## Personal Information

* Name: Dr. Pál Dömösi
* Date of Birth: October 29, 1943
* Place of Birth: Munkács, [Hungary](http://www.fsz.bme.hu/hungary/intro.html)
* Family status: Married, wife is psychologist, 3 children
* Citizenship: Citizen and permanent resident of Hungary
* Office: Nyíregyháza College, Institute of Mathematics and Informatics
* Status: Professor Emeritus
* **Address :** College of Nyíregyháza, Institute of Mathematics and Informatics,
* Nyíregyháza, Sóstói út 31/B, H-4400 Hungary
* **Phone :** +36-42-599-400
* **E-mail :** domosi@nyf.hu

## Background Summary

Strong background in mathematics, cybernetics and theoretical computer science.   
Extensive research and teaching experience. Research management.   
Published many papers in leading journals.

## Education

* D.Sc. in Mathematics, National Board of Scientific Qualifications, Budapest, 1994
* Ph.D. in Mathematics, National Board of Scientific Qualifications, Budapest, 1983
* B.S. in Computer Science, József Attila University, Szeged, 1969
* B.S. in Mathematics with minor in Physics, József Attila University, Szeged, 1966

## Language Skills

* Hungarian: native
* English: fluent reading and speaking

## Employment

Professor Emeritus 2013-

Department of Mathematics and Informatics

College of Nyíregyháza, Nyíregyháza, Hungary

Professor 2008 - 2013

Department of Mathematics and Informatics

College of Nyíregyháza, Nyíregyháza, Hungary

Professor 2000 - 2008 (chairman 2002-)

Department of Computer Science, Faculty of Informatics

Debrecen University , Debrecen, Hungary

Professor 1994 - 1999   
Institute of Mathematics and Informatics   
Lajos Kossuth University of Debrecen   
Debrecen, Hungary

Associate Professor 1989 - 1994   
Institute of Mathematics and Informatics   
Kossuth Lajos University of Debrecen   
Debrecen, Hungary

Scientific Advisor 1982 - 1989   
Computer Center   
Kossuth Lajos University of Debrecen   
Debrecen, Hungary

Scholarship Holder 1979 - 1982   
Institute   of Mathematics and Computer Science   
Karl Marx University of Economics at Budapest   
Budapest, Hungary

Mathematician 1968 - 1979   
Department of Computer Science   
Building Co. of Southern Hungary   
Szeged, Hungary

Computer operator 1967 - 1968   
Computer Center   
József Attila University of Szeged   
Szeged, Hungary

Assistant Mathematician 1966 - 1967   
Hungarian Cable Works   
Szeged, Hungary

## Research Interest

I am mainly interested in the theory of formal languages and automata. In particular, first I was interested in the composition of abstract automata and the computational capacity of finite automata networks. Later I started a research in the combinatorial properties of certain formal languages. Recently I interested in cryptography based on finite abstract automata.

