

To: dxm@ams.org
Subject: Identifying papers of Dr. A.A. Shalyto

Hello!

This is a reply to the following paper letter:

Original letter heading:

From:

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A division of the
American Mathematical Society

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September 18, 2006

To:

Dr. A.A. Shalyto
Department of Programming Technologies Department
St. Petersburg State University of Information Technologies, Mechanics and Optics
(SPbSU ITMO))
197101, St. Petersburg
RUSSIA

Original letter text:

Dear Dr. Shalyto:

Mathematical Reviews would like to ask your help in identifying your papers in our bibliographic files so that they may be presented properly in our publications.

Below is a list of bibliographic entries which you may have written.

1. *Shalyto, A. A.*, Classification of structures generated by one-dimensional binary cellular automata from a point embryo (Russian), *Izv. Ross. Akad. Nauk. Teor. Sist. Upr.* 2005, no. 5, 137–145; MR2243113
2. *Shalyto, A. A.*, Methods for constructing multifunctional logic modules (Russian), *Izv. Akad. Nauk. Teor. Sist. Upr.* 2004, no. 6, 100–112; MR2135417
3. *Shalyto, A. A.* and *Tukkel', N. I.*, Transformation of iterative algorithms into automaton ones (Russian), *Programirovanie.* 2002, no. 5, 12–26; MR2023634
4. *Shalyto, A. A.*, Decomposition of Boolean functions with respect to the right-most input variables of the truth tables (Russian), *Izv. Akad. Nauk. Teor. Sist. Upr.* 2003, no. 4, 62–68; MR 2004k: 94103
5. *Shalyto, A. A.*, A multiplexer method for the realization of Boolean functions by circuits made of arbitrary logic elements (Russian), *Izv. Akad. Nauk Teor. Sist. Upr.* 2003, no. 1, 105–109; MR2001013

6. *Shalyto, A. A.*, Realization of Boolean formulas and Boolean functions by homogeneous structures (Russian). *Izv. Akad. Nauk Teor. Sist. Upr.* 2002, no. 2, 104–112; MR 2003i:94081
7. *Kondrat'ev, V. N. and Shalyto, A. A.*, Realization of systems of Boolean functions by linear arithmetic polynomials with masking (Russian), *Avtomat. i Telemekh.* 1997, no. 3, 200–215; MR 98i:94055
8. *Kuznetsov, B. P. and Shalyto, A. A.*, Realization of Boolean formulae by linear binary graphs. II Estimates of the number and the total length of routes (Russian), *J. Comput. Systems Sci. Internat.* 34 (1996), no. 4, 65–74; MR 1409247
9. *Kondrat'ev, V. N. and Shalyto, A. A.*, Realization of Boolean functions by a linear arithmetic polynomial with masking (Russian), *Avtomat. i Telemekh.* 1996, no. 1, 158–170; MR 97b:94052
10. *Kondrat'ev, V. N. and Shalyto, A. A.*, Realization of systems of Boolean functions using linear arithmetic polynomials (Russian), *Avtomat. i Telemekh.* 1993, no. 3, 135–151; MR1225453
11. *Artyukhov, V. L., Kondrat'ev, V. N. and Shalyto, A. A.*, Realization of Boolean functions by arithmetic polynomials (Russian), *Avtomat. i Telemekh.* 1988, no. 4, 138–147; MR 89i:94055
12. *Kuznetsov, B. P. and Shalyto, A. A.*, A set of transformations of certain forms of representation of Boolean functions (Russian), *Avtomat. i Telemekh.* 1985, no. 11, 120–127; MR 87d:06049
13. *Artyukhov, V. L., Kopeikin, G. A. and Shalyto, A. A.* *Automate and Remote Control.* 1981, no. 11, 1532–1538 (1982); translated from; MR 84g: 94023

Please indicate which articles are yours and return this letter.

We would appreciate hearing from you and have enclosed a return envelope to expedite your reply.

Thank you,
Denise Martins Morales
Technical Library Assistant

227047

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Original letter text ends here

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Hello, dear Denise Martins Morales!

Below is the list of the articles you were interested in with some notes on how the names of these articles should be read properly. Links to corresponding internet pages on the sites of publishers of journals in which these articles were published are also given, where possible (year 2000 and after).

