

List of publications 6.5.2012

A. Journal articles

1. Erkki Mäkinen, On certain properties of left Szilard languages. *Elektronische Informationsverarbeitung und Kybernetik* 19, 10/11 (1983), 497-501.
2. Erkki Mäkinen, Boundedness testing for unambiguous context-free grammars. *Information Processing Letters* 17 (1983), 181-183.
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4. Erkki Mäkinen, On derivation preservation. *Information Processing Letters* 19 (1984), 225-228.
5. Erkki Mäkinen, A note on undercover relation. *Information Processing Letters* 20 (1985), 19-21.
6. Erkki Mäkinen, A note on depth-first derivations. *BIT* 25 (1985), 293-296.
7. Erkki Mäkinen, An undecidable problem for context-free grammars. *Information Processing Letters* 20 (1985), 141-142.
8. Erkki Mäkinen, On permutative grammars generating context-free languages. *BIT* 25 (1985), 604-610.
9. Erkki Mäkinen, On homomorphic images of Szilard languages. *International Journal of Computer Mathematics* 18 (1986), 239-245.
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11. Erkki Mäkinen, A note on pure grammars. *Information Processing Letters* 23 (1986), 271-274.
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19. Erkki Mäkinen, Two complexity measures for context-free languages. *International Journal of Computer Mathematics* 26 (1988), 29-34.

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23. Erkki Mäkinen, Splay trees as priority queues. *International Journal of Computer Mathematics* 31 (1989), 55-62.
24. Erkki Mäkinen, On the subtree isomorphism problem for ordered trees. *Information Processing Letters* 32 (1989), 271-273.
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26. Erkki Mäkinen, Experiments on drawing 2-level hierarchical graphs. *International Journal of Computer Mathematics* 36 (1990) 175-181.
27. Jyrki Katajainen and Erkki Mäkinen, A note on the complexity of trie compaction. *EATCS Bulletin* 41 (1990), 212-216.
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52. Erkki Mäkinen, A note on the grammatical inference problem for even linear languages. *Fundamenta Informaticae* 25, 2 (1996), 175-181.
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63. Isto Aho, Erkki Mäkinen and Tarja Systä, Remarks of the thickness of a graph. *Information Sciences* 108 (1998), 1-4.
64. Erkki Mäkinen, Binary tree code words as context-free languages. *The Computer Journal* 41, 6 (1998), 422-424.
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85. Erkki Mäkinen and Tarja Systä, Minimally adequate teacher synthesizes statechart diagrams. *Acta Informatica* 38, 4 (2002) 235-259.
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88. Jarmo Siltaneva and Erkki Mäkinen, A comparison of random binary tree generators. *The Computer Journal* 45, 6 (2002), 653-660.
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99. Hongmei He, Ondrej Sýkora and Erkki Mäkinen, An improved neural network model for the 2-page crossing number problem. *IEEE Transactions on Neural Networks* 17, 6 (2006), 1642-1646.
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107. Heikki Hyyrö Heikki, Antti Laaksonen, Erkki Mäkinen Erkki ja Timo Poranen, Koululaisten tietotekniikkakilpailut Suomessa. *Tietojenkäsittelytiede* 33 (2011), 27-42.
108. Hongmei He, Zhenhuan Zhu and Erkki Mäkinen, Task-oriented Distributed Decision Making in Wireless Sensor Networks. Submitted for publication to *Information Sciences*.

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111. Hongmei He, Erkki Mäkinen, Imrich Vrto, and Ana Sălăgean, Conjectures of two-page crossing for some structural graphs. Submitted for publication.
112. Liliana Cojocaru and Erkki Mäkinen, The Complexity of Szilard Languages of Matrix Grammars Revisited. Submitted for publication in *Fundamenta Informaticae*.
113. Ismo Lapinleimu and Erkki Mäkinen, Reinforcing the Spring Algorithms: The Taguchi Approach . Submitted for publication.

B. Conference articles

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121. Johannes Koskinen, Erkki Mäkinen and Tarja Systä, Minimally adequate synthesizer tolerates inaccurate information during behavioral modeling. *Proceedings of the Second International Workshop on Soft Computing Applied to Software Engineering (SCASE 2001)*, Enschede, The Netherlands, Feb. 8-9, 2001.

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126. Timo Poranen, Erkki Mäkinen and Hongmei He, A simulated annealing algorithm for the 2-page crossing number problem. Presented at the *International Network Optimization Conference 2007*, Spa, Belgium.
127. Outi Räihä, Kai Koskimies, Erkki Mäkinen and Tarja Systä, Pattern-based genetic model refinements in MDA, *Proc. of the Nordic Workshop on Model-Driven Engineering (NW-MoDE'08)*, Reykjavik, Iceland, August 2008, 129-144.
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129. Margareta Ackerman and Erkki Mäkinen, Three new algorithms for regular language enumeration, *Proc. of the 15th International Computing and Combinatorics Conference (COCOON'2009)*, Lecture Notes in Computer Science 5609, 178-191.
130. Outi Räihä, Erkki Mäkinen and Timo Poranen, Using Simulated Annealing for Producing Software Architectures. In: *GECCO '09: Proceedings of the 11th Annual Conference Companion on Genetic and Evolutionary Computation Conference*, Montreal, Canada, 2131-2136.
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132. Liliana Cojocaru, Erkki Mäkinen and Ferucio Laurentiu Tiplea, Classes of Szilard Languages in NC^1 . *Proc. of 11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing*, Timisoara, Romania, 2009, IEEE CS Press, 299-306.
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136. Liliana Cojocaru and Erkki Mäkinen, On the Complexity of Szilard Languages of Regulated Grammars. *Theoretical Aspects of Computing -- ICTAC 2011*, Lecture Notes in Computer Science 6916, Johannesburg, South Africa, 2011, 77-94.
137. Outi Räihä, Kai Koskimies and Erkki Mäkinen, Generating Software Architecture Spectrum with Multi-Objective Genetic Algorithms. In *Proc. of Third World Congress on Nature and Biologically Inspired Computing (NaBIC2011)*, IEEE Press, 29-36.
138. Liliana Cojocaru and Erkki Mäkinen, On the Complexity of Szilard Languages of Matrix Grammars. *Proc. of the 13th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2011)*, 339-347.

C. Book chapters

139. Outi Räihä, Hadaytullah, Kai Koskimies and Erkki Mäkinen, Synthesizing Architecture from Requirements: A Genetic Approach. In: P. Avgeriou, J. Grundy, J.G. Hall, P. Lago and I. Mistrik (eds.), *Relating Software Requirements and Architectures*, Springer, 2011, 307-331. (Ch. 18).

D. Technical reports

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E. Others

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