**Grands and Fellowships**

* JSPS (Japan Society for Promotion of Science) research fellowship for 2 months, Kyoto Sangyo University, Japan, 2014
* JSPS (Japan Society for Promotion of Science) research fellowship for 1 months, Kyoto Sangyo University, Japan, 2013
* JSPS (Japan Society for Promotion of Science) research fellowship for 10 months, Kyoto Sangyo University, Japan, 2010
* Research grant for 3 months from Direccion General de Universidades, Secretaria de Estado de Education y Universidades, Ministerio de Education, Cultura y Deporte (SAB2001-0081), Rovira i Virgii Universiry, Tarragona, Spain, 2009
* JSPS (Japan Society for Promotion of Science) research fellowship for 2x1 months, Kyoto Sangyo University, Japan, 2007
* Innovation Prize of Debrecen University, 2006
* JSPS research fellowship for 1 month, Kyoto Sangyo University, Japan, 2006
* Principal investigator of a research project entitled `Automata and Formal Languages', Hungarian NSF Grant No. T049409, 2005 - 2008
* Hungarian principal investigator of a French-Hungarian joint research project ,,Balaton", 2004-2005
* Hungarian principal investigator of a XEROX (U.S.A.) -Debrecen University (Hungary) joint research project, 2004-2006 given by Xerox University Affairs Committee (No 1478-2004)
* JSPS research fellowship for 10 months, Kyoto Sangyo University, Japan, 2004-2005
* JSPS research fellowship for 2 months, Kyoto Sangyo University, Japan, 2004
* Research grant for 6 months from Direccion General de Universidades, Secretaria de Estado de Education y Universidades, Ministerio de Education, Cultura y Deporte (SAB2001-0081), Rovira i Virgii Universiry, Tarragona, Spain, 2003
* JSPS research fellowship for 1 month, Kyoto Sangyo University, Japan, 2001
* Awarded the distinguished Széchenyi Professorship (Hungary) for 2000 – 2003
* EGIDE fellowship for 1 month as a visiting professor at the LIAFA - Paris-7 University, France, 2000
* DAAD (German NSF) fellowship for 2 months as a visiting scientist at the University of Hamburg, Germany, 1999
* JSPS Research Fellowship for 1 month, Kyoto Sangyo University, Japan, 1999
* JSPS Research Fellowship for 1 month, Kyoto Sangyo University, Japan, 1998
* Visitor Professor for 2 months, the University of Turku, Finland, 1998
* Invited Professor for 11 months, the University of Aizu, Japan, 1997/98
* Principal investigator of a research project entitled `Formal Languages and Automata', Research -Grant given by Hungarian Ministry of Education 1996 -98 (No. 222)
* Tempus Individual Mobility Grant for 3 months spent as a visiting lecturer at the University of Twente, the Netherlands, 1996
* Soros Foundation fellowship for 9 months spent as a visiting scientist at the Kyoto Sangyo University, Japan, 1994/95
* DAAD (German NSF) fellowship for 2 months as a visiting scientist at the University of Hamburg, Germany, 1994
* Hungarian principal investigator of a joint Japanese-Hungarian research project entitled `Languages and Automata', given by HAS and JSPS 1997 - 2000
* Principal investigator of a research project entitled `PDL Robots and VRML Languages', Hungarian NSF Grant No. T4295, 1992 - 94
* Principal investigator of a research project entitled `Formal Languages and Automata', Research Grant given by Hungarian Ministry of Education, No. 222, 1996 - 98
* Pro Renovanda Culturae Hungariae Grant No. 31/94/Tud, 1994 and No. 1158/93/Dcs, 1993
* Universitas Foundation Grant No. IV/8/1999, No. IV/8/1996, No. IV/9/1996, No. I.15/1994/VI, 1994 and Grant No. I.15/1994/VIII, 1994
* Distinction (Award) given by Ministry of Hungarian Education, 1988
* PhD Fellowship for 3 years at the Karl Marx University of Economics, Budapest, 1979 - 82

## University Courses Taught

* Compiler Construction
* Computer Programming
* Software Engineering
* Theory of Algorithms
* Formal Languages and Automata
* Algebraic Theory of Automata
* Mathematical Analysis (Calculus)
* Probability and Statistics
* Linear Algebra
* Algebra and Number Theory
* Abstract Algebra
* Set Theory
* Operations Research

## Sample invited talks

* Third International Colloquium on *`Words, Languages and Combinatorics'*, Kyoto (Japan), March 14-18, 2000
* Second International Colloquium on *`Words, Languages and Combinatorics'*, Kyoto (Japan), August 25-28, 1992
* Workshop on *`Semigroups, Formal Languages and Combinatorics on Words'*, Kyoto (Japan), August 29-31, 1992

## Memberships, Editorial Boards

* Editorial Board of *Publicationes Mathematicae*, Hungary
* Editorial Board of *Mathematica Japonica*, Japan
* Editorial Board of *Scientiae Mathematicae*, Japan

