolok, V. A.** Unified Information Space for Microeconomic Systems Modeling and Control. In: Ju. G. Lysenko (Ed.) *Control Models for Market Economy. Special Issue*. DonNU, Donetsk, 2002, p. 66-88
7. **Ermolayev, V., Tolok, V.** Academic E-editions in the Information Space of Ukraine. *Novyj Kolegium. Scientific and Information Journal*, ISSN 1562-529X, pp. 38-45
8. **Ermolayev, V. A., Keberle, N. G., Malyar, E. N., Plaksin, S. L.** Algebraic Approach to Ontology Translation *Lecture Notes of Zaporozhye State University*, ISBN 966-599-142-6, Vol. 5, No 2, 2002
9. **V. A. Ermolayev, S. L. Plaksin** Coordination of Work Placement in Agents' Task Coalitions. *Lecture Notes of Zaporozhye State University*, ISBN 966-599-142-6, Vol. 4, No 1, pp. 30-35, 2001
10. **V. A. Ermolayev, N. G. Keberle,** Active Data Dictionary: a Method and a Tool for Data Model Driven Information System Design. *Lecture Notes of Zaporozhye State University*, ISBN 966-599-058-4, Vol. 3, No 2, 2000. pp. 68-78.
11. **V. A. Ermolayev, S. U. Borue, V. A. Tolok, N. G. Keberle,** Use of Diakoptics and Finite Automata for Modelling Virtual Information Space Agent Societies. *Lecture Notes of Zaporozhye State University*, ISBN 966-599-058-4, Vol. 3, No 1, 2000, pp.34-44.
12. **S. U. Borue, V. A. Ermolayev, V. A. Tolok:** Application of Diakoptical MAS Framework to Planning Process Modelling --in: "Problems of Programming" *Scientific Journal №1-2*, 2000, ISBN 966-02-1244-5, Special Issue: the Proc. of the 2-nd Intl. Scientific - Practical Conference on Programming (UkrPROG'2000), Kiev, 23-26 May 2000, p. 488-500
13. **S. U. Borue, V. A. Ermolayev, V. A. Tolok:** On Diakoptical Approach to Process Modelling in Multifunctional Information Systems. *Artificial Intelligence. Scientific Theoretical Journal №2*, 1999, ISSN 1561-5359, Special Issue:

¹ Some early papers are not included – nothing really significant. Full texts of the drafts of the selected papers are available from http://ermolayev.com/eva_personal/evapubs.htm.

Proceedings of International Conference Knowledge - Dialog - Solution (KDS'99). Katsiveli, 13-18.09.1999, pp. 211-219

14. **Ermolayev, V. A., Pletsyky, S. U., Tolok, V. A.**, Architecture of Unified Information Space of a Virtual University. Lecture Notes of Zaporozhye State University, ISBN 966-599-058-4, Vol. 1, No 2, 1998, p. 44-53. (Russian)

15. **V. A. Ermolayev, N. G. Keberle**, On Possibilities to Enhance Relational Attributes with the Property of Computability. Lecture Notes of Zaporozhye State University, ISBN 966-599-058-4, Vol. 1, No 2, 1998, p. 38-44. (Russian)

16. **V. A. Ermolayev**, Object Oriented Dynamic Data Modelling and Active Data Dictionaries - Some Crosspoints . Lecture Notes of Zaporozhye State University, ISBN 966-599-058-4, Vol. 1, No 2, 1998, p. 53-63.

17. **N. G. Keberle, V.A. Ermolayev**, On Boolean Operations upon Relationships Containing Computable Attributes. Lecture Notes of Zaporozhye State University, ISBN 966-599-058-4, Vol 1, No 1, 1998, p.40 - 41 (Russian)

18. **V. A. Ermolayev, A. S. Kontsur, V. A. Tolok**, On Perspectives of Further Development of University-Wide Computational Infrastructure at ZSU. Lecture Notes of Zaporozhye State University, ISBN 966-599-058-4, Vol. 1, No 1, 1998, p. 46-49. (Russian)

19. **S. U. Borue, V. A. Ermolayev, A. V. Tolok** On an Integral approach to the design of adaptable mathematical models of complex systems In: Mathematics, Physics. Collection of Scientific Papers Dedicated to the 10-th Anniversary of Zaporozhye State Univ., Zaporozhye, ZSU, 1995, p. 5-9. (Russian)

