

## Mathematical Books:

1. **Grammars for Economic Processes**, The Technical Publ. House, Bucharest, 1980 (in Romanian)
2. **Matrix Grammars**, The Scientific and Enciclopaedic Publ. House, Bucharest, 1981 (in Romanian)
3. **Contextual Grammars**, The Publ. House of the Romanian Academy, Bucharest, 1982 (in Romanian)
4. **Recent Results and Problems in Formal Language Theory**, The Scientific and Enciclopaedic Publ. House, Bucharest, 1984 (in Romanian)
5. **The Paradoxes of Hierarchies**, The Scientific and Enciclopaedic Publ. House, Bucharest, 1987 (in Romanian)
6. (in collaboration with J. Dassow, Germany) **Regulated Rewriting in Formal Language Theory**, Akademie-Verlag, Berlin, 1989, Springer-Verlag, Berlin, 1989 (nr. 18 in series Monograph on Theoretical Computer Science)
7. (in collaboration with E. Csuhaj-Varju, Hungary; J. Dassow, Germany; J. Kelemen, Czechoslovakia) **Grammar Systems. A Grammatical Approach to Distribution and Cooperation**, Gordon and Breach, series Topics in Computer Mathematics, London, 1994
8. **Marcus Contextual Grammars**, Kluwer Academic Publ., Dordrecht, Boston, London, 1997
9. (in collaboration with G. Rozenberg, A. Salomaa) **DNA Computing. New Computing Paradigms**, Springer-Verlag, Heidelberg, 1998; the book was translated in Japanese, in 1999, in Chinese and Russian in 2004
10. (in collaboration with C. Calude) **Computing with Cells and Atoms**, Taylor and Francis, London, 2000
11. **Membrane Computing. An Introduction**, Springer-Verlag, Berlin, 2002; translated in Chinese in 2012.

## Edited Books:

1. **Mathematical Aspects of Natural and Formal Languages**, World Scientific Publishing, Singapore, 1994
2. **Mathematical Linguistics and Related Topics**, Editura Academiei Romane, Bucuresti, 1995
3. **Artificial Life: Grammatical Models**, The Black Sea University Press, Bucuresti, 1995
4. (with A. Salomaa) **New Trends in Formal Languages: Control, Cooperation, Combinatorics**, Lecture Notes in Computer Science 1218, Springer-Verlag, Berlin, 1997
5. **Computing with Bio-Molecules. Theory and Experiments**, Springer-Verlag, Singapore, 1998
6. (with A. Salomaa) **Grammatical Models of Multi-Agent Systems**, Gordon and Breach, London, 1999
7. (with J. Karhumaki, H. A. Maurer, G. Rozenberg) **Jewels are Forever**, Springer-Verlag, Berlin, 1999
8. (with G. Ciobanu) **Proceedings of Fundamentals of Computing Theory '99 Conference**, Iasi, 1999, Lecture Notes in Computer Science 1684, Springer-Verlag, Berlin, 1999
9. (with C. Calude) **Finite versus Infinite. Contributions to an Eternal Dilemma**, Springer-Verlag, London, 2000