1. *Shalyto, A. A.*, Classification of structures generated by one-dimensional binary cellular automata from a point embryo (Russian), *Izv. Ross. Akad. Nauk Teor. Sist. Upr.* 2005, no. 5, 137–145; MR2243113

should be as follows:

Naumov L.A., Shalyto A.A. Classification of Structures Generated by One-Dimensional Binary Cellular Automata from a Point Embryo //Journal of Computer and Systems Sciences International, Vol. 44, No. 5, 2005, pp. 800–807.

(Translated from *Izvestiya Akademii Nauk. Teoriya i Sistemy Upravleniya*, No. 5, 2005, pp. 137–145.

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http://www.maik.ru/contents/compsys/compsys5_5v44cont.htm

2. *Shalyto, A. A.*, Methods for constructing multifunctional logic modules (Russian), *Izv. Akad. Nauk. Teor. Sist. Upr.* 2004, no. 6, 100–112; MR2135417

should be read as follows:

Shalyto A.A. Methods for Constructing Multifunctional Logic Modules //Journal of Computer and Systems

Sciences International. 2004. Vol. 43. No. 6, p. 923–935.
http://www.maik.ru/contents/compsys/compsys6_4v43cont.htm

3. **Shalyto, A. A. and Tukkel', N. I.**, Transformation of iterative algorithms into automaton ones (Russian), *Programmirovanie* 2002, no. 5, 12–26; MR2023634

should be read as follows:

Shalyto A.A., Tukkel N.I. Translating Iterative Algorithms into Automaton Ones //Programming and Computer Software. 2002. Vol. 28, No. 5, pp. 250–260.
<http://www.ingentaconnect.com/content/maik/pacs/2002/00000028/00000005/00454429>

4. **Shalyto, A. A.**, Decomposition of Boolean functions with respect to the right-most input variables of the truth tables (Russian), *Izv. Akad. Nauk. Teor. Sist. Upr.* 2003, no. 4, 62–68; MR 2004k: 94103

should be read as follows:

Shalyto A.A. Decomposition of Boolean Functions with Respect to the Right-Most Input Variables of Truth Tables //Journal of Computer and Systems Sciences International. 2003. Vol. 42. No. 4, p. 555–561.
http://www.maik.ru/contents/compsys/compsys4_3v42cont.htm

5. **Shalyto, A. A.**, A multiprocessor method for the realization of Boolean functions by circuits made of arbitrary logic elements (Russian), *Izv. Akad. Nauk. Teor. Sist. Upr.* 2003, no. 1, 105–109; MR2001013

should be read as follows:

Shalyto A.A. Multiplexor Method for Realization of Boolean Functions by Circuits Composed of Arbitrary Logical Elements //Journal of Computer and Systems Sciences International. 2003. Vol. 42. No. 1, p. 101–105.
http://www.maik.ru/contents/compsys/compsys1_3v42cont.htm

6. **Shalyto, A. A.**, Realization of Boolean formulas and Boolean functions by homogeneous structures (Russian). *Izv. Akad. Nauk. Teor. Sist. Upr.* 2002, no. 2, 104–112; MR 2003i:94081

should be read as follows:

Shalyto A.A. Realization of Boolean Formulas and Boolean Functions by Homogeneous Structures //Journal of Computer and Systems Sciences International. 2002. Vol. 41. No. 2, p. 264–273.
http://www.maik.ru/contents/compsys/compsys2_2v41cont.htm

7. **Kondrat'ev, V. N. and Shalyto, A. A.**, Realization of systems of Boolean functions by linear arithmetic polynomials with masking (Russian), *Avtomat. i Telemekh.* 1997, no. 3, 200–215; MR 98i:94055

should be read as follows:

Kondrat'ev V.N., Shalyto A.A. Implementation of Systems of Boolean Functions by Linear Arithmetic Polynomials with Masking //Automation and Remote Control. 1997. Vol. 58. No. 3.

8. **Kuznetsov, B. P. and Shalyto, A. A.**, Realization of Boolean formulae by linear binary graphs. II Estimates of the number and the total length of routes (Russian), *J. Comput. Systems Sci. Internat.* 34 (1996), no. 4, 65–74; MR 1409247

should be read as follows:

Kuznetsov B.P., Shalyto A.A. Realization of Boolean Formulas by Linear Binary Grafts. II. Estimations of Number and Total Length of Paths //Journal of Computer and Systems Sciences International. 1995. Vol. 34. No. 3

9. **Kondrat'ev, V. N. and Shalyto, A. A.**, Realization of Boolean functions by a linear arithmetic polynomial with masking (Russian), *Avtomat. i Telemekh.* 1996, no. 1, 158–170; MR 97b:94052

should be read as follows:

Kondrat'ev V.N., Shalyto A.A. Realization of Boolean Functions by One Liner Arithmetic Polinomial with

Masking //Automation and Remote Control. 1996. Vol. 57. No. 1, p. 127–137.