20. **V. A. Ermolayev, S. G. Kononov**, A Method of Design and Projection of 3-dimensional Objects Having Complex Geometrical Shape. In: Mathematics, Physics. Collection of Scientific Papers Dedicated to the 10-th Anniversary of Zaporozhye State Univ., Zaporozhye State University, Zaporozhye, Ukraine, 1995, pp 35-38. (Russian)

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1. **Gorodetsky, V., Ermolayev, V., Jentsch, E., Karsayev, O., Konushy, V., Matzke, W.-E.**: Multi-agent Software Tool for Management of Design Processes in Microelectronics. In: Nishida, T., Klusch, M., Sycara, K., Yokoo, M. (Eds.): Proc. IEEE/WIC/ACM Int. Conf. on Intelligent Agent Technology (IAT-06), 20-22 Dec., 2006, Hong Kong, pp. 773-776

2. **Sohnius, R., Ermolayev, V., Jentsch, E., Keberle, N., Matzke, W.-E., Samoylov, V.**: Managing Concurrent Engineering Design Processes and Associated Knowledge. In: Ghodous, P., Dieng-Kuntz, R., and Loureiro, G. (Eds.): Leading the Web in Concurrent Engineering. Proc. 13th ISPE Int Conf on Concurrent Engineering: Research and Applications, 18 - 22 Sept., Antibes, French Riviera, IOS Press, Series: Frontiers in AI and Applications, Vol. 143, pp. 198-205, 2006

3. **Ermolayev, V., Keberle, N.**: A Generic Ontology of Rational Negotiation. In: Karagiannis, D., Mayr, H.C. (Eds.): Information Systems Technology and its Applications. 5-th Int Conf ISTA'2006, May 30 – 31, Klagenfurt, Austria, LNI, Vol. 84, pp. 51-66, 2006

4. **Ermolayev, V., Keberle, N., Matzke, W.-E., Vladimirov, V.**: A Strategy for Automated Meaning Negotiation in Distributed Information Retrieval. In: Y. Gil et al. (Eds.): ISWC 2005 Proc. 4th Int. Semantic Web Conference (ISWC'05), 6-10 November, Galway, Ireland, LNCS 3729, pp. 201 – 215, 2005.

5. **Ermolayev, V., Jentsch, E., Karsayev, O., Keberle, N., Matzke, W.-E., Samoylov, V.**: Modeling Dynamic Engineering Design Processes in PSI. In: J. Akoka et al. (Eds.): ER Workshops 2005, Proc. Seventh International Bi-Conference Workshop on Agent-Oriented Information Systems (AOIS-2005), Klagenfurt, Austria, October 24-28, Springer LNCS 3770, pp. 119 – 130, 2005.

6. **Vadim Ermolayev, Vladimir Gorodetski, Eyck Jentsch, Wolf-Ekkehard Matzke**: Modeling and Simulation of Dynamic Engineering Design Processes. **Tutorial** at ER 2005. In: J. Akoka et al. (Eds.): ER Workshops 2005, Klagenfurt, Austria, October 24-28, Springer LNCS 3770, pp. 470 – 472, 2005.

7. **Gorodetsky, V., Ermolayev, V., Matzke, W.-E., Jentsch, E., Karsayev, O., Keberle, N., Samoylov, V.**: Agent-Based Framework for Simulation and Support of Dynamic Engineering Design Processes in PSI. In: Pechoucek, M., Petta, P., Varga, L. Z. (Eds.) Proc. 4th Int. Central and Eastern European Conf. on Multi-Agent Systems (CEEMAS'05), 15-17 September 2005, Budapest, Hungary, LNAI 3690, pp. 511-520, 2005.

8. **Ermolayev, V., Keberle, N., Shapar, V., Vladimirov, V.** (2004): Ontology-Driven Sub-Query Extraction for Distributed Autonomous Information Resources in UnIT-Net IEDI. In: A. Doroshenko, T. Halpin, S. W. Liddle, H. C. Mayr (eds.) Information Systems Technology and its Applications. Proc. 3-d Int. Conf ISTA'2004, July 15-17, 2004, Salt Lake City, Utah, USA, p. 137-150, GI LNI Vol P-48

9. **Ermolayev, V., Spivakovsky, A., Zholtkevych, G.** (2004) UnIT-NET IIDE : Infrastructure nationale ukrainienne pour l'intraechange de donnees electroniques. Institut Universitaire de Technologie Nice-Cote d'Azur. Universite Nice-Sophia Antipolis. Colloque National de la Recherche Universitaire dans les I. U. T. Actes de Colloque, Tome 1. Sciences et Techniques de l' Ingenieur, Nice, May, 6-7, 2004, p. 113-121.

