## VLADIMIR ALEKSANDROVICH SMIRNOV'S WORKS

[1] Is classical formal logic universal logic? Proc. of 1st Conf. of Dept. of Soc. Sciences, Tomsk, 1958 (in Russian).

[2] On the theory of the categorical syllogism. Filosofskie nauki, 1959, no. 3 (in Russian).

[3] On the possibility of a general theory of systems. Proc. of 2nd Conf. of Dept. of Soc. Sciences, Tomsk, 1959 (in Russian).

[4] (with V. N. Sadovsky). Conference in Logic and Methodology of Science. Scientific information. Voprosy Filosofii, 1960, no. 10 (in Russian).

[5] The role of symbolization and formalization in cognitive processes. Proc. University of Tomsk, Tomsk, 1960 (in Russian).

[6] So-called abstract objects and R. Carnap's theory of language frameworks. Dialectical Materialism and Modern Positivism, Moscow, 1961 (in Russian).

[7] Genetic method for scientific theory construction. Philosophical Problems of Contemporary Formal Logic, Nauka, Moscow, 1962 (in Russian).

[8] Some conclusions from the comparison of Markov's normal algorithms with Lyapunov's algorithm schemata.Proc. University of Tomsk, Tomsk, 1962 (in Russian).

[9] N. A. Vasiliev's logical ideas. Essays in the History of Logic in Russia, Moscow State University, Moscow, 1962 (In Russian).

[10] Notes on syllogistics and general theory of deduction. Problems of Logic, Nauka, Moscow, 1963 (in Russian).

[11] Algorithms and algorithm logical schemata. Problems of Logic, Nauka, Moscow, 1963 (in Russian).

[12] On the reputation and mistakes of one philosophical conception (critical notes on R. Carnap's theory of language frameworks). Philosophy of Marxism and Neopositivism, Moscow State University, Moscow, 1963 (in Russian).

[13] (with I. S. Narsky and P. V. Kopnin). Serious shortages of books on materialistic dialectics. Voprosy Filosofii, 1964, no. 4 (in Russian).

[14] Levels of knowledge and stages in the process of knowledge. Problems of Logic of Scientific Knowledge, Nauka, Moscow, 1964 (in Russian).

[15] Logical systems with formulae similar to schemes of derivability. Logical Structure of Scientific Knowledge, Nauka, Moscow, 1965 (in Russian).

[16] Models of language and models of world. Problems of Logic of Scientific Knowledge, Nauka, Moscow, 1965 (in Russian).

[17] Artificial languages as a tool for analysis of thought. Reports of discussion: "Language and Thought", Moscow, 1965 (in Russian).

[18] Review of the book by N. I. Styazhkin, "Formation of Ideas of Mathematical Logic", Voprosy Filosofii, 1966, no. 7 (in Russian).

[19] Embedding of syllogistics into predicate calculus. Logical Semantics and Modal Logic, Nauka, Moscow, 1967 (in Russian).

[20] Models of the world in the structure of logical languages. Logic and Methodology of Science, Nauka, Moscow, 1967 (in Russian).

[21] Wissensebenen und Etappen des Erkenntnis. Studien zur Logik der Wissenschaftlichen Erkentnnis, Berlin, 1967.

[22] Rules of inference. Filosofskaya Entsiklopediya, Moscow, 1967 (in Russian).

[23] The law of contradiction. Filosofskaya Entsiklopediya, Moscow, 1967 (in Russian).

[24] Natural deduction and transformation analysis. Proc. 14th Int. Congr. of Philos., Moscow, 1968 (in Russian).

[25] (with I. A. Akchurin, Y. A. Ershov, and V. N. Sadovsky). *Third International Congress of Logic, Methodology and Philosophy of Science*. Scientific and Technical Information, ser. 2, 1969 (in Russian).

[26] So-called paradoxes of material implication and logical systems with the notion of strong deduction. Investigations in Logical Systems. Nauka, Moscow, 1970 (in Russian).