10. (with C. Calude, M.J. Dinneen) **Pre-proceedings of Workshop on Multiset Processing**, Curtea de Arges, Romania, August 2000, TR 140, CDMTCS, Univ. Auckland, New Zealand, 2000
11. (with C. Martin-Vide) **Recent Topics in Mathematical and Computational Linguistics**, Editura Academiei Romane, Bucuresti, 2000
12. (with G. Rozenberg, A. Salomaa) **Current Trends in Theoretical Computer Science. Entering the 21st Century**, World Scientific, Singapore, 2001
13. (with C. Martin-Vide) **Pre-proceedings of Workshop on Membrane Computing**, Curtea de Arges, Romania, August 2001, TR 16/01, Univ. Rovira i Virgili, Tarragona, Spain, 2001
14. (with C.S. Calude, G. Rozenberg, A. Salomaa) **Multiset Processing. Mathematical, Computer Science, Molecular Computing Points of View**, Lecture Notes in Computer Science 2235, Springer-Verlag, Berlin, 2001
15. (with M. Ito, S. Yu) **Words, Semigroups, Transductions (Festschrift in Honour of Gabriel Thierrin)**, World Scientific, Singapore, 2001
16. (with D. Dascalu, E. Pincovschi, Vl. Topa, V. Voicu) **Micro and Nanostructures**, Editura Academiei Romane, Bucuresti, 2001
17. (with C. Zandron) **Pre-proceedings of Workshop on Membrane Computing**, Curtea de Arges, Romania, August 2002, MolCoNet Publication No 1, 2002
18. (with G. Rozenberg, A. Salomaa, C. Zandron) **Membrane Computing. International Workshop, WMC 2002**, Curtea de Arges, Romania, August 2002. Revised Papers, Lecture Notes in Computer Science 2597, Springer-Verlag, Berlin, 2003
19. (with M. Cavaliere, C. Martin-Vide) **Proceedings of the Brainstorming Week on Membrane Computing**; Tarragona, February 2003, Technical Report 26/03, Rovira i Virgili University, Tarragona, 2003
20. (with C. Martin-Vide, V. Mitranu) **Formal Language Theory and Applications**, Springer-Verlag, Berlin, 2004
21. (with A. Alhazov, C. Martin-Vide) **Pre-proceedings of Workshop on Membrane Computing, WMC 2003**, Tarragona, Spain, July 2003, Technical Report 28/03, Rovira i Virgili University, Tarragona, 2003
22. (with N. Jonoska, G. Rozenberg) **Aspects of Molecular Computing. Essays Dedicated to Tom Head on the Occasion of His 70th Birthday**, Lecture Notes in Computer Science 2950, Springer-Verlag, Berlin, 2004
23. (with G. Rozenberg, A. Salomaa) **Current Trends in Theoretical Computer Science. The Challenge of the New Century**, Vol.I: Algorithms and Complexity, Vol. II: Formal Models and Semantics, World Scientific, Singapore, 2004
24. (with C. Martin-Vide, G. Mauri, G. Rozenberg, A. Salomaa) **Membrane Computing, International Workshop, WMC 2003**, Tarragona, July 2003, Selected Papers, Lecture Notes in Computer Science 2933, Springer-Verlag, Berlin, 2004
25. (with A. Riscos-Nunez, A. Romero-Jimenez, F. Sancho-Caparrini) **Proceedings of the Second Brainstorming Week on Membrane Computing**, Sevilla, February 2004, Technical Report 01/04 of Research Group on Natural Computing, Sevilla University, Spain, 2004
26. (with J. Karhumaki, H. Maurer, G. Rozenberg) **Theory is Forever. Essays Dedicated to Arto Salomaa, on the Occasion of His 70th Birthday**, Lecture Notes in Computer Science 3113, Springer-Verlag, Berlin, 2004

