

List of Publications of Csanád Imreh

Books, Book chapters

- [A1] B. Imreh, Cs. Imreh, Combinatorial Optimization, 2005 Novodat Bt, 2005 (In hungarian)
- [A2] Cs. Imreh, Competitive analysis, In *Algorithms of Informatics Volume 1*, ed. Antal Iványi, mondAt, Budapest 2007, 395–428.

Journal papers in English

- [B1] Cs. Holló, Z. Blázsik, Cs. Imreh, Z. Kovács, On Merging Reduction of the Process Network Synthesis Problem, *Acta Cybernetica* **14**, 1999, 251–262.
- [B2] Z. Blázsik, Cs. Holló, B. Imreh, Cs. Imreh, Z. Kovács, On bottleneck and k -sum versions of the Process Network Synthesis problems, *Novi Sad Journal of Mathematics* **30**, 2000, 11–19.
- [B3] Z. Blázsik, 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.
- [B4] Cs. Imreh, A new well-solvable class of PNS problems, *Computing*, **66**, 2001, 289–296.
- [B5] Cs. Imreh, Online strip packing with modifiable boxes, *Operations Research Letters*, **29**, 2001, 79–86.
- [B6] Cs. Imreh, An online scheduling algorithm for a two-layer multiprocessor architecture, *Acta Cybernetica* **15**, 2001, 163–172
- [B7] L. Epstein, Cs. Imreh, R. van Stee, More on Weighted Servers or FIFO is better than LRU, *Theoretical Computer Science* **306**, 2003, 305–317. (preliminary version [D5])
- [B8] B. Imreh, Cs. Imreh, M. Ito, On directable nondeterministic trapped automata *Acta Cybernetica*, **16**, 2003, 37–45.
- [B9] B. Imreh, Cs. Imreh, M. Ito, On Monotonic Directable Nondeterministic Automata, *Journal of Automata, Languages and Combinatorics*, **8**, 2003, 539–547.
- [B10] Cs. Imreh, Scheduling problems on two sets of identical machines, *Computing*, **70**, 2003, 277–294,
- [B11] Cs. Imreh, Z. Kovács, On pollution minimization in the optimization models of process network synthesis, *Chemical Engineering Transactions*, **7(2)**, 2005, 565–570.
- [B12] Z. Blázsik, T. Bartók, B. Imreh, Cs. Imreh and Z. Kovács: Heuristics on a common generalization of TSP and LOP, *Pure Mathematics and Applications*, **17(3-4)**, article 4
- [B13] J. Dombi, Cs. Imreh, N. Vincze, Learning lexicographical order, *European Journal on Operation Research*, **183(2)**, 2007, 748–756

- [B14] J. Nagy-György, Cs. Imreh, On-line scheduling with machine cost and rejection, *Discrete Applied Mathematics* **155**, 2007, 2546–2554
- [B15] L. Epstein, Cs. Imreh, A. Levin, Class constrained bin covering *Theory of Computing Systems*, to appear, (DOI 10.1007/s00224-008-9129-7)
- [B16] Z. Blázsik, Cs. Imreh, Z. Kovács, Heuristic algorithms for a complex parallel machine scheduling problem, *Central European Journal of Operations Research*, to appear, DOI:10.1007/s10100-008-0066-y
- [B17] Cs. Holló, B. Imreh, Cs. Imreh, Reduction techniques for the PNS problems: a novel technique and a review, *Optimization and Engineering*, to appear, DOI: 10.1007/s11081-008-9054-2
- [B18] J. Nagy-György, Cs. Imreh, Online hypergraph coloring, *Information Processing Letters*, to appear, DOI:10.1016/j.ipl.2008.08.009
- [B19] Cs. Imreh, On-line scheduling with general machine cost functions, (preliminary versions [D6], [D9]) *Discrete Applied Mathematics*, to appear
- [B20] Cs. Imreh, M. Ito, On monogenic nondeterministic automata, *Acta Cybernetica* to appear
- [B21] L. Epstein, Cs. Imreh, A. Levin, Bin covering with cardinality constraints, submitted for publication

Journal papers in Hungarian

- [C1] Cs. Imreh, Giving a geometric interpretation (in Hungarian) , *POLYGON*, **IV. 2.** (1994), 69-82.
- [C2] Cs. Imreh, Use complex numbers (in Hungarian), *POLYGON*, **VI. 1.** (1996), 65-74.
- [C3] Cs. Imreh, Sz. Imreh, An elementary approach of linear programming (in Hungarian), *POLYGON*, **VII. 1.** (1997), 49-68.
- [C4] Cs. Imreh, On a generalization of the Riemann- integral (in Hungarian), *POLYGON*, **VII. 2.** (1997), 15-34.
- [C5] B. Imreh, Cs. Imreh, Sz. Imreh, On the patching technique and its applications, *Alkalmazott Matematikai Lapok* **22**, 2005, 85–96.

