List of Publications

Zoltán Ésik

Books

1. *Iteration Theories: The Equational Logic of Iterative Processes*, EATCS Monograph Series on Theoretical Computer Science, XVI+630 pages, Springer-Verlag, 1993 (coauthor: S.L. Bloom).
2. *Modern Automata Theory*, available from http://www.dmg.tuwien.ac.at/kuich/ (coauthor: W. Kuich, Russian translation: Covremennaja Teoria Avtomatovm Kaliningrad, 2013.)

Edited volumes

1. Mathematical Foundations of Computer Science, Special Issue, Information and Computation, to appear (co-editor: Martin Dieatzfelbinger)
2. Automata and Formal Languages, Special issue, Int. J. Foundatons of Computer Science, Volume: 26, Number: 08 (December 2015)
3. Mathematical Foundations of Computer Science, Vol.II., LNCS 8635, Springer, 2014 (co-editor with E. Csuhaj-Varjú and M. Dietzfelbinger).
4. Mathematical Foundations of Computer Science, Vol.I., LNCS 8634, Springer, 2014 (co-editor with E. Csuhaj-Varjú and M. Dietzfelbinger).
5. Automata and Formal Languages, proceedings of the 2014 conference, EPTCS, vol. 151, 2014 (co-editor: Z. Fülöp).
6. Automata and Formal Languages, spec. issue devoted to the 2011 AFL conference, *Int. J. Foundations of Computer Science*, Vol. 23, No. 6, 2012 (coeditor: P. Dömösi).
7. Fixed Points in Computer Science 2012, *EPTCS*, Vol. 77, 2012 (coeditor with D. Miller).
8. Automata and Formal Languages, special issue devoted to AFL 2008, *Int. J. Foundations of Computer Science*, Volume 21, Number 5, October 2010 (co-editor: E. Csuhaj-Varjú).

9. Fundamentals of Computation Theory. Special issue devoted to papers presented at FCT 07, *Theoretical Computer Science*, Volume 411(2010), Issues 4–5 (co-editor with E. Csuhaj-Varjú).

10. Automata and Formal Languages, *Acta Cybernetica*, Vol. 19, No. 2, 441–565, 2009 (co-editor: E. Csuhaj-Varjú).

11. Automata, Formal Languages, and Related Topics, Dedicated to Ferenc Gécseg on the occasion of his 70th birthday, University of Szeged, 2009 (coeditor: Z. Fülöp).

12. Selected Papers of the Conference "Computer Science Logic 2006" Szeged, Hungary, 2006. *Logical Methods in Computer Science*, published in 2009 (coeditor with R. Ramanujam).

13. Automata and Formal Languages, proceedings of the 2008 conference, Balatonfüred, *Computer and Automation Institute, Hungarian Academy of Science*, 2008 (coeditor with E. Csuhaj-Varjú).

14. Fundamentals of Computation Theory 2007, LNCS 4639, Springer, (coeditor with E. Csuhaj-Varjú).

15. The art of rationality. In honour of Professor Christian Choffrut on the occasion of his 60th birthday. *Theoret. Comput. Sci.*, 356(2006), no. 1-2, 262 pages. (co-iditors: A. Bertoni, J. Karhumäki).

16. AFL 05, Special issue of Acta Cybernetica, Volume 17, No.4, 2006, 663–841.

17. Automata and Formal Languages, Special Issue, Theoretical Computer Science, Volume 366, Number 3, 2006, 181–315.

18. Recent Advances in Formal Languages and Applications, Studies in Computational Intelligence 25, Springer-Verlag, 2006, VIII + 373 pages (coeditor with Victor Mitrana and Carlos Martín Vide).

19. Computer Science Logic 2006, proceedings, LNCS 4207, Springer-Verlag, 2006, XII + 626 pages.

20. Automata and Formal Languages 2005, Proceedings of the 11th International Conference, Dobogókő, May 17–20, Dept. of Informatics, University of Szeged, 2005 (coeditor with Z. Fülöp).

21. Process Algebra, Special Issue, *Theoretical Computer Science*, Vol. 335:2-3(2005) (coeditor with L. Aceto, W. Fokkink and A. Ingólfsdóttir).

22. Fixed Points in Computer Science 03, Warsaw, Special issue of Theoretical Informatics and Applications, 38:4(2004) (coeditor with I. Walukiewicz).

23. Developments in Language Theory, DLT'03, Special issue of Theoretical Computer Science, 327:3(2004) (coeditor with Z. Fülöp).

24. Fixed Points in Computer Science 02, Copenhagen, Special issue of Theoretical Informatics and Applications, 37(2003), 271–391 (coeditor with A. Ingólfsdóttir).

25. Process Algebra: Open Problems and Future Directions, PA '03, Bologna, Italy, 21–25 July 2003, BRICS Notes Series, NS 03-3, 2003 (coeditor with L. Aceto, W. J. Fokkink, A. Ingólfsdóttir).

26. Developments in Language Theory, 7th International Conference, DLT 2003, LNCS 2710, Springer, 2003 (coeditor with Z. Fülöp).

27. Fixed Points in Computer Science 02, Copenhagen, Preliminary Proceedings, BRICS Notes Series, NS-02-2, 2002 (co-editor with A. Ingólfsdóttir).

28. Fixed Points in