27. (with G. Mauri, C. Zandron) **Pre-proceedings of Fifth Workshop on Membrane Computing, WMC5**, Milano, 2004
28. (with G. Mauri, M.J. Perez-Jimenez, G. Rozenberg, A. Salomaa) **Membrane Computing, International Workshop, WMC5**, Milano, Italy, 2004, Selected Papers, Lecture Notes in Computer Science 3365, Springer-Verlag, Berlin, 2005
29. (with G. Ciobanu, M.J. Perez-Jimenez) **Applications of Membrane Computing**, Springer-Verlag, Berlin, 2006
30. (with M.A. Gutierrez-Naranjo, M.J. Perez-Jimenez) **Cellular Computing. Complexity Aspects**, Fenix Editora, Sevilla, 2005
31. (with R. Freund, G. Lojka, M. Oswald) **Proceedings of Sixth International Workshop on Membrane Computing, WMC6**, Vienna, July 18--21, 2005
32. (with G. Ciobanu) **Pre-proceedings of Workshop on Theory and Applications of P Systems, TAPS'05**, Timisoara, September 26-27, 2005
33. (with C.S. Calude, M.J. Dinneen, M.J. Perez-Jimenez, G. Rozenberg) **Proceedings of Unconventional Computation. 4th International Conference, UC2005**, Sevilla, Spain, October 2005. Lecture Notes in Computer Science 3699, Springer-Verlag, Berlin, 2005
34. (with R. Freund, G. Rozenberg, A. Salomaa) **Membrane Computing, International Workshop, WMC6**, Vienna, Austria, 2005, Selected and Invited Papers, Lecture Notes in Computer Science 3850, Springer-Verlag, Berlin, 2006
35. (with M.A. Gutierrez-Naranjo et al) **Proceedings of the Fourth Brainstorming Week on Membrane Computing, Sevilla, 2006**, 2 volumes, Fenix Editora, Sevilla, 2006
36. (with C.S. Calude, M.J. Dinneen, G. Rozenberg, S. Stepney) **Proceedings of Unconventional Computation. 5th International Conference, UC2006**, York, UK, September 2006. Lecture Notes in Computer Science 4035, Springer-Verlag, Berlin, 2006
37. (with H.J. Hoogeboom, G. Rozenberg) **Pre-proceedings of Workshop on Membrane Computing, WMC7**, Leiden, July 17-21, 2006
38. (with L. Pan) **Pre-proceedings of the International Conference on Bio-Inspired Computing - Theory and Applications, BIC-TA 2006** Volume of Membrane Computing Section, Wuhan, China, September 18--22, 2006
39. (with H.J. Hoogeboom, G. Rozenberg, A. Salomaa) **Membrane Computing, International Workshop, WMC7**, Leiden, The Netherlands, 2006, Selected and Invited Papers, Lecture Notes in Computer Science 4361, Springer-Verlag, Berlin, 2007
40. (with M.A. Gutierrez-Naranjo et al.) **Proceedings of the Fifth Brainstorming Week on Membrane Computing**, Sevilla, 2007, Fenix Editora, Sevilla, 2007
41. (with G. Eleftherakis, P. Kefalas) **Proceedings of Eight Workshop on Membrane Computing**, Thessaloniki, June 2007
42. (with G. Eleftherakis, P. Kefalas, G. Rozenberg, A. Salomaa) **Membrane Computing, International Workshop, WMC8**, Thessaloniki, Greece, 2007, Selected and Invited Papers, LNCS 4860, Springer-Verlag, Berlin, 2007
43. (with M.A. Gutierrez-Naranjo et al.) **Proceedings of the Sixth Brainstorming Week on Membrane Computing**, Sevilla, 2008, Fenix Editora, Sevilla, 2008
44. (with D. Corne, P. Frisco, G. Rozenberg, A. Salomaa) **Membrane Computing, International Workshop, WMC9**, Edinburgh, UK, Selected and Invited Papers, LNCS 5391, Springer-Verlag, Berlin, 2008.