10. **Kondrat'ev, V. N. and Shalyto, A. A.**, Realization of systems of Boolean functions using linear arithmetic polynomials (Russian), *Avtomat. i Telemekh.* 1993, no. 3, 135–151; MR1225453

should be read as follows:

Kondrat'ev V.N., Shalyto A.A. Realization of Systems of Boolean Functions by Liner Arithmetic Polinomials //Automation and Remote Control. 1993. Vol. 54. no. 3, 472– 488.

11. **Artyukhov, V. L., Kondrat'ev, V. N. and Shalyto, A. A.**, Realization of Boolean functions by arithmetic polynomials (Russian), *Avtomat. i Telemekh.* 1988, no. 4, 138–147; MR 89i:94055

should be read as follows:

Artyukhov V.L., Kondrat'ev V.N., Shalyto A.A. Generating Boolean Functions Via Arithmetic Polinomials //Automation and Remote Control. 1988. Vol. 49. No. 4, p. 508 – 515.

12. **Kuznetsov, B. P. and Shalyto, A. A.**, A set of transformations of certain forms of representation of Boolean functions (Russian), *Avtomat. i Telemekh.* 1985, no. 11, 120–127; MR 87d:06049

should be read as follows:

Kuznetsov B.P., Shalyto A.A. System of Transformations of Certain Representations of Boolean Functions //Automation and Remote Control. 1985. Vol.46. No. 11, p. 1450–1457.

13. **Artyukhov, V. L., Kopeikin G. A. and Shalyto A. A.**, *Automat. Remote Control* 1981, no. 11, 1532–1538 (1982); translated from ; MR 84g:94023

should be read as follows:

Artyukhov V.L., Kopeikin G.A., Shalyto A.A. Bounds on the Realization Complexity of Boolean Formulas by Tree Circuits of Tunable Modules //Automation and Remote Control. 1982. Vol. 42. No. 11, p. 1532-1537.

All of the papers listed above are written by Dr. A.A. Shalyto (with co-authors, where indicated).

Also you can look at the list of journals being published by International Academic Publishing Company (IAPC, <http://www.maik.ru/>):
<http://www.maik.ru/eng/journals/list1.htm>
<http://www.ingentaconnect.com/content/maik>

Below is the list of all publications of **Dr. A.A. Shalyto in English.**

1. **Artyukhov V.L., Kopeikin G.A., Shalyto A.A.** Estimation of the Logical Efficiency of Integrated Microcircuitry //Automatic Control and Computer Sciences. 1981. Vol.22. № 1, p.32–34.
2. **Artyukhov V.L., Kopeikin G.A., Shalyto A.A.** Bounds on the Realization Complexity of Boolean Formulas by Tree Circuits of Tunable Modyles //Automation and Remote Control. 1982. Vol.42. № 11, p.1532–1537.
3. **Artyukhov V.L., Kuznetsov B.P., Shalyto A.A.** Tunable Binary Procedures and Programs with Loops //Automation and Remote Control. 1984. Vol.45. № 11, p.1481–1488.
4. **Kuznetsov B.P., Shalyto A.A.** Structural Approach to Software Implementation of Boolean Functions //Automatic Control and Computer Sciences. 1985. Vol.26. № 5, p.80–83.
5. **Artyukhov V.L., Shalyto A.A., Kuznetsova O.S.** Evaluation of the Functional Capabilities of Programmable Logical Arrays //Automatic Control and Computer Sciences. 1985. Vol.26. № 2, p.69–73.
6. **Kuznetsov B.P., Shalyto A.A.** System of Transformations of Certain Representations of Boolean Functions //Automation and Remote Control. 1985. Vol.46. № 11, p.1450–1457.