10. **Ermolayev, V., Keberle, N., Plaksin, S.** (2003) Towards Agent-Based Rational Service Composition -- RACING Approach. In: M. Jeckle and L-J. Zang (Eds.) Web Services -- ICWS-Europe 2003. Proc. of the Int. Conf. on Web Services Europe, Sept., 23-25, 2003, Erfurt, Germany, LNCS Vol. 2853, p. 167-182

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12. **V. A. Ermolayev, S. L. Plaksin** (2002) Cooperation Layers in Agent-Enabled Business Process Management. In: Proc. of The 3-d Intl. Scientific-Practical Conference on Programming (UkrPROG'2002), May, 21-24, 2002, Kiev, Ukraine, p. 354-368
13. **Ermolayev, V. Keberle, N., Tolok, V.** (2002). OIL Ontologies for Collaborative Task Performance in Coalitions of Self-Interested Actors. In: H. Arisawa, Y. Kambayashi, V. Kumar, H.C. Mayr, I. Hunt (Eds.):Conceptual Modeling for New Information Systems Technologies ER 2001 Workshops, HUMACS, DASWIS, ECOMO, and DAMA, Yokohama Japan, November 27-30, 2001. Revised Papers - LNCS vol. 2465, p. 390-402
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15. **Ermolayev, V.** Dynamic Agent Communities Facilitating to Distant Learning in a Virtual University Information Space. In: Proc. of Intl. Conf. IS2000, Special Session on Virtual Universities and Distance Education, Japan, November 5-8, 2000, pp. 488-495.
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17. **S. U. Borue, V. A. Ermolayev, V. A. Tolok**: Application of Diakoptical MAS Framework to Planning Process Modelling --in: Proc. of the 2-nd Intl. Scientific - Practical Conference on Programming (UkrPROG'2000), Kiev, 23-26 May 2000, p. 488-500
18. **Ermolayev, V. A., Tolok, V. A., Maksishko, N. G.** On Opportunities to IT Research Integration and IT Curriculum Improvement in European Frameworks. In: Proc. of the 5-th Scientific-Methodological Conference "Economical Cybernetics: the Problems of Methodology", Kiev, Dec. 1999, 14 pp. (Ukrainian)
19. **S. U. Borue, V. A. Ermolayev, V. A. Tolok**: On Diakoptical Approach to Process Modelling in Multifunctional Information Systems. in: Proc.of International Conference Knowledge - Dialog - Solution (KDS'99). Katsiveli, 13-18.09.1999, pp. 211-219, (Russian)
20. **V. A. Ermolayev**, Visual Intranet Interfaces and Architecture of Unified Information Space in the Concept of Virtual University at ZSU -- ENCOM'98, Atlanta, June 1998
21. **V. A. Ermolayev, A. S. Kontsur, V. A. Tolok**, On a Concept of ZSU Computational Media Enhancement. in: Proc.of the Annual Scientific Conference of Zaporozhye State University, Zaporozhye State University, Zaporozhye, Ukraine, 1997, Vol 7, Part 1, 4p (Russian)
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23. **V.A. Ermolayev, A. P. Filobok** Design of the Federated Data Model for the Integrated University Entrant Information System. In Proc.of the Annual Scientific Conference of Zaporozhye State University, Zaporozhye State University, Zaporozhye, Ukraine, 1996, Vol 6, Part 1, p 51-57. (Russian)
24. **V. A. Ermolayev**, Relational Data Model Enhancement Using Computable Attribute Technique. in Proc. of the Annual Scientific Conference of Zaporozhye State University, Zaporozhye State University, Zaporozhye, Ukraine, 1995, Vol 5, Part 1, p 69. (Russian)
25. **V. A. Ermolayev, V. V. Mukhin** Principles of Active Data Dictionary System Design In: Proc. Of the Annual Scientific Conference of Zaporozhye State Univ., Zaporozhye, ZSU, May, 1993 (Russian)

