

Forrás: <http://www.inf.u-szeged.hu/~imreh/impub.htm>

Balázs Imreh publications

Textbooks (in Hungarian):

- 1.Imreh, B., *Operációkutatás*, JATEPress, 1997.
- 2.Imreh, B., *Bevezetés az operációkutatásba*, JATE ÁJTK, 1998.
- 3.Imreh, B., *Kombinatorikus Optimalizálás*, NOVODAT, Győr, 1999.
- 4.Bajalinov E., Imreh, B., *Operációkutatás*, POLYGON, Szeged, 2001.

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- 5.Imreh, B., On a theorem of G. Birkhoff, *Publicationes Mathematicae* **15** (1968), 147-148.
- 6.Imreh, B., On and α_i -products of automata, *Acta Cybernetica* **3** (1978), 301-307.
- 7.Imreh, B., On isomorphic representations of commutative automata with respect to and α_i -products, *Acta Cybernetica* **5** (1980), 21-32.
- 8.Gécseg, F., B. Imreh, A note on the periodic sum of finite automata, *Foundations of Control Engineering*, **5** (1980), 229-231.
- 9.Ésik, Z., B. Imreh, Remarks on finite commutative automata, *Acta Cybernetica* **5** (1981), 143-146.
- 10.Ésik, Z., B. Imreh, Subdirectly irreducible commutative automata, *Acta Cybernetica* **5** (1981), 251-260.
- 11.Imreh, B., On finite nilpotent automata, *Acta Cybernetica*, **5** (1981), 281-293.
- 12.Imreh, B., On products of automata, *Papers on Automata Theory IV*, K. Marx Univ. of Economics, Dept. of Math., Budapest, 1982, No. DM 82-1, 1-15.
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- 15.Imreh, B., On finite definite automata, *Acta Cybernetica* **7** (1984), 61-65.

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- 17.Gécseg, F., B. Imreh, On α -products of tree automata, *Acta Cybernetica* **8** (1987), 135-141.
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- 19.Gécseg, F., B. Imreh, A comparison of $<$ and α -products and μ -products, *Foundations of Control Eng.* **12** (1987), 1-9.
- 20.Imreh, B., A note on the μ -product, *Acta Cybernetica* **8** (1988), 242-252.
- 21.Csirik, J., B. Imreh, On the worst-case performance of the NkF bin-packing heuristic, *Acta Cybernetica* **9** (1988), 89-105.
- 22.Gécseg, F., B. Imreh, On star-product of automata, *Acta Cybernetica* **9** (1989),43-46.
- 23.Gécseg, F., B. Imreh, Finite isomorphically complete systems, *Discrete Applied Mathematics* **36** (1992), 307-311.
- 24.Imreh, B., On a special composition of tree automata, *Acta Cybernetica* **10** (1992), 237-242.
- 25.Gécseg, F., B. Imreh, On finite isomorphically complete systems of tree automata, *Acta Sci. Math.* **57** (1993), 497-502.
- 26.Imreh, B., M. Ito, A note on the regular strongly shuffle-closed languages, *Acta Cybernetica* **11** (1994), 257-260.
- 27.Gécseg, F., B. Imreh, On completeness of nondeterministic automata, *Acta Math. Hungar.* **68** (1995), 151-159.
- 28.Gécseg, F., B. Imreh, On the cube-product of nondeterministic automata, *Acta Sci.Math. (Szeged)* **60** (1995), 321-327.
- 29.Dudás T., I. Bartalos, B. Imreh, On a tour construction heuristic for the asymmetric TSP, *Acta Cybernetica* **12** 1995, 209-216.
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- 31.Imreh, B., M. Steinby, Some Remarks on Directable Automata, *Acta Cybernetica* **12** (1995), 23-36.
- 32.Blázsik, Z., B. Imreh, A note on connection between PNS and set covering problems, *Acta Cybernetica* **12** (1996), 309-312.