45. (with R. Gutierrez-Escudero et al.) **Proceedings of the Seventh Brainstorming Week on Membrane Computing**, Sevilla, 2009, 2 volumes, Fenix Editora, Sevilla, 2009.
46. (with M.J. Perez-Jimenez, A. Riscos-Nunez) **Pre-proceedings of Tenth Workshop on Membrane Computing, WMC10**, Curtea de Arges, August 2009 (xii + 566 pag.).
47. Gh. Paun, M.J. Perez-Jimenez, A. Riscos-Nunez, G. Rozenberg, A. Salomaa, eds.: **Membrane Computing. Tenth International Workshop on Membrane Computing, WMC 2009**, Curtea de Arges, Romania, August 2009, Invited and Selected Revised Papers, Lecture Notes in Computer Science, 5957, Springer, Berlin, 2010.
48. Gh. Paun, G. Rozenberg, A. Salomaa, eds.: **Handbook of Membrane Computing**, Oxford Univ. Press, 2010 (672 + xviii pages)
49. (with M.A. Martinez del Amor, I. Perez Hurtado de Mendoza, A. Riscos Nunez) **Proceedings of the Eighth Brainstorming Week on Membrane Computing**, Sevilla, 2010, Fenix Editora, Sevilla, 2010.
50. (with M. Gheorghe, T. Hinze) **Pre-proceedings of Eleventh International Conference on Membrane Computing, CMC11**, Jena, Germany, August 2010.
51. (with M. Gheorghe, T. Hinze, G. Rozenberg, A. Salomaa) **Membrane Computing. 11th International Conference, CMC11, Jena, Germany, August 24-27, 2010. Revised, Selected, and Invited Papers**, LNCS 6501, Springer-Verlag, Berlin, 2010.
52. (with M.A. Martinez-del-Amor, I. Perez-Hurtado, F.J. Romero-Campero, L. Valencia-Cabrera) **Proceedings of the Ninth Brainstorming Week on Membrane Computing**, Sevilla, 2011, Fenix Editora, Sevilla, 2011.
53. (with M. Gheorghe, S. Verlan) **Pre-proceedings of Twelfth International Conference on Membrane Computing, CMC12**, Fontainebleau, Paris, August 2011.
54. (with M. Gheorghe, G. Rozenberg, A. Salomaa, S. Verlan) **Membrane Computing. 12th International Conference, CMC12, Fontainebleau, France, August 2011. Revised, Selected, Invited Papers**, LNCS 7184, Springer-Verlag, Berlin, 2012.
55. (with M.A. Martinez-del-Amor et al.) **Proceedings of the Tenth Brainstorming Week on Membrane Computing**, Sevilla, 2012, 2 volumes, Fenix Editora, Sevilla, 2012.

**Editor or coeditor of several special issues of journals:**

- *International Journal of Computer Mathematics*
- *Annals of Bucharest University*
- *Romanian Journal of Information Science and Technology*
- *Theoretical Computer Science*
- *Soft Computing*
- *Fundamenta Informaticae*
- *Natural Computing*
- *Journal of Universal Computer Science*
- *New Generation Computing*
- *International Journal of Foundations of Computer Science*

- *Journal of Automata, Languages and Combinatorics*
- *Progress in Natural Sciences*
- *International Journal of Unconventional Computing*
- *International Journal of Computers, Communication and Control*
- *Journal of Logic and Algebraic Programming*
- *International Journal of Natural Computing Research*

## Popularization Books:

(all in Romanian)

1. (with C. Calude) **The Mathematical Model -- Tool and Viewpoint**, The Scientific and Enciclopaedic Publ. House, Bucharest, 1982
2. **From the Show of Mathematics**, Albatros Publ. House, Bucharest, 1983
3. **Between Mathematics and Games**, Albatros Publ. House, Bucharest, 1986
4. **Mathematics? A Show!**, The Scientific and Enciclopaedic Publ. House, Bucharest, 1988
5. **Games and Mathematics**, vol. I and II, The Technical Publ. House, Bucharest, 2000