[27] Syllogistics without the law of excluded middle. Investigations in Logical Systems. Nauka, Moscow, 1970 (in Russian).

[28] Levels of knowledge and stages of the knowledge process. Problems of Logic of Scientific Knowledge. Reidel, Dordrecht, 1970.

[29] Elimination des termes dans la logique intuitioniste. Revue Intern. de Philos. vol. 298, 1971, no. 4.

[30] On the decidability of the decision problem for the sequent calculus of predicates without contractions. Proc. 4th Int. Congr. of Logic, Method. and Philos. of Science, Bucharest, 1971.

[31] Syllogistics in sequent form without propositional calculus. Filosofskie Nauki, 1972, no. 3 (in Russian).

[32] Formal Deduction and Logical Calculi. Nauka, Moscow, 1972 (in Russian).

[33] On the problem of the interrelation between symbolic logic and philosophy. Problems of Logic, Methodology and Philosophy of Science, Erevan, 1972 (in Russian).

[34] Fourth International Congress of Logic, Methodology and Philosophy of Science. Voprosy Filosofii, 1972, no. 2 (in Russian).

[35] Review of the book by O. F. Serebriannikov, "Heuristic Principles and Logical Calculi". Voprosy Filosofii, 1972, no. 8 (in Russian).

[36] The problem of empirical and theoretical knowledge in cognitology and methodology. Methodological Grounds of the Theory of Scientific Knowledge, Sverdlovsk, 1973 (in Russian).

[37] An absolute first-order predicate calculus. Bulletin of the Section of Logic, Polish Academy of Sciences, 1973.

[38] (with P. S. Tavanets). On interrelations between symbolic logic and philosophy. Philosophy in the Contemporary World. Philosophy and Logic, Nauka, Moscow, 1974 (in Russian).

[39] On the definability of the predicates introduced by two-sided recursion propositions. Theory of Logical Inference. Part II, Moscow, 1974 (in Russian).

[40] Sequent versions of logical systems with strong and relevant implication. Theory of Logical Inference. Part II, Moscow, 1974 (in Russian).

[41] *Introduction* to the book "Problems of Logic and Methodology of Science". Institute for Scientific Information in Social Sciences, Moscow, 1974 (in Russian).

[42] Introductory article to the Russian translation of Ingols's book "Logic Navja-Njaja". Nauka, Moscow, 1974 (in Russian).

[43] A new form of deduction theorem for P, E, and R. Abstracts 5th Intern. Congr. of Logic, Method. and Philos. of Science, Montreal, 1975.

[44] (with I. A. Akchurin, Yu. L. Ershov, and V. N. Sadovsky). Fifth International Congress of Logic, Methodology and Philosophy of Science. Voprosy Filosofii, 1976, no. 5 (in Russian). [45] (with V. N. Sadovsky). Definability and identifiability: certain problems and hypotheses. Basic Problems of Methodology and Linguistics. Part Three of the Proc. the Fifth Intern. Congr. of Logic, Method. and Philos. of Science (London, Ontario, Canada, 1975). Dordrecht, Boston, 1977.

[46] (with V. N. Sadovsky). Complete and incomplete definability in firstorder theories. Methods of logical analysis. Nauka, Moscow, 1977 (in Russian).

[47] Logics with modal and temporal operators. Abstracts of the Conference "Modal and Intensional Logics", Moscow, 1978 (in Russian).

[48] Formal deduction, deduction theorems, and theories of implication. Logical Deduction, Nauka, Moscow, 1979 (in Russian).

[49] Theory of quantification and  $\varepsilon$ -calculi. Essays on Mathematical and Philosophical Logic. Dordrecht, 1979.

[50] Logical systems with modal and tense operators. Proc. of 2nd Finnish-Soviet Logical Symposium, Moscow, 1979 (in Russian).

[51] Logical systems with modal temporal operators. Abstracts of 6th Intern. Congr. of Logic, Method. and Philos. of Science, Hannover, 1979.