7. **Rubinov V.I., Shalyto A.A.** Method of Constructing Flowcharts of Simple Binary Programs for Systems of Boolean Functions //Automatic Control and Computer Sciences. 1986. Vol.27. № 4, p.82-87.
8. **Sagalovich Yu., Shalyto A.A.** Binary Programs and Their Realization by Asynchronous Automata //Problems of Information Transmission, 1987. № 1, p.74-80.
9. **Rubinov V.I., Shalyto A.A.** Design of Flowcharts of Binary Programs for Systems of Boolean Functions Specified by Truth Tables //Automatic Control and Computer Sciences. 1988. Vol.29. № 1, p.79-83.
10. **Artyukhov V.L., Kondrat'ev V.N., Shalyto A.A.** Generating Boolean Functions Via Arithmetic Polinomials //Automation and Remote Control. 1988. Vol.49. № 4, p.508–515.
11. **Kondrat'ev V.N., Shalyto A.A.** Realization of Systems of Boolean Functions by Liner Arithmetic Polinomials //Automation and Remote Control. 1993. Vol.54. № 3, p.472–488.
12. **Kuznetsov B.P., Shalyto A.A.** Realization of Boolean Formulas by Linear Binary Grafts. I. Synthesize and Analysis //Journal of Computer and Systems Sciences International. 1994. Vol.33. № 5.
13. **Kuznetsov B.P., Shalyto A.A.** Realization of Boolean Formulas by Linear Binary Grafts. II. Estimations of Number and Total Length of Paths //Journal of Computer and Systems Sciences International. 1995. Vol.34. № 3.
14. **Kuznetsov B.P., Shalyto A.A.** Realization of Boolean Formulas by Linear Binary Grafts. III. Optimization of Number and Total Length of Paths //Journal of Computer and Systems Sciences International. 1995. Vol.34. № 5.
15. **Shalyto A.A.** Cognitive Properties of Hierarchical Representations of Complex Logical Structures //Proceeding of the 1995 International Symposium on Intelligent Control (ISIC). Work-shop. 1995. Monterey. California.
16. **Kondrat'ev V.N., Shalyto A.A.** Realization of Boolean Functions by One Liner Arithmetic Polinomial with Masking //Automation and Remote Control. 1996. Vol.57. № 1, p.127–137.
17. **Shalyto A.A.** Algorithmic Graph Schemes and Transition Graphs: Their Use in Software Realization of Logical Control Algorithms. I. //Automation and Remote Control. 1996. Vol.57. № 6, p.890–897.
18. **Shalyto A.A.** Algorithmic Graph Schemes and Transition Graphs: Their Use in Software Realization of Logical Control Algorithms. II. //Automation and Remote Control. 1996. Vol.57. № 7, p.1027–1045.
19. **Artyukhov V.L., Shalyto A.A.** Realization of Boolean Formulas by Uniform Multiplexor and Majority Cascades //Journal of Computer and Systems Sciences International. 1996. Vol.35. № 5, p.805 – 815.
20. **Kondrat'ev V.N., Shalyto A.A.** Implementation of Systems of Boolean Functions by Linear Arithmetic Polinomials with Masking //Automation and Remote Control. 1997. Vol.58. № 3.
21. **Shalyto A.A.** Modules with Paraphase Input Variables That are Universal in the Class of All Boolean Functions //Journal of Computer and Systems Sciences International. 1997. Vol.36. № 5, p.794-801.
22. **Kuznetsov B.P., Shalyto A.A.** The Method of Independent Fragments for Construction of Linearized Structured Graf-Charts of Algorithm that Implement Systems of Boolean Formulas //Automation and Remote Control. 1998. Vol.59. № 9.
23. **Kiselev V.V., Shalyto A.A.** Study of Transients in One-Contour Logical Circuits //Journal of Computer and Systems Sciences International. 1999. Vol.38. № 5.
24. **Shalyto A.A.** Software Automaton Design: Algorithmization and Programming of Problems of Logical Control //Journal of Computer and Systems Sciences International. 2000. Vol.39. №6, p.899–916.
25. **Shalyto A.A.** Modules Which Are Universal in the Class of Self-Dual Functions and in Close Classes //Journal of Computer and Systems Sciences International. 2001. Vol.40. №5, p.782–792.