## Fiction books:

1. **Sfera paralela (The Parallel Sphere)**, Albatros Publ. House, Bucharest, 1984 (short stories)
2. **Generoasele cercuri (The Generous Circles)**, Albatros Publ. House, Bucharest, 1989 (short stories)
3. **O mie noua sute noua zeci si patru (Nineteen Ninety-Four)**, Ecce Homo Publ. House, Bucharest, 1993 (novel); translated in English (Minerva Press, London, 1997) and Hungarian (Pont Kiado, Budapest, 2008)
4. **Oglinzi miscatoare (Moving Mirrors)**, Scripta Publ. House, Bucharest, 1994 (novel)
5. **Hotel Anghila (Anghilla Hotel)**, Scripta Publ. House, Bucharest, 1994 (novel)
6. **Nemiloasele cercuri (The Pitiless Circles)**, Mesterul Manole Publ. House, Curtea de Arges, 2004 (selection of short stories)
7. **Lotta**, Paralela 45, Pitesti, 2005 (novel); translated in Italian in 2013
8. **Ultima sauna (The last sauna)**, Dacpress, Curtea de Arges, 2006 (novel)
9. **Inscriptii pe un bilet de tren. Jurnal de peregrin (Notes on a train ticket. A pilgrim diary)**, Orient-Occident Foundation Publ. House., Bucharest, 2007
10. **Teama de toamna (The autumn fear)**, Tiparg, Pitesti, 2009 (poems)
11. **De-a viata (Life Game)**, Tiparg, Pitesti, 2009 (poems)
12. **Haina arlechinului/L'habit de l'arlequin**, Tiparg, Pitesti, 2009 (bilingual volume, Romanian-French, selection from the previous two volumes and translation in French by Paula Romanescu)
13. **Guadalquiviria**, Vergiliu Publ. House, Bucharest, 2009 (poems, bilingual volume, Romanian-Spanish, translation in Spanish by Maria Calleya)
14. **Lumea vazuta de un matematician (The world as seen by a mathematician)**, Ed. Arefeana, Bucuresti, 2009
15. **Privind peste umar. Memorii premature (Looking over the shoulder. Premature memories)**, Tiparg, Pitesti, 2010
16. **Cactus de veghe (Watching cactus)**, Tiparg, Pitesti, 2011 (epigrams)

17. **Carti si autori (Books and authors)**, Tiparg, Pitesti, 2012 (books presentations).

## **Books about logical games:**

(all in Romanian)

1. **Introduction to GO**, Recoop, Bucharest, 1985 (second edition -- 1986, third edition -- 1988, fourth edition -- 2000)
2. **Solutions for 50 Solitaires**, Recoop, Bucharest, 1987 (second edition -- 1989)
3. **250 GO Problems**, Recoop, Bucharest, 1987 (second edition -- 1989)
4. **The Book of Games** (editor and co-author), Recoop, Bucharest, 1988
5. **Two Person Games**, Sport-Turism Publ. House, Bucharest, 1989
6. (in collaboration with I. Diamandi) **40 Games in BASIC**, Recoop, Bucharest, 1993
7. **The Match Theory. 234.5 Logical-Amusing Problems**, The Technical Publ. House, Bucharest, 1999
8. **256 Funny Logical Problems**, The Technical Publ. House, Bucharest, 2000
9. **Card Games**, The Technical Publ. House, Bucharest, 2000
10. **Among the Younger Brothers of GO: Five-in-a-Row, Go-Moku, Renju, Pente**, Limes Publ. House, Cluj-Napoca, 2010

## **Papers:**

**1974**

- Citeva gramatici dependente de context, Stud. Cerc. Matem., 26, 8 (1974), 1105--1110.
- Asupra gramaticilor contextuale, Stud. Cerc. Matem., 26, 8 (1974), 1111--1129.

**1975**

- (with P. Constantinescu) The cybernetic structure of MIS described by automata theory, Proc. 3rd Intern. Congress Cybern. Systems, Bucharest, 1975.
- (with C. Cislaru), Classes of languages with Bar-Hillel, Perles and Shamir's property, Bull. Math. Soc. Sci. Math. Roumanie, 18 (66) (1975), 273--278.
- Asupra unor masuri ale complexitatii sintactice, Stud. Cerc. Matem., 27, 3 (1975), 313--321.
- Complexitatea limbajelor contextuale selective, Stud. Cerc. Matem., 27, 5 (1975), 559--569.