[52] (with V. A. Bocharov, E. K.Vojshvillo, and A. G. Dragalin). Some problems of the development of logic. Voprosy Filosofii, 1979, no. 6 (in Russian).

[53] A new definition of modal operators by means of temporal operators. Modal and Tense Logics, Moscow, 1979 (in Russian).

[54] Adequate translation of syllogistic assertions into predicate calculus. Actual Problems of Logic and Methodology, Naukova Dumka, Kiev, 1980 (in Russian).

[55] Problems of logic and philosophy of mathematics. Voprosy Filosofii, 1980, no. 8 (in Russian).

[56] Logical rendszerek modalis idoperatorokkal. A filosofia idoczeru kerdesei, 42, 1980.

[57] (with V. N. Sadovsky). Hintikka and the development of epistemological investigations in the second part of XX century. Preface to J. Hintikka Logical and Epistemological Investigations, Progress, Moscow, 1980 (in Russian).

[58] Modern semantical investigations in modal and intensional logics. Semantics of Modal and Intensional Logics, Progress, Moscow, 1981 (in Russian).

[59] On logical relations between theories. Ideals and Norms of Scientific Knowledge, Minsk, 1981 (in Russian).

[60] Significance of axiomatization of scientific theories for elaboration of the methodology of science. Abstracts of 8th All-Union Conf. on Philos. Problems of Natural Sciences, Moscow, 1981 (in Russian).

[61] Tense logics with non-standard conditions of conjugation for past and future. Modal and Intensional Logics. Moscow, 1982 (in Russian).

[62] Embedding of S. Lesnievwski's elementary ontology into monadic second-order predicate calculus. Modal and relevant logics. Proceedings of the Scientific Seminar of Institute of Philosophy, Academy of Sciences of the USSR, Moscow, 1982 (in Russian).

[63] Embedding of the syllogistic system C2 into first-order predicate calculus. 6th All-Union Conference of Mathematical Logic, Tbilisi, 1982 (in Russian).

[64] The definition of modal operators by means of tense operators. Acta Philosophica Fennica, vol. 235, 1982.

[65] Logical methods of comparison of theories. Voprosy Filosofii, 1983, no. 6 (in Russian).

[66] Tense logics with non-standard interconnection between past and future. Proceedings of the 7th International Congress of Logic, Methodology and Philosophy. of Science, Vol. 2, Salzburg, 1983.

[67] Logische Beziehungen zwischen wissenschaftlichen Theorien. Logik, Methodologie und Wissenschaft, Moscow, 1983 (in German).

[68] A sequent form of Dummett's logic. Semiotical Aspects of Formalization of Mental Activity, Moscow, 1983 (in Russian).

[69] Topological interpretation of modal syllogistics. Proc. of Symp. on Aristotle's Logic, Metsniereba, Tbilisi, 1983 (in Russian).

[70] Embedding of the positive syllogistics into monadic predicate calculus. Logical Investigations. Proceedings of the Scientific Seminar of the Institute of Philosophy, Academy of Sciences of the USSR, Moscow, 1983 (in Russian).

[71] Definitional equivalence of extended syllogistics C2D and Boolean algebra. Logical Investigations. Proceedings of the Scientific Seminar of the Institute of Philosophy, Academy of Sciences of the USSR, Moscow, 1983 (in Russian).

[72] Embedding of S. Lesniewski's elementary ontology into the monadic second-order calculus of predicates. Studia Logica, vol. XLII, nos. 2–3, 1983.

[73] Logic, foundations of mathematics and linguistics. Voprosy Filosofii, 1984, no. 1 (in Russian).

[74] On a system of paraconsistent logic. Many-valued, Relevant and Paraconsistent Logics. Proceedings of the Scientific Seminar of Institute of Philosophy, Academy of Sciences of the USSR, Moscow, 1984 (in Russian).

