List of Publications by Ferenc Gécseg

Books, Book Chapter, Editing

1. *Algebraic Theory of Automata,* Akadémiai Kiadó, Budapest, 1972 (with I. Peák).

2. *Tree Automata,* Akadémiai Kiadó, Budapest, 1984 (with M. Steinby).

3. *Products of Automata,* Springer-Verlag, Berlin–Heidelberg–New York–Tokyo, 1986.

4. *Fundamentals of Computation Theory,* Proceedings of the 1981 International FCT Conference, Szeged, Hungary, Springer Lecture Notes in Computer Science, Volume 117 (Editor).

5. *Fundamentals of Computation Theory,* Proceedings of the 1989 International FCT Conference, Szeged, Hungary, Springer Lecture Notes in Computer Science, Volume 380 (Editor with J. Csirik and J. Demetrovics).

6. *Automata, Languages and Programming,* 22nd International Colloquium, ICALP95, Szeged, Hungary, July 1995, Proceedings, Springer Lecture Notes in Computer Science (Editor with Z. Fülöp).

7. Tree languages, in: *Handbook of Formal Languages*, vol. 3, Springer-Verlag, Berlin–Heidelberg–New York–Tokyo, 1996, 1-69 (with M. Steinby).

Papers

1. Schreier extensions of multi-operator Ω-groups (in Russian), *Acta Sci. Math.,* **23** (1962), 58-63.

2. On some classes of semimoduls and moduls (in Russian), *Acta Sci. Math.,* **24** (1963), 165-172.

3. On products of ordered automata I (in Russian), *Acta Sci. Math.,* **24** (1963), 244-250.

4. On products of ordered automata II (in Russian), *Acta Sci. Math.,* **25** (1964), 124-128.

5. On the mathematical theory of automata (in Hungarian), *Year Book of MTESZ* Szeged, 1964, 45-63 (with I. Peák).

6. Automata with isomorphic semigroups (in Russian), *Acta Sci. Math.*, **26** (1965), 43-47 (with I. Peák).

7. On loop-free compositions of automata (in Russian), *Acta Sci. Math.*, **26** (1965), 264-272.

8. On the groups of one-to-one mappings defined by finite automata (in Russian), *Kibernetika (Kiev)*, 1965 N°1, 37.

9. On the groups of automaton permutations (in Russian), *Kibernetika (Kiev)*, 1965 N°5, 14-17 (with B. Csákány).

10. Algebraic theory of automata (in Hungarian), *Mat. Lapok*, **17** (1966), 77-134 (with I. Peák).

11. On R-products of automata I, *Studia Sci. Math. Hungar.*, **1** (1966), 437-448.

12. On R-products of automata II, *Studi Sci. Math. Hungar.*, **1** (1966), 443-447.

13. On R-products of automata III, *Studia Sci. Math. Hungar.*, **2** (1967), 163-166.

14. On the family of automaton mappings (in Russian), *Acta Sci. Math.*, **28** (1967), 39-54.

15. On many-tact automata (in Russian), *Acta Sci. Math.*, **28** (1967), 55-63.

16. Complete systems of automata, *Proceedings of the 2nd Czechoslovak Conference on Automata Theory*, Brno, 1968, 59-62.

17. Metrically complete systems of automata (in Russian), *Kibernetika (Kiev)*, 1968 N°3, 96-101.

18. On complete systems of automata, *Acta Sci. Math.*, **30** (1969), 295-300.

19. On certain classes of Σ-structures, *Acta Sci. Math.*, **31** (1970), 191-195.

20. On equational classes of unoids, *Acta Sci. Math.*, **34** (1973), 99-101 (with S. Székely).

21. Model theoretical methods in the theory of automata, *Proceedings of the Symposium on Mathematical Foundations of Computer Science*, High Tatras, 1973, 57-63.

22. Fundamentals of automata theory (in Hungarian), *Természet Világa*, **104** (1973), 232-238.

23. On subdirect representation of finite commutative unoids, *Acta Sci. Math.*, **36** (1974), 33-38.

24. Composition of automata, *Proceedings of the 2nd Colloquium on Automata, Languages and Programming,* Saarbrücken, 1974, Springer Lecture Notes in Computer Science, Volume 14, 351-363.

25. On loop-free composition of commutative automata, *Proceedings of the Symposium on Discrete Systems,* Riga, 1974, 128-137.

26. Isomorphic representation of automata, *Proceedings of the 4th Symposium on Mathematical Foundations of Computer Science,* Marianske Lazne, 1975, Springer Lecture Notes in Computer Science, Volume 32, 226-230.

27. Representation of automaton mappings in finite length, *Acta Cybernet.,* **2** (1976), 285-289.

28. On products of abstract automata, *Acta Sci. Math.,* **38** (1976), 21-43.

29. On representation of trees and context-free languages by tree automata, *Found. Control Engrg.,* **1** (1976), 161-168 (with Gy. Horváth).

30. Universal algebras and tree automata, *Fundamentals of Computation Theory,* Proc. 1977 International FCT Conference, Poznan-Kornik, Springer Lecture Notes in Computer Science, Volume 53, 98-112.