## Publications

## 1. Monographs

* Context-Free Languages and primitive Words. World Scientific, Lecture Notes Series., Singapore, 2014, 520 pp, ISBN: 978-981-4271-66-0 (with M. Ito)
* Algebraic Theory of Automata Networks. *SIAM Monographs on Discrete* *Mathematics and Applications* 11 (2004). *Society for Industrial and Applied* *Mathematics (SIAM), Philadelphia, PA,* 2004. xxii+258 pp. ISBN: 0-89871-569-5 (with C. L. Nehaniv)

## 2. Editing Conference Proceedings

* Dömösi, Pál (ed): Proc. 9*th* , 8*th* , 7*th* Int. Conf. on Automata and Formal Languages (Math. Reviews 1943539, Math. Reviews 2000c : 68088, Math. Reviews 96m : 68003)
* Dömösi, Pál, Iván, Szabolcs (eds): *13 th* Int. Conf. on Automata and Formal Languages.

## 3. Other Publications

77. P. Dömösi and G. Horváth: A novel cryptosystem based on abstract automata and Latin cubes. Studia Sci. Math. Hung., vol 52 (2), 2015, 221-232.

76. Dömösi, Pál ; Fazekas, Szilárd, Zsolt; Zita Kovács: Some Results on Bounded Context-Free Languages. Gh. Paun, G. Rozenberg, A. Salomaa (eds.): Discrete Mathematics and Computer Science, Romanian Acad. Sci., 2014: 119-136.

75. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); Maróti, György: On $\alpha\_2 - \nu\_2$ -products of automata. [Acta Inf. 48](http://www.informatik.uni-trier.de/~ley/db/journals/acta/acta48.html#DomosiM11)(7-8) (2011): 397-408.

74. Bel-Enguix, Gemma; Dömösi, Pál; Krassovitskiy, Alexander: Parsing by Simple Insertion Systems. Filipe, [Joaquim](http://www.informatik.uni-trier.de/%7Eley/db/indices/a-tree/f/Filipe:Joaquim.html) , Fred, Ana, L. N.; Sharp, [Bernadette](http://www.informatik.uni-trier.de/%7Eley/db/indices/a-tree/s/Sharp:Bernadette.html)  (eds.): ICAART 2010 , Proc. Internat. Conf. on Agents and Artificial Intelligence, Volume 2 - Agents, Valencia, Spain, January 22-24, 2010. INSTICC Press 2010, 383-387.

ICAART 2010, 383-387.

73. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970): A Novel Cryptosystem Based on Finite Automata without Outputs. Ito, Masami; Kobayashi, Yuji; Shoji, Kunitaka (eds.): AFLAS’08, Proc. Int. Conf. On Automata, Formal languages and Algebraic Systems, Kyoto, Japan, 20-22 September 2008, World Scientific, New Jersey, London, Singapore, Beijing, Shanghai, Hong Kong, Taipei, Chennai, 2010, 23-32.

72. . [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970): A Novel Stream Cipher Based on Finite Automata. Vlad, Madalin Stefan and Sgarciu, Valentin (eds.): Intellisec’09, Proc. 1st Int. Conf. On Intelligent Security Systems, November 11-14, 2009, Bucharest, Romania, 2009, Editura Printech, 16-25.

71. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Géza](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=652891); [Vuillon, Laurent](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=639367): On the Shyr-Yu theorem. [Theoret. Comput. Sci.](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Theoret_Comput_Sci) [410 (2009), no. 47-49,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=277477) 4874–4877.

[[**MATHEMATICAL REVIEWS 2583684**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=1&mx-pid=2583684)]

70. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970): Automata networks without any Letichevsky criteria. Automata, formal languages, and related topics, 39–54, Univ. Szeged. Inst. Inform., Szeged, 2009.