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1. **Ermolayev, V.** (2003) RACING: Agent-Mediated Web Service Composition for Rational Information Retrieval. e-Article on [KTweb Community Portal](http://www.kept.lu/doc/article11.pdf), May 2003, 5 p. URL: <http://www.kept.lu/doc/article11.pdf>

PROJECT DELIVERABLES/TECHNICAL REPORTS

1. **Ermolayev, V., Jentsch, E., Keberle, N., and Sohnius, R.**: Performance Simulation Initiative. The Family of PSI Ontologies v.1.6. Reference Specification. Technical Report PSI-ONTO-TR-2006-4, 26.07.2006, VCAD EMEA Cadence Design Systems, GmbH, 77p.
2. **Ermolayev, V., Jentsch, E., Keberle, N., Samoylov, V., and Sohnius, R.**: Performance Simulation Initiative. The Family of PSI Ontologies v.1.5. Reference Specification. Technical Report PSI-ONTO-TR-2006-3, 14.04.2006, Cadence Design Systems, GmbH, 56 p.
3. **Ermolayev, V., Jentsch, E., Keberle, N., Samoylov, V., Sohnius, R.**: The Family of PSI Ontologies v.1.4. Reference Specification. Technical Report PSI-ONTO-TR-2006-2. Cadence Design Systems, GmbH, 47 p., 2006

4. **Ermolayev, V., et al:** PSI: Conceptual Ability Framework Specification. Draft. Internal Report No: TR-PSI-2-2006 Version 0.1. January, 2006
5. **Ermolayev, V., Jentzsch, E., Matzke, W.-E., Schmidt, J., Schroeder, G., Weber, S., Werner, J.:** Agent-Based Dynamic Engineering Design Process Modeling Framework. Technical Report. Cadence Design Systems, GmbH, 29 p., 2004.
6. **Ermolayev, V.:** State of the Art in Agent-Based Modeling and Simulation of Design Processes. Technical Report. Cadence Design Systems, GmbH, Mozartstr. 2 D.85622 Feldkirchen, Germany, 2004, 25 p
7. **Ermolayev, V., Bulat, A., Gray, E., Keberle, N., Plaksin, S., Shapar, V., Vladimirov, V., Zholtkevich, G.:** The Infrastructure for Electronic Data Interchange. Reference Architecture Specification. Version 1.0. UNIT-NET Project Deliverable No D2.2.D.1. URL: <http://www.compsci-preprints.com/comp/Preprint/eva/20040228/1/>
8. **Borue, S. U., Ermolayev, V. A., Keberle, N. G., Plaksin, S. L., Tolok, V. A.** (2002) Formal and Algorithmic Framework for a Rational Information Retrieval Agency. Technical Report on Research Project (Grant No 0102Y005339 of Ministry of Education and Science of Ukraine), Zaporozhye State Univ., Zaporozhye, 2002, 50 p.
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11. **S. U. Borue, V. A. Ermolayev, N. G. Keberle, V. V., Mikhailichenko, S. L. Plaksin, V. A. Tolok** Formal Principles and Methods of Interaction of the Models of the Functional Objects in the Unified University Information Space. Intermediate Report on Research Project (Grant No 0197y012776 of Ministry of Education and Science of Ukraine), Zaporozhye State Univ., Zaporozhye, 2000, 49 p. (Ukrainian)
12. **V. A. Ermolayev, V. A. Tolok, S. U. Borue:** Decomposition, Projection Models and Design Framework for the Components of Unified University Information Space. Tech. Report on Research Project (Grant No 0197y012776 of Ministry of Education of Ukraine), Zaporozhye State Univ., Zaporozhye, 1999, 48 p. (Russian)
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1. **Samoylov, V., Gorodetsky, V., Ermolayev, V., Jentzsch, E., Karsayev, O., Keberle, N., Matzke, W.-E., and Sohinus, R.:** Agent-based Prototype of the Dynamic Engineering Design Process Performance Management System (DEDP-PMS). In: Brewka, G., Coradeschi, S., Massa, P., Perini, A., Tatar, M., Traverso, P. (Eds.) ECAI 2006 Systems Demonstrations. ECAI 2006, 17-th European Conference on Artificial Intelligence, Riva del Garda, Italy, Aug. 28 – Sep. 1, p. 37-38.
2. **Ermolayev, V., Gorodetski, V., Jentzsch, E., Matzke, W.-E.:** Modeling and Simulation of Dynamic Engineering Design Processes. **Tutorial** at ER 2005. In: J. Akoka et al. (Eds.): ER Workshops 2005, Klagenfurt, Austria, October 24-28, Springer LNCS 3770, pp. 470 – 472, 2005