- 33.Imreh, B., Compositions of nondeterministic automata, *RIMS Kokyuroku* **960** (1996), 44-53.
- 34.Imreh, B., M. Ito, On and α -product of nondeterministic automata, *Algebra Colloquium* **4** (1997), 195-202.
- 35.Imreh, B., On and α -product of nondeterministic tree automata, *Acta Cybernetica* **13** (1997), 41-54.
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- 37.Fülöp J., F. Friedler, B. Imreh, On the reformulation of some classes of PNS-problems as set covering problems, *Acta Cybernetica* **13** (1998), 329-337.
- 38.Friedler, F., L. T. Fan, B. Imreh, Process network synthesis: Problem definition, *Networks* **28** (1998), 119-124.
- 39.Imreh, B., G. Magyar, Empirical Analysis of Some Procedures for Solving Process Network Synthesis Problem, *Journal of Computing and Information Technology - CIT* **6** (1998), 373-382.
- 40.Blázsik, Z., Cs. Holló, B. Imreh, Explicit bound for the number of feasible solutions of special PNS-problem classes, *P.U.M.A* **9** (1998), 17-27.
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- 43.Imreh, B., M. Ito, A note on the star-product, *Acta Cybernetica* **14** (1999), 99-104.
- 44.Bogdanovic, S., M. Ciric, B. Imreh, T. Petkovic, M. Steinby, Traps, Extensions and Subdirect Decomposition of Unary Algebras, *Fundamenta Informatica* **38**, (1999), 51-60.
- 45.Ciric, M., B. Imreh, M. Steinby, Subdirectly irreducible definite, reverse-definite, and generalized definite automata, *Univ. Beograd, Publ. Elektrotechn. Fak. Ser. Mat.* **10** (1999), 69-79.
- 46.Imreh, B., M. Ito, Nondeterministic directable automata and related languages, *RIMS Kokyuroku* **1106** (1999), 81-87.
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- 48.Blázsik, Z., Cs. Holló, B. Imreh, Cs. Imreh, Z. Kovács, On a well-solvable class of the PNS problem, *Novi Sad Journal of Mathematics* **30** (2000), 21-30.

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54. Gécseg, F., B. Imreh, On isomorphic representations of generalized definite automata, *Acta Cybernetica* **15** (2001), 33-44.
55. Gécseg, F., B. Imreh, On monotone automata and monotone languages, *Journal of Automata, Languages and Combinatorics*, **7** (2002), 71-82.
56. Imreh, B., Automaton theory approach for solving modified PNS problems, *Acta Cybernetica*, **15** (2002), 327-338.
57. Imreh, B., Cs. Imreh, M. Ito, On directable nondeterministic trapped automata, *Acta Cybernetica*, **16** (2003), 37-45.
58. Imreh, B., Cs. Imreh, M. Ito, On directable nondeterministic monotonic automata, *Journal of Automata, Languages and Combinatorics*, **8** (2003), 539--547.

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60. Imreh, B., and α_1 -proizvogyenyij, *MTA SZTAKI Tanulmányok* 137/1982, 171-179.
61. Dömösi, P., B. Imreh, On the decomposition of cellular automata, in: Conference on System Theoretical Aspects in Computer Science, Salgótarján, 1982, 80-87.
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64. Horváth, Gy., B. Imreh, On product of tree automata, in: Conference on Automata, Languages and Programming Systems, Salgótarján, 1986, 129-136.

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66. Dömösi, P., Z. Ésik, B. Imreh, On product Hierarchies of automata, Lecture Notes in Computer Science 380, FCT'89, (ed. J. Csirik, J. Demetrovics, F. Gécseg), Springer-Verlag, Proc., 137-145.
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72. Blázsik Z., Cs. Holló, B. Imreh, Kiszámolható korlátok speciális PNS-probléma osztályok lehetséges megoldásainak a számára, in: *Új utak a magyar operációkutatásban*, Dialóg Campus Kiadó, Budapest-Pécs, 1999, 182-194.
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74. Gécseg, F., B. Imreh, On isomorphic representation of monotone tree and nondeterministic tree automata, in: *Words, Semigroups, Transductions*, eds.: M. Ito, Gh. Paun, S. Yu, World Scientific, New Jersey - London - Singapore - Hong Kong, 2001, 141-154.
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73.Imreh, B., Studies on the generalized sequential machines, (Doctoral Thesis in Hungarian),1975.

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