26. **Shalyto A.A.** Logic Control and "Reactive" Systems: Algorithmization and Programming //Automation and Remote Control. 2001. Vol.62. №1, p.1–29.
27. **Shalyto A.A., Tukkel N.I.** SWITCH Technology: An Automated Approach to Developing Software for Reactive Systems //Programming and Computer Software. 2001. 27(5).
28. **Shalyto A.A., Tukkel N.I.** Translating Iterative Algorithms into Automation Ones //Programming and Computer Software. 2002. 28(5).
29. **Shalyto A.A.** Realization of Boolean Formulas and Boolean Functions by Homogeneous Structures //Journal of Computer and Systems Sciences International. 2002. Vol.41. №2, p.264–273.
30. **Shalyto A.A.** Multiplexor Method for Realization of Boolean Functions by Circuits Composed of Arbitrary Logical Elements //Journal of Computer and Systems Sciences International. 2003. Vol.42. №1, p.101–105.
31. **Shalyto A., Naumov L.** Automata Theory for Multi-Agent Systems Implementation //Proceedings of International Conference «Integration of Knowledge Intensive Multi-Agent Systems: Modeling, Exploration and Engineering». KIMAS-03.Boston: IEEE Boston Section. p.65–70.
32. **Shalyto A.A.** Decomposition of Boolean Functions with Respect to the Right-Most Input Variables of the Truth Tables //Journal of Computer and Systems Sciences International. 2003. Vol.42. № 4, p.555 – 561.
33. **Shalyto A., Naumov L.** Automata Programming as a Sort of Synchronous Programming //Proceedings of East-West Design & Test Conference (EWDTW-2003), Yalta, Ukraine, 2003, p.140–143.
34. **Shalyto A.** Techology of Automata-Based Programming. <http://is.ifmo.ru>; <http://codeproject.com>.
35. **Shalyto A., Naumov L.** New Initiative in Programming. Foundation for Open Project Documentation //Proceedings of East-West Design & Test Workshop (EWDTW-2004), Yalta, Ukraine, 2004, p.64–69. Version of this article was published in www.linuxsummit.org; <http://codeproject.com>
36. **Shalyto A.A.** Methods for Constructing Multifunctional Logic Modules //Journal of Computer and Systems sciences International. 2004. Vol.43. № 6, p.923–935.
37. **Naumov L., Korneev G., Shalyto A.** Methods of Object-Oriented Reactive Agents Implementation on the Basis of Finite Automata /2005 International Conference on "Integration of Knowledge Intensive Multi-Agent Systems: Modeling, Exploration and Engineering". KIMAS-05. Boston: IEEE Boston Section. 2005, p.460–465.
38. **Yartsev B., Korneev G., Kotov V., Shalyto A.** Automata-Based Programming of the Reactive Multi-Agent Control Systems /2005 International Conference on "Integration of Knowledge Intensive Multi-Agent Systems: Modeling, Exploration and Engineering". KIMAS-05. Boston: IEEE Boston Section. 2005, p.449–453.
39. **Gurov V.S., Mazin M.A., Narvsky A.S., Shalyto A.A.** UniMod: Method and Development of Reactive Object-Oriented Programs with Explicit States Emphasis /Proceedings 2005 of St. Petersburg IEEE Chapters. International Conference "110 Anniversary of Radio Invention". SPb ETU "LETI". 2005, p.106–110.
40. **Naumov L.A., Shalyto A.A.** Classification of Structures Generated by One-Dimensional Binary Cellular Automata from a Point Embryo //Journal of Computer and Systems Sciences International. 2005. Vol.44. № 5, p.800–807.
41. **Shalyto A.A.** Multifunctional Logic Modules Consisting of Elements with Bilateral Conductance //Journal of Computer and Systems Sciences International. 2006. Vol.45. №1, p.73–76.
42. **Shalyto A., Shamgunov N., Korneev G.** State Machine Design Patten / .NET Technologies 2006 - Shot communication papers conference proceedings. 4-th International Conference in Central Europe on .NET Technologies. University of West Bohemia. 2006, p.51–58.
43. **Paraschenko D., Shalyto A., Tsarev F.** Modeling Technology for One Class of Multi-Agent Systems with Automata Based Programming /Proceedings of 2006 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications (IEEE CIMSA- 2006). La Coruna. Spain. 2006,

p. 47–54.

Also you can look at the site of the Department of Programming Technologies of Saint-Petersburg State University of Information Technologies, Mechanics and Optics, <http://is.ifmo.ru/english/>, where some other articles of Dr. A.A. Shalyto are listed: http://is.ifmo.ru/articles_en/ and <http://is.ifmo.ru/english/publications/>.

Sincerely yours,
A.A. Shalyto