

List of Publications

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Books

- A. Meduna and P. Zemek. *Regulated Grammars and Their Transformations*. Faculty of Information Technology, Brno University of Technology, Brno, CZ, 2010, p. 239.

International Journal Papers

- A. Meduna and P. Zemek. On One-Sided Forbidding Grammars and Selective Substitution Grammars. *International Journal of Computer Mathematics*. In press.
- A. Meduna and P. Zemek. Workspace theorems for regular-controlled grammars. *Theoretical Computer Science*. 412(35):4604–4612, 2011.
- A. Meduna and P. Zemek. One-sided random context grammars. *Acta Informatica*. 48(3):149–163, 2011.
- L. Ďurfina, J. Křoustek, P. Zemek et al.: Design of a Retargetable Decompiler for a static platform-independent malware analysis. *International Journal of Security and Its Applications*. 5(4): 91–106, 2011.

International Conference Papers

- A. Meduna and L. Vrábel and P. Zemek. LL leftmost k -linear scattered context grammars. In: *SCLIT'11: Symposium on Computer Languages, Implementations and Tools*, Halkidiki, GR, 2011.
- A. Meduna and L. Vrábel and P. Zemek. On nondeterminism in programmed grammars. In: *AFL'11: 13th International Conference on Automata and Formal Languages*, Debrecen, HU, 2011.
- L. Ďurfina, J. Křoustek, P. Zemek et al.: Design of a retargetable decompiler for a static platform-independent malware analysis, In: *ISA'11: The 5th International Conference on Information Security and Assurance*, Brno, CZ, 2011
- L. Ďurfina, J. Křoustek, P. Zemek et al.: Advanced static analysis for decompilation using scattered context grammars, In: *ACC'11: Proceedings of the Applied Computing Conference*, Angers, FR, 2011
- L. Ďurfina, J. Křoustek, P. Zemek et al.: Design of an automatically generated retargetable decompiler, In: *ECCS'11: 2nd European Conference of Computer Science*, Puerto de la Cruz, Tenerife, ES, 2011

Student Competition Papers

- P. Zemek. On the nonterminal complexity of left random context EOL grammars. In: *Student EEICT 2011*, Brno, CZ, 2010.

Unpublished Papers

- A. Meduna and P. Zemek. Nonterminal complexity of one-sided random context grammars. Submitted to *Acta Informatica*.
- A. Meduna and P. Zemek. On the generation of sentences with their parses by propagating regular-controlled grammars. Submitted to *Theoretical Computer Science*.
- A. Meduna and P. Zemek. One-sided random context grammars with leftmost derivations. Submitted to *LNCS Festschrifts Series "Languages Alive – Essays Dedicated to Jürgen Dassow on the Occasion of his 65th Birthday"*.

- A. Meduna and P. Zemek. Left random context ET0L grammars. Submitted to *Fundamenta Informaticae*.
- A. Meduna and P. Zemek. Nonterminal complexity of left random context EOL grammars. Submitted to *Information Processing Letters*.
- A. Meduna and P. Zemek. Jumping finite automata. Submitted to *International Journal of Foundations of Computer Science*.
- A. Meduna and P. Zemek. Generalized one-sided forbidding grammars. Submitted to *International Journal of Computer Mathematics*.
- A. Meduna and P. Zemek. On elimination of erasing rules from E0S grammars. Submitted to *MEMICS 2011*.
- A. Meduna and L. Vrábel and P. Zemek. LL random context grammars. Submitted to *Kybernetika*.
- P. Zemek. Normal forms of one-sided random context grammars. Submitted to *EEICT 2012*.
- A. Meduna and P. Zemek. Controlled pure grammar systems. Manuscript.
- A. Meduna and L. Vrábel and P. Zemek. An infinite hierarchy of language families resulting from stateless pushdown automata with limited pushdown alphabets. Manuscript.
- Z. Krivka and A. Meduna and P. Zemek. A new normal form for phrase-structure grammars. Manuscript.