

Curriculum Vitae

Contact Information

Name: Szabolcs IVÁN
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University of Szeged
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Education

Doctoral School of Mathematics and Computer Science,
University of Szeged, 2005–2008.
Thesis: Logic and tree automata.
Supervisor: Zoltán Ésik.
Date of defence: June 13, 2008.

MSc in Computer Science with honors, University of Szeged, 2005.
Thesis: The iterated shuffle on languages.
Supervisor: Zoltán Ésik.

Scientific degree

Ph.D. in Computer Science, January 2009. (summa cum laude)

Employment

- Assistant lecturer, Dept. of Computer Science, Univ. Szeged, since 2008.
- Software Developer, Scriptum Informatics, 2006–2008.

Teaching experience

Teaching assistant for the following courses at the University of Szeged:
Operation Research, Numerical Mathematics, Algorithms and Data Structures,
Automata and Formal Logic (one semester each), Formal Languages and Syntax
Parsing (three semesters), Foundations of Computer Science (three semesters),
Logic in Computer Science (four semesters), Introduction to Computational
Complexity (seven semesters).

Awards and Honors

- Pro Scientia Gold Medal for excellence in research in the nationwide competition of graduate students, 2005.
- “Most Valuable Scientific Result” Award and first prize in the Hungarian National Conference of Scientific Students’ Associations (OTDK), 2005.
- “Prominent Student of the Faculty of Science of the University of Szeged” Award, 2004.
- First place of the Local ACM Programming Contest at the University of Szeged in 2002, 2003 and 2004.

Fellowships

PhD Fellowship in Computer Science, 2005 –2008.

Fellowship of the Hungarian Republic, 2002–2005.

Fellowship of the City of Szeged, 2004–2005.

Publications

- Z. Ésik, Sz. Iván. Büchi Context-free Languages. *Theoretical Computer Science*, to appear.
- Z. Ésik, Sz. Iván. Extended temporal logics on finite trees. In: *Automata, Formal Languages and Algebraic Systems*, eds. Masami Ito, Yuji Kobayashi and Kunitaka Shoji, World Scientific, to appear.
- Z. Ésik, Sz. Iván. A family of temporal logics on finite trees. *Publ. Math. Debrecen* 77, p. 277–297, 2010.
- Z. Ésik, Sz. Iván. On Müller context-free grammars. In: *DLT 2010, proceedings*, LNCS 6224, Springer, p. 173–185, 2010.
- Z. Ésik, Sz. Iván. Context-free languages of countable words, In: *ICTAC 2009, proceedings*, LNCS 5684, Springer, p. 185–199, 2009.
- Zs. Gazdag, Sz. Iván and J. Nagy-György. Improved upper bounds on synchronizing nondeterministic automata. *Information Processing Letters* 109(17), p. 986–990, 2009.
- Z. Ésik and Sz. Iván. Games for Temporal Logics on Trees. In: *CIAA 2008, proceedings*, LNCS 5148, Springer, p. 191–200, 2008.
- Z. Ésik and Sz. Iván. Some Varieties of Finite Tree Automata Related to Restricted Temporal Logics. *Fundamenta Informaticæ* 82(1–2), p. 79–103, 2008.
- Z. Ésik and Sz. Iván. Products of Tree Automata with an Application to Temporal Logic. *Fundamenta Informaticæ* 82(1–2), p. 61–78, 2008.
- Z. Ésik and Sz. Iván. Aperiodicity in Tree Automata. In: *CAI 2007, proceedings*, LNCS 4728, Springer, p. 189–207, 2007.
- Sz. Iván. Iterated shuffle on regular languages. *Alkalmazott Matematikai Lapok* 24, p. 187–209, 2007 (in Hungarian).
- A. Hóczá, Sz. Iván: Learning and recognizing noun phrases. In: *Proceedings of the Hungarian Computational Linguistics Conference (MSZNY 2003)*, Szeged, p. 72 – 79, 2003.