[[**MATHEMATICAL REVIEWS 2553623**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=2&mx-pid=2553623)]

69. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645); [Marcus, Solomon](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=249668): Marcus contextual languages consisting of primitive words. [Discrete Math.](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Discrete_Math) [308 (2008), no. 21,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=266665) 4877–4881,

[[**MATHEMATICAL REVIEWS2446097** **(2009m:68135)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=3&mx-pid=2446097)]

68. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Géza](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=652891); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645); [Shikishima-Tsuji, Kayoko](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=238183): Some periodicity of words and Marcus contextual grammars. [Vietnam J. Math.](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Vietnam_J_Math) [34 (2006), no. 4,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=249298) 381–387. [[**MATHEMATICAL REVIEWS2286745** **(2008b:68067)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=4&mx-pid=2286745) (Reviewer: Juha M. Kortelainen)]

67. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Géza](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=652891): Alternative proof of the Lyndon-Schützenberger theorem. [Theoret. Comput. Sci.](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Theoret_Comput_Sci) [366 (2006), no. 3,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=247433) 194–198.

[[**MATHEMATICAL REVIEWS2275270** **(2007g:68133)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=5&mx-pid=2275270)]

66. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Kudlek, Manfred](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=107445): New iteration lemmata for regular languages. [Fund. Inform.](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Fund_Inform) [64 (2005), no. 1-4,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=256546) 151–157.

[[**MATHEMATICAL REVIEWS2347550** **(2008i:68062)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=6&mx-pid=2347550) (Reviewer: Cireşica Jalobeanu)]

65. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Géza](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=652891): The language of primitive words is not regular: two simple proofs. [Bull. Eur. Assoc. Theor. Comput. Sci. EATCS](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Bull_Eur_Assoc_Theor_Comput_Sci_EATCS) [No. 87](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=237475) [(2005),](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=237475) 191–197

[[**MATHEMATICAL REVIEWS 2192307**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=7&mx-pid=2192307)]

64. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Géza](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=652891): On products of primitive words. Automata and formal languages, 112–121, Univ. Szeged. Inst. Inform., Szeged, 2005.

[[**MATHEMATICAL REVIEWS 2153672** **(2006a:68141)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=8&mx-pid=2153672)]

63. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Nehaniv, Chrystopher L.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=320822): Algebraic theory of automata networks. An introduction. [SIAM Monographs on Discrete Mathematics and Applications, 11.](http://www.ams.org/mathscinet/search/series.html?cn=SIAM_Monographs_on_Discrete_Mathematics_and_Applications) Society for Industrial and Applied Mathematics (SIAM), Philadelphia, PA, 2005. xii+258 pp. ISBN: 0-89871-569-5

[[**MATHEMATICAL REVIEWS 2131631** **(2005m:68004)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=9&mx-pid=2131631) (Reviewer: Alexandra Kireeva)]

62. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Martin-Vide, Carlos](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=354480): [Mateescu, Alexandryu](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=266078): On polyslender context-free languages. [Publ. Math. Debrecen](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Publ_Math_Debrecen) [66 (2005), no. 1-2,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=227147) 1–15.

[[**MATHEMATICAL REVIEWS 2128681**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=10&mx-pid=2128681)]

61. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Martín-Vide, Carlos](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=354480); [Mitrana, Victor](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=273786): Remarks on sublanguages consisting of primitive words of slender regular and context-free languages. Theory is forever, 60–67, [Lecture Notes in Comput. Sci., 3113,](http://www.ams.org/mathscinet/search/series.html?cn=Lecture_Notes_in_Comput_Sci) Springer, Berlin, 2004.

[[**MATHEMATICAL REVIEWS 2106793** **(2005h:68070)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=11&mx-pid=2106793)]

60. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Sándor](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=88470); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645); [Katsura, Masashi](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=99170): Some results on primitive words, palindromes and polyslender languages. [Publ. Math. Debrecen](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Publ_Math_Debrecen) [65 (2004), no. 1-2,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=221191) 13–28.