**1976**

- Asupra proprietatii lui Bar-Hillel, Perles si Shamir, Stud. Cerc. Matem., 28, 3 (1976), 303--309.
- A formal linguistic approach to the production process, Found. Control Engineering, 1, 3 (1976), 169--178.
- A generative model of conversation, Semiotica, 17, 1 (1976), 21--33.
- Languages associated to a dramatic work, Cah. ling. th. appl., 13, 2 (1976), 605--611.

- O problema de planificare a itinerarelor unui punct mobil intr-un graf si rezolvarea ei cu ajutorul teoriei limbajelor formale, Stud. Cerc. Matem., 28, 5 (1976), 565--570.
- (with P. Constantinescu) Sistemul informatic ca sistem cibernetic cu doua bucle de reglaj, Stud. Cerc. Calcul. Ec. Cibernet. Ec., 3 (1976), 79--91.
- (with P. Constantinescu) Structuring information system by means of automata theory, CEPECA Management Training Review, 2 (1976), 40--48.
- On the smallest number of nonterminals required to generate a context-free language, Mathematica, 18 (41), 2 (1976), 203--208.

### 1977

- (with Al. Tasnadi) Asupra unor metode de decizie multicriteriala, Revista de Statistica, 10 (1977), 10 - 13.
- The generative capacity of compound grammars, Inform. Control, 34, 1 (1977), 50--54.
- On the index of grammars and languages, Inform. Control, 35, 4 (1977), 259--266.
- An operation with languages occurring in the linguistic approach to management, RAIRO/Th. Computer Sci., 11, 4 (1977), 303--310.
- Noi operatii cu limbaje, Stud. Cerc. Matem., 29, 5 (1977), 521-533.
- Generative grammars for some economic activities (Scheduling and marshalling problems), Found. Control Engineering, 2, 1 (1977), 15--25.
- Contextual grammars with restrictions in derivation, Rev. Roum. Math. Pures Appl., 22, 8 (1977), 1147--1154.
- (with A. Pascu) A homomorphic representation of simple matrix languages, Inform. Control, 35, 4 (1977), 267--275.

### 1978

- (with Al. Tasnadi) Optimizarea unui indicator de performanta pe baza factorului structural, Revista de Statistica, 27, 8 (1978), 46--51.
- Operatii cu limbaje si gramatici contextuale, Stud. Cerc. Matem., 30, 4 (1978), 425--439.
- On the iteration of gsm mappings, Rev. Roum. Math. Pures Appl., 23, 4 (1978), 921--937.
- On some classes of contextual grammars, Bull. Math. Soc. Sci. Math. Roumanie, 22 (70), 2 (1978), 183--189.
- An infinite hierarchy of contextual languages with choice, Bull. Math. Soc. Sci. Math. Roumanie, 22 (70), 4 (1978), 425--430.
- Two infinite hierarchies of languages defined by branching grammars, Kybernetika, 14, 6 (1978), 397--407.
- Linear simple matrix languages, Elektr. Inform. Kybern., 14, 7/8 (1978), 377--384.

### 1979

- Asupra unor variante ale problemei voiajorului. Abordare lingvistico-matematica, Stud. Cerc. Matem., 31, 1 (1979), 213--226.
- Grammatical inference and creative learning, Rev. Roum. Ling., 24, 2 (1979), 195--200.