[75] The definition of modal operators by means of tense operators. Modal and Intensional Logics and Their Application to Methodology of Science. Nauka, Moscow, 1984 (in Russian).

[76] Logical systems with modal temporal operators. Modal and Intensional Logics and Their Application to Methodology of Science. Nauka, Moscow, 1984 (in Russian). [77] *Reconstruction of modal syllogistics*. Intensional Logics and Structure of Scientific Theories. Metsniereba, Tbilisi, 1985 (in Russian).

[78] Symbolic logic and cognitive science. Philosophy and Sociology of Science and Technology. Nauka, Moscow, 1985 (in Russian).

[79] Logical relations between theories. Synthèse, vol. 266, 1986.

[80] G. H. von Wright's contribution to logic and philosophy of science. Preface to G. H. von Wright's "Logical and Philosophical Investigations. Selected Works." Progress, Moscow, 1986 (in Russian).

[81] Assertion and predication. Propositional logic and logic of events. Non-standard Semantics of Non-classical Logics. Nauka, Moscow, 1986 (in Russian).

[82] Creative activity, discovery and logical methods of proof search. The Nature of Scientific Discovery, Moscow, 1986 (in Russian).

[83] Significance of the method of logical reconstruction for the history of logic and philosophy. Philosophical Problems of Logic and Its History, Part II, Moscow, 1986 (in Russian).

[84] Methods of formulation for quantum systems and their logical semantics. Abstracts of Conference in Quantum Logic. Moscow State University, 1986 (in Russian).

[85] Modality "de re" and Vasiliev's imaginary logic. Logique et Analyse, vol. 114, 1986.

[86] Logical analysis of scientific theories and the relations between them. Logic of Scientific Knowledge, Nauka, Moscow, 1987 (in Russian).

[87] Logical Methods of Analysis of Scientific Theories. Nauka, Moscow, 1987 (in Russian)

[88] Sentence, assertion and proposition. Abstracts of Conference in Propositional Attitudes. Moscow, 1987 (in Russian).

[89] Logical analysis of scientific theories and their relations. Logic of Scientific Knowledge. Nauka, Moscow, 1987 (in Russian).

[90] Actual philosophical investigation. Philosophy and Sociology of Science and Technology. Moscow, 1987 (in Russian).

[91] N. A. Vasiliev's logical ideas and modern logic. Abstracts of 8th Intern. Congr. of Logic, Method. and Philos. of Science, Moscow, 1987.

[92] Assertion and predication. Combined calculus of propositions and situations. Abstracts of the 8th Intern. Congr. of Logic, Method. and Philos. of Science, Moscow, 1987.

[93] Epistemology and symbolic logic. Science as a subject of study. Social Sciences Today, Moscow, 1987.

[94] Strict embedding of the elementary ontology into the monadic predicate calculus admitting empty individual domain. Studia Logica, vol. XLVI, 1987.

[95] Problems of investigation of language and analytic philosophy. Voprosy Filosofii, 1988, no. 8 (in Russian).

[96] The dialectics of exactness and inexactitude in modern scientific knowledge. Voprosy Filosofii, 1988, no. 12 (in Russian).

[97] Intensional logics and the logical structure of theory. Proc. 4th Finnish-Soviet Logical Symposium, Tbilisi, 1988 (in Russian).

[98] Statement and predication. Combined calculus of sentences and events. Intensional Logic, History of Philosophy and Methodology. To Imre Ruzsa on occasion of his 65th Birthday, Budapest, 1988.

[99] (with S. N.Artjomov). Logic and its perspectives. Voprosy Filosofii, 1988, no. 6 (in Russian).

[100] Internal and external logic. Bulletin of the Section of Logic, vol. 17, nos. 3-4, 1988.

[101] Assertion and predication. Combined calculi of propositions and events. Syntactic and Semantical Investigations in Non-extentional Logics. Nauka, Moscow, 1989 (in Russian).