[[**MATHEMATICAL REVIEWS 2075252** **(2005c:68136)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=12&mx-pid=2075252) (Reviewer: Katsushi Inoue)]

59. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Géza](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=652891); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645): A small hierarchy of languages consisting of non-primitive words. [Publ. Math. Debrecen](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Publ_Math_Debrecen) [64 (2004), no. 3-4,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=219671) 261–267.

[[**MATHEMATICAL REVIEWS 2058901** **(2005a:68116)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=13&mx-pid=2058901)]

58. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Kudlek, Manfred](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=107445): An improvement of iteration lemmata for context-free languages. Words, languages & combinatorics, III (Kyoto, 2000), 185–191, World Sci. Publ., River Edge, NJ, 2003.

[[**MATHEMATICAL REVIEWS 2028874**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=14&mx-pid=2028874)]

57. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645): A parsing problem for context-sensitive languages—a correction to: "Characterization of languages by lengths of their subwords'' [in Semigroups (Kunming, 1995), 117--129, Springer, Singapore, 1998; [MATHEMATICAL REVIEWS1747927](http://www.ams.org/mathscinet/search/publdoc.html?pg1=MR&s1=1747927&loc=fromrevtext)]. Words, languages & combinatorics, III (Kyoto, 2000), 183–184, World Sci. Publ., River Edge, NJ, 2003.

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[[**MATHEMATICAL REVIEWS 1943545** **(2003k:68057)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=19&mx-pid=1943545)]

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[[**MATHEMATICAL REVIEWS 1943544** **(2003k:68077)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=20&mx-pid=1943544)]

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[[**MATHEMATICAL REVIEWS 1874826**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=27&mx-pid=1874826)]

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[[**MATHEMATICAL REVIEWS 1682012** **(2000d:68100)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=35&mx-pid=1682012) (Reviewer: Alexandra Kireeva)]

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[[**MATHEMATICAL REVIEWS 1664219** **(99m:68130)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=37&mx-pid=1664219) (Reviewer: Alexandra Kireeva)]

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33. [Dömösi, P.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970): On $\alpha\_2$ -$\nu\_3$ -products of automata. Automata and formal languages, VII (Salgótarján, 1993). [Publ. Math. Debrecen](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Publ_Math_Debrecen) [48 (1996), no. 3-4, suppl.,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=148105) 233–242.

[[**MATHEMATICAL REVIEWS 1387838** **(97d:68135)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=39&mx-pid=1387838) (Reviewer: K. G. Peeva)]

32. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645): On subwords of languages. Semigroups, formal languages and combinatorics on words (Japanese) (Kyoto, 1994). [Sūrikaisekikenkyūsho Kōkyūroku](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Surikaisekikenkyusho_Kokyuroku) [No. 910](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=142402) [(1995),](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=142402) 1–4.

[[**MATHEMATICAL REVIEWS1384089** **(97a:68096)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=40&mx-pid=1384089)]

31. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Sándor](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=88470); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645); [Kászonyi, László](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=99015); [Katsura, Masashi](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=99170): Some combinatorial properties of words, and the Chomsky-hierarchy. Words, languages and combinatorics, II (Kyoto, 1992), 105–123, World Sci. Publ., River Edge, NJ, 1994.

[[**MATHEMATICAL REVIEWS 1351283** **(97c:68130)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=41&mx-pid=1351283) (Reviewer: Yuji Kobayashi)]

30. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970): Complete classes of finite automata and simulation. Words, languages and combinatorics, II (Kyoto, 1992), 98–104, World Sci. Publ., River Edge, NJ, 1994.

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28. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Horváth, Sándor](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=88470); [Ito, Masami](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=215645): Formal languages and primitive words. [Publ. Math. Debrecen](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Publ_Math_Debrecen) [42 (1993), no. 3-4,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=125949) 315–321.

[[**MATHEMATICAL REVIEWS 1229678** **(94m:68099)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=44&mx-pid=1229678) (Reviewer: Friedrich Otto)]

27. [Dömösi, P.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Kovács, B.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=105675): Simulation on finite networks of automata. Words, languages and combinatorics (Kyoto, 1990), 131–138, World Sci. Publ., River Edge, NJ, 1992.