31. Algebra and logic in theoretical computer science, *Mathematical Foundations of Computer Science,* Proc. 6th Symp., Tatranská Lomnica 1977, Springer Lecture Notes in Computer Science, Volume 54, 78-92 (with P. Tóth).

32. Minimal ascending tree automata, *Acta Cybernet.,* **4** (1978), 37-44 (with M. Steinby).

33. Algebraic theory of tree automata I (in Hungarian), *Mat. Lapok,* **26** (1975), 169-207 (with M. Steinby).

34. Algebraic theory of tree automata II (in Hungarian), *Mat. Lapok,* **27** (1976-1979), 283-336 (with M. Steinby).

35. On the periodic sum of finite automata, *Found. Control Engrg.,* **5** (1980), 229-231 (with B. Imreh).

36. Tree transformations preserving recognizability, in: *Finite Algebra and Multiple-Valued Logic,* Szeged, 1979, Coll. Math. Soc. J. Bolyai, Volume 28, North-Holland P.C., 1981, 251-273.

37. On complete systems of tree automata, *Conference on System Theoretical Aspects in Computer Science,* Salgótarján, 1982, 103-111.

38. On a representation of deterministic frontier-to-root tree transformations, *Acta Sci. Math.,* **45** (1983), 177-187.

39. On a representation of deterministic uniform root-to-frontier tree transformations, *Acta Cybernet.,* **6** (1983), 173-180.

40. General products and equational classes of automata, *Acta Cybernet.*, **6** (1983), 281-284 (with Z. Ésik).

41. Products of automata, *Proceedings of the Summer School on Applications of Mathematics in Techniques,* Varna, 1984. 5-14.

42. Finite representations and infinite products, *Papers on Automata Theory,* 1984-2, 55-63.

43. Metric representations by ν_i-products, *Acta Cybernet.*, **7** (1985), 203-209.

44. On ν_i-products of commutative automata, *Acta Cybernet.*, **7** (1985), 55-59.

45. Metric equivalence of tree automata, *Acta Sci. Math.*, **48** (1985), 163-171.

46. Type-independent equational classes and metric equivalence of tree automata, *Fund. Inform.*, **9** (1986), 205-216 (with Z. Ésik).

47. On α_i-products of automata. Homomorphic representation, in: *Algebra, Combinatorics and Logic in Computer Science,* Győr, 1983, Coll. Math. Soc. J. Bolyai, Volume 42, North-Holland P.C., 1986, 403-421.

48. Homomorphic realization of automata with composition, *Proc. Symp. on Mathematical Foundations of Computer Science,* Bratislava, 1986, Springer Lecture Notes in Computer Science, Volume 233, 299-307 (with P. Dömösi, Z. Ésik, and J. Virágh).

49. On α_0-products and α_2-products, *Theoret. Comput. Sci.*, **48** (1986) 1-8 (with Z. Ésik).

50. On metric equivalence of ν_i-products, *Acta Cybernet.*, **8** (1987), 129-134 (with B. Imreh).

51. On α_i-products of tree automata, *Acta Cybernet.*, **8** (1987), 135-141 (with B. Imreh).

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53. A comparison of α_i-products and ν_i-products, *Found. Control Engrg.*, **12** (1987), 3-9 (with B. Imreh).

54. Automata over algebras with dimension, *Proceedings of the East European Category Seminar,* Predele, 1987, 11 (with H. Jürgensen).

55. Characterizations of locally transitive semiautomata, *Papers on Automata Theory,* 1987-2, 1-8 (with G. Thierrin).

56. On a special class of tree automata, *2nd Conf. on Automata, Languages and Programming Systems,* 1988. 141-152 (with B. Imreh).

57. The role of theory in computer science, *EATCS Bulletin,* Number 30, 1988, 295-297.

58. A decidability result for homomorphic representation of automata by α_0-products, *Acta Math. Hungar.,* **53** (1-2) (1989) 205-212 (with Z. Ésik).

59. On star products of automata, *Acta Cybernet.,* **9** (1989), 167-172 (with B. Imreh).

60. Simulation by ν_1^*-products of automata, *Publ. Math.,* **36** (1989), 51-56 (with P. Dömösi).

61. Automata represented by products of soliton automata, *Theoret. Comput. Sci.,* **74** (1990), 163-181 (with H. Jürgensen).

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66. On finite isomorphically complete systems of tree automata, *Acta Sci. Math.,* **57** (1993), 497-502 (with B. Imreh).

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68. On completeness of nondeterministic automata, *Acta Math. Hungar.,* **68** (1995), 151-159 (with B. Imreh).

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70. On two classes of formal languages (in Hungarian), *Polygon,* **5** 1995, 1-13.

71. Dependence in algebras, *Fund. Inform.,* **25** (1996), 247-256 (with H. Jürgensen).

72. On complete sets of tree automata, Proceedings of the 3rd International Conference *Developments in Language Theory,* Thessaloniki, July 20-23, 1997, 37-47 (with B. Imreh).

73. On the existence of finite isomorphically complete systems, *J. Aut. Lang. and Comb.,* to appear (with B. Imreh and A. Pluhár).

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