[102] Combining of the calculi of sentences and events with von Wright's logic of truth. Investigations of Non-classical Logics, Nauka, Moscow, 1989 (in Russian).

[103] N. A. Vasiliev's logical ideas and modern logic. Preface to Vasiliev's "The Imaginary Logic", Nauka, Moscow, 1989 (in Russian).

[104] Creation, discovery, and logical methods of proofs. Filosofskaya i sotsiologicheskaya mysl', Kiev, 1989 (in Russian).

[105] N. A. Vasiliev's logical ideas and modern logic. Proc. of 8th Intern. Congr. of Logic, Method. and Philos. of Science, Amsterdam, New York, 1989.

[106] Kant and modern logic. Kantovskij Sbornik, no. 14, Kaliningrad, 1989 (in Russian).

[107] Logical analysis of Kant's theory of justice and morality. Kantovskij Sbornik, no. 15, Kaliningrad, 1990 (in Russian).

[108] (with P. I. Bystrov). *First-order predicate logic*. Logic and the Computer, Nauka, Moscow, 1990 (in Russian).

[109] *Proof-search*. Logic and the computer, Nauka, Moscow, 1990 (in Russian).

[110] On multidimensional logics and their relations with many-valued logics. Proc. of 10th Conf. of Logic, Method. and Philos. of Science, Minsk, 1990 (in Russian).

[111] Problems of truth in logical semantics. Theory of Cognition, vol. 2, Mysl', Moscow, 1991. (in Russian)

[112] Multidimensional logics. Abstr. of 9th Intern. Congr. of Logic, Method. and Philos. of Science, Uppsala, 1991.

[113] M. K. Mamardashvili: philosopher of consciousness. Kommunist, 1991, no. 8 (in Russian).

[114] In memory of Professor O. F. Serebriannikov. Voprosy Filosofii, 1992, no. 10 (in Russian).

[115] A. I. Rakitov: philosopher of the computer revolution. Voprosy Filosofii, 1993, no. 1 (in Russian).

[116] Double algebras and symmetric logics. Logical Investigations, vol. II, Nauka, Moscow, 1993 (in Russian).

[117] Cut-elimination in the  $\varepsilon$ -calculus. Book of Abstracts, vol. 1, XIX International Congress of Philosophy, Moscow, 1993.

[118] Definitional equivalence of Lesniewski's ontology and generalized syllogistics with axiom of atomicity. Logical Investigations, vol. 2, Nauka, Moscow, 1993 (in Russian).

[119] Multidimensional logics. Logical Investigations, vol. 2, Nauka, Moscow, 1993 (in Russian).

[120] Definitional equivalence of elementary ontology and generalized syllogistics of Ockhamian type. Preprint 93-03, Institute for Logic, Cognitive Sciences and Development of Personality, Moscow, 1993.

[121] Definitional equivalence of the syllogistic systems. Preprint 93-03, Institute for Logic, Cognitive Sciences and Development of Personality, Moscow, 1993.

[122] (with V. A. Melentjev, et al.). Logic and Clinical Diagnostics: Theoretical Basis, Nauka, Moscow, 1994 (in Russian).

[123] Definitional equivalence of different systems of syllogistics. Proceedings of the Research Logical Seminar of Institute of Philosophy, Russian Academy of Sciences, Moscow, 1994 (in Russian).

[124] Reminiscences about a teacher. Voprosy Filosofii, 1995, no. 1 (in Russian).

[125] Popper is right: dialectical logic is impossible. Voprosy Filosofii, 1995, no. 1 (in Russian).

[126] *Proof-search in natural intuitionistic predicate calculus*. XI Intern. Conf. of Logic, Method. and Philos. of Science, vol. II, Moscow-Obninsk, 1995 (in Russian).

[127] Proof search in natural intuitionistic predicate calculus with  $\varepsilon$ -symbol and the predicate of existence. Logical Investigations, vol. 3, Nauka, Moscow, 1995 (in Russian).