Papers in Conference Proceedings in English

- [D1] Cs. Imreh, J. Noga, Scheduling with Machine Cost, In *Randomization Approximation and Combinatorial Optimization Algorithms and Techniques*, LNCS 1671 ed.: D. Hochbaum and K. Jansen, 1999, 168–176.
- [D2] Z. Blázsik, Cs. Holló, Cs. Imreh, Z. Kovács, Heuristics for the PNS problem, *Optimization Theory, Mátrahaza 1999, Applied Optimization* **59** eds. F. Gianessi, P. Pardalos, T. Rapcsák, Kluwer Academic Publishers, Dordrecht, Boston, London, 2001, 1–18.

- [D3] M. Chrobak, J. Csirik, Cs. Imreh, J. Noga, J. Sgall, G. Woeginger, The Buffer Minimization Problem for Multiprocessor Scheduling with Conflicts, *Proceedings of ICALP 2001, LNCS 2076* 2001, 862–874.
- [D4] J. Csirik, Cs. Imreh, J. Noga, S. S. Seiden, G. Woeginger, Buying a constant competitive ratio for paging, *Proceedings of ESA 2001, LNCS 2161*, 2001, 98–108.
- [D5] L. Epstein, Cs. Imreh, R. van Stee, More on Weighted Servers or FIFO is better than LRU, *Proceedings of MFCS 2002(27th International Symposium on Mathematical Foundations of Computer Science)*, *LNCS 2420*, 2002, 257–268.
- [D6] Cs. Imreh, On the generalized models of on-line scheduling with machine cost *Proceedings of MAPSP 2005 (7-th Workshop on Models and Algorithms for Planning and Scheduling Problems)*, 2005, 151–152.
- [D7] Z. Blázsik, B. Imreh, Cs. Imreh, Z. Kovács, The TSP problem with internal transports, *Proceedings of microCAD 2006, International Scientific Conference, Material flow system, Logistics section* 2006, 9–13.
- [D8] Z. Blázsik, B. Imreh, Cs. Imreh, Z. Kovács, On a bin packing approach of a shipment construction problem, *Proceedings of microCAD 2006, International Scientific Conference, Material flow system, Logistics section* 2006, 15–19.
- [D9] Cs. Imreh On-line scheduling with general machine cost functions *Electronic Notes in Discrete Mathematics* **Vol 27**, 2006, 49-50
- [D10] Cs. Imreh, T. Németh, On time lookahead algorithms for the online data acknowledgement problem *Proceedings of MFCS 2007 (32nd International Symposium on Mathematical Foundations of Computer Science)* *LNCS 4708*, 2007, 288-297
- [D11] Cs. Imreh, T. Németh, On empirical analysis for online algorithms for the data acknowledgment problem, *Proceedings of microCAD 2008, International Scientific Conference, Mathematics and Computer Science section* 2008, 2–6.

Papers in Conference Proceedings in Hungarian

- [E1] Cs. Imreh, Some well-solvable PNS classes (in Hungarian), 168-181, *New lines in the Hungarian Operations Research* ed.: Komlósi, S. and Szántai T., Dialóg Campus Kiadó, Budapest-Pécs, (1999)
- [E2] Cs. Imreh, Online problems with purchasable resources *Proceedings of the V-th conference of Pro Scientia Gold Medal Winners*, 2000, 157-161.
- [E3] Cs. Imreh, The online k-server problem, *Proceedings of the VI-th conference of Pro Scientia Gold Medal Winners*, 2003, 105-108.
- [E4] Cs. Imreh, Process Network Synthesis, *Proceedings of the VII-th conference of Pro Scientia Gold Medal Winners*, 2004, 101-104.