[[**MATHEMATICAL REVIEWS 1161017** **(93e:68076)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=45&mx-pid=1161017) (Reviewer: A. D. Korshunov)]

26. [Dömösi, P.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Gécseg, F.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=72160): Simulation and representation by $\nu^\*\_i$ -products of automata. [Publ. Math. Debrecen](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Publ_Math_Debrecen) [40 (1992), no. 1-2,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=115416) 75–83.

[[**MATHEMATICAL REVIEWS 1154492** **(93d:68049)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=46&mx-pid=1154492)]

25. [Dömösi, P.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Kovács, B.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=105675): Computation and simulation on finite networks of automata. Automata, languages and programming systems (Salgótarján, 1990). [Pure Math. Appl. Ser. A](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Pure_Math_Appl_Ser_A) [1 (1991), no. 3-4,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=110480) 317–324.

[[**MATHEMATICAL REVIEWS 1125387**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=47&mx-pid=1125387)]

24. [Dömösi, P.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Ésik, Z.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=64180): Product hierarchies of automata and homomorphic simulation. [Acta Cybernet.](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Acta_Cybernet) [9 (1990), no. 4,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=106602) 371–373.

[[**MATHEMATICAL REVIEWS 1094890** **(91k:68143)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=48&mx-pid=1094890)]

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[[**MATHEMATICAL REVIEWS 1089215** **(92i:68110)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=50&mx-pid=1089215) (Reviewer: A. Ádám)]

21. [Dömösi, P.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Gécseg, F.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=72160): Simulation by $\nu^\*\_1$ -products of automata. [Publ. Math. Debrecen](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Publ_Math_Debrecen) [36 (1989), no. 1-4,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=82032) 51–56 (1990).

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[[**MATHEMATICAL REVIEWS 1053447** **(91f:68154)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=55&mx-pid=1053447) (Reviewer: V. Topencharov)]

16. [Dömösi, Pál](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Ésik, Zoltán](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=64180): Critical classes for the $\alpha\_0$ -product. [Theoret. Comput. Sci.](http://www.ams.org/mathscinet/search/journaldoc.html?cn=Theoret_Comput_Sci) [61 (1988), no. 1,](http://www.ams.org/mathscinet/search/publications.html?pg1=ISSI&s1=47738) 17–24.

[[**MATHEMATICAL REVIEWS 0974767** **(90d:68056)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=56&mx-pid=974767) (Reviewer: János Virágh)]

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[[**MATHEMATICAL REVIEWS 0942738** **(89k:68103)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=58&mx-pid=942738) (Reviewer: I. Peák)]

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[[**MATHEMATICAL REVIEWS 0945732** **(89e:68090)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=59&mx-pid=945732) (Reviewer: Ranjan Chaudhuri)]

12. [Dömösi, P.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=58970); [Ésik, Z.](http://www.ams.org/mathscinet/search/publications.html?pg1=IID&s1=64180): On homomorphic realization of automata with $\alpha\_0$ -products. Papers on automata and languages, VIII, 63–97, [DM, 86-3,](http://www.ams.org/mathscinet/search/series.html?cn=DM) Karl Marx Univ. Econom., Budapest, 1986.

[[**MATHEMATICAL REVIEWS 0938104** **(89g:68049)**](http://www.ams.org/mathscinet/search/publdoc.html?arg3=&co4=AND&co5=AND&co6=AND&co7=AND&dr=all&extend=1&pg4=AUCN&pg5=TI&pg6=PC&pg7=ALLF&pg8=ET&review_format=html&s4=domosi&s5=&s6=&s7=&s8=All&vfpref=html&yearRangeFirst=&yearRangeSecond=&yrop=eq&r=60&mx-pid=938104) (Reviewer: Eckehart Hotzel)]

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