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1. **V. A. Ermolayev,** CT Techno Cookee. CT technologies DB Management System. User's Guide. Charmilles Technologies SA, CH-1217 Meyrin Geneve Switzerland, 1995, 84 p.
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TEXTBOOKS AND TEACHING MATERIALS

1. **V. A. Ermolayev, O. R. Onischuk:** Computer Software. Data Structures and Algorithms. Zaporozhye, ZNU, 2005, 60p.
2. **V. A. Ermolayev** Agent Technologies on the Semantic Web. Electronic teaching materials. Zaporozhye, ZSU, Jyvaskyla, Univ. of Jyvaskyla, 2005, e-Book URL: <http://ermolayev.com/asw/>
3. **V. A. Ermolayev** Knowledge Bases and Expert Systems. Electronic teaching materials. Zaporozhye, ZHUSMG, 2005, e-Book URL: <http://virtuni.education.zp.ua/lib/program/eva/OKB/e-book/>

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INVITED TALKS, PANELS, SIG REPORTS

1. **Vadim Ermolayev:** Ontologies in Agent-Enabled Distributed Information Retrieval. Talk at the Meeting of AgentLink III TFG on Intelligent Information Agents for Web Economies, Rome, 30.06.2004
2. **Vadim Ermolayev:** Semantic Web Technologies in UnIT-Net Infrastructure for Electronic Data Interchange. Plenary Talk at UkrPROG'04, Kiev, 02 June, 2004
3. **Vadim Ermolayev:** Towards Cooperative Distributed Service Composition on the Semantic Web. IFI, University of Klagenfurt, Austria, 06.02.2003.
4. **Vadim Ermolayev and Nicola Guarino:** Web-based Ontology Discussion. Presentation at OntoWeb Content Standards SIG meeting, Innsbruck, Austria, 17.12.2002
5. **Vadim Ermolayev, Nicola Guarino, Heinrich Mayr (Mod.), John Morris, Jari Palomäki, Bernhard Thalheim, Yair Wand:** Do we need an Ontology of Ontologies? Panel discussion at ER'2002, Tampere, Finland, 10.10.2002
6. **Ermolayev, V. A.:** Software Agents for Business Process Modelling and Management in Micro-economic Systems Invited talk at VII Ukrainian national Conference on the Problems of Economical Cybernetics (PEC'2002), Zaporozhye, Ukraine, Sept. 11-13, 2002
7. **V. A. Ermolayev:** Development of Information Resources in Regional Scientific and Educational Networks. Inv. Talk at the Intl. Symposium on Contemporary IT for Libraries and Management of Scientific and Educational Networks. Kiev, Oct. 2001
8. **V. A. Ermolayev:** Dynamic Agent Coalitions for Mediating EC B2B Activities. The talk at the Division of Mathematics and Computer Science of Vrije University Amsterdam, 04.2001
9. **S. U. Borue, V. A. Ermolayev, V. A. Tolok:** Evolving Agent Communities for Intelligent Information Processing in WEB-Based Enterprise-Wide Information Systems. Inv. talk at Intl. Conference on Intelligent Information Processing (IIP'2000), Crimea, Ukraine, 12-16 June 2000.
10. **V. A. Ermolayev, V. A. Tolok:** Interfaces and Human - Agent Interaction in Virtual Information Spaces. AgentLink SIG on Intelligent Information Agents meeting, London, GB, Apr. 21-23, 1999
11. **V. A. Ermolayev, V. A. Tolok:** Perspectives of Intelligent Agent R&D for Organisational Management and Teaching in Eastern Europe. AgentLink SIG on Intelligent Information Agents meeting, London, GB, Apr. 21-23, 1999
12. **V. A. Ermolayev, V. A. Tolok:** Intelligent Agents in the Architecture of Unified Information Space of a Virtual University. AgentLink SIG on Intelligent Information Agents meeting, Brussels, Belgium, Sept. 22-24, 1998
13. **V. A. Ermolayev:** Active Data Dictionary Approach in Database Application Design. Invited talk at the Seminar of the Institute of Informatics, Umea University, Sweden, Nov. 1993.