- Normal forms for bicolored digraph-grammar systems, *Intern. J. Computer Math.*, 7 (1979), 109--118.
- On the generative capacity of some classes of grammars with regulated rewriting, *Math. Found. Computer Sci. Symp.*, Olomouc, *Lect. Notes Computer Sci.*, 74, Springer-Verlag, 1979, 408--414.
- A formal linguistic model of action systems, *Ars Semeiotica*, 2, 1 (1979), 33--47.
- Marcus contextual grammars and languages, A survey, *Rev. Roum. Math. Pures Appl.*, 24, 10 (1979), 1467--1486.
- On the generative capacity of tree controlled grammars, *Computing*, 21 (1979), 213--220.
- Some further remarks on the family of finite index matrix languages, *RAIRO/Th. Informatics*, 13, 3 (1979), 289--297.
- On the generative capacity of conditional grammars, *Inform. Control*, 43, 2 (1979), 178--186.
- On the family of matrix languages of finite index, *J. Computer System Sci.*, 18, 3 (1979), 267--280.
- On a prolongation of languages, *Bull. Math. Soc. Sci. Math. Roumanie*, 23 (71), 3 (1979), 293--296.
- A note on the intersection of context-free languages, *Fundamenta Inform.*, 3, 2 (1979), 135--139.
- On Szilard's languages associated to a matrix grammar, *Inform. Processing Letters*, 8, 2 (1979), 104--105.
- (with C. Calude, S. Marcus) The universal grammar as a hypothetical brain, *Rev. Roum. Ling.*, 24, 5 (1979), 479--489.
- (with A. Pascu) On the planarity of bicolored digraph-grammar systems, *Discrete Math.*, 25 (1979), 195--197.

## 1980

- The complement of a finite index matrix language is context sensitive, *Inform. Control*, 47, 3 (1980), 166--174.
- Possibilities and limits in reducing social indicators complexity, Report HSDRGPID 47, Univ. United Nations, Tokyo, 1980, 4--32.
- Some consequences of a result of Ehrenfeucht and Rozenberg, *RAIRO/ Th. Computer Sci.*, 14, 1 (1980), 119--122.
- A new type of generative device: valence grammars, *Rev. Roum. Math. Pures Appl.*, 25, 6 (1980), 911--924.
- (with A. Andrasiu, C. Calude) Extinderi ale problemei deciziilor multicriteriale, *Revista de Statistica*, 29, 11 (1980), 43--49.
- O ierarhie infinita de limbaje matriciale, *Stud. Cerc. Matem.*, 32, 6 (1980), 697--707.
- (with X. M. Nguyen) On the inner-contextual grammars, *Rev. Roum. Math. Pures Appl.*, 25, 4 (1980), 641--651.

## 1981

- An impossibility theorem for social indicators aggregation, *Bull. pour Sous Ensembles Floues et leur Appl.*, 6 (1981), 54--65, *Fuzzy Sets and Systems*, 9 (1983), 205--210.



- Despre locul limbajelor de programare in ierarhia lui Chomsky, Stud. Cerc. Matem., 33, 4 (1981), 455--466.
- On eliminating lambda-rules from simple matrix grammars, Fundamenta Inform., 4, 1 (1981), 185--195.
- Limbajele calculului propozitiilor in ierarhia lui Chomsky, Stud. Cerc. Matem., 33, 3 (1981), 299--310.
- Multi-head sequential transducers, Rev. Roum. Math. Pures Appl., 26, 9 (1981), 1235--1253.
- Thue languages and matrix grammars, Found. Control Engineering, 6, 4 (1981), 273--278.
- (with C. Calude) The absence of contextual ambiguities in programming languages, Rev. Roum. Ling., 18, 1 (1981), 91--110, si in vol. Contextual ambiguities in natural & artificial languages, ed. S. Marcus, Ghent Univ., 1983, 57--76.
- Noi criterii de decizie multicriteriale, Revista de Statistica, 30, 7 (1981), 52 - 57.
- (with C. Calude) Global syntax and semantics for recursively enumerable languages, Fundamenta Inform., 4, 2 (1981), 245--254.
- (with Al. Carausu) String intersection and short concatenation, Rev. Roum. Math. Pures Appl., 26, 5 (1981), 713--726.

## 1982

- On simple matrix languages versus scattered context languages, RAIRO/ Th. Informatics, 16, 3 (1982), 245--253.
- Gramatici bidimensionale. Un model pentru generarea unor motive decorative populare, in vol. Semiotica matematica a artelor vizuale, ed. S. Marcus, Ed. Stiintifica si Enciclopedica, Bucharest, 1982, 203--220.
- (with A. Andrasiu, C. Calude) Posibilitati de agregare a deciziilor multicriteriale, Stud. Cerc. Matem., 34, 2 (1982), 87--103.
- Restrictii in problema indicatorilor sociali, in vol. Metode matematice in problematica dezvoltarii, ed. S. Marcus, Ed. Academiei, Bucharest, 1982, 133--162.
- (with C. Calude) On the adequacy of a grammatical model of the brain, Cah. ling. th. appl., 4 (1982), 343--351.
- (with J. Dassow)  $L(ETOL) = L(ETOL_{[5]})$ , Electr. Inform. Kybern., 18, 6 (1982), 345--348.
- (with X. M. Nguyen) On the generative capacity of contextual schemata with syntactical invariant choice, Elektr. Inform. Kybern., 18, 1/2 (1982), 57--65.
- (with X. M. Nguyen) On the generative capacity of n-contextual grammars, Bull. Math. Soc. Sci. Math. Roumanie, 25 (74), 4 (1982), 245--254.

## 1983

- Modelling economic processes by means of formal grammars. A survey of results at the middle of 1981, Acta Appl. Math., 1, 3 (1983), 79--95.
- A positive answer to problem P11, Bulletin EATCS, 19 (1983), 9--10.
- Length-increasing grammars of finite index, Rev. Roum. Math. Pures Appl., 28, 5 (1983), 391--403.

- The existence of Onicescu's associations depending on the group size, in vol. Studies in probability and related topics, ed. M. C. Demetrescu, M. Iosifescu, Nagard Publ., 1983, 376--379.
- Some context-free-like properties of matrix languages of finite index, Bull. Math. Soc. Sci. Math. Roumanie, 27 (75), 1 (1983), 83--87.
- On the family of Szilard languages, Bull. Math. Soc. Sci. Math. Roumanie, 27 (75), 3 (1983), 259--265.
- (with C. Calude) Independent instances of some undecidable problems, RAIRO/Th. Informatics, 17, 1 (1983), 49--54.

#### 1984

- On semicontextual grammars, Bull. Math. Soc. Sci. Math. Roumanie, 28 (76), 1 (1984), 63--68.
- O demonstratie elementara pentru o teorema a lui Rozenkrantz, Stud. Cerc. Matem., 36,2 (1984), 143--146.
- Six nonterminals are enough for generating each r.e. language by a matrix grammar, Intern. J. Computer Math., 15 (1984), 23--37.
- Two methods for multicriterial hierarchization of discrete alternatives, RAIRO/Operations Research, 18, 3 (1984), 263--278.
- On grammars with double restrictions in derivation, Proc. 3rd IMYCS, Smolenice, 1984, 126--131.
- (with J. Dassow) Codings of pure languages obtained by regulated rewriting, Found. Control Engineering, 9, 1 (1984), 3--14.
- (with J. Dassow) On the description of languages by grammars with regulated rewriting, Proc. 3rd IMYCS, Smolenice, 1984, 15--22.

#### 1985

- (with M. Tataram) Classes of mappings having context sensitive graphs, Rev. Roum. Math. Pures Appl., 30, 4 (1985), 273--288.
- On some open problems about Marcus contextual languages, Intern. J. Computer Math., 17, 1 (1985), 9--23.
- Two theorems about Galiukschov semicontextual grammars, Kybernetika, 21, 5 (1985), 360--365.
- Semiconditional contextual grammars, Fundamenta Inform., 8, 2 (1985), 151--161.
- A variant of random context grammars: semi-conditional grammars, Theoret. Computer Sci., 41 (1985), 1--17.
- On leftmost derivation restriction in regulated rewriting, Rev. Roum. Math. Pures Appl., 30, 9 (1985), 751--758.
- On Parikh-boundedness of matrix languages, Bulletin EATCS, 25 (1985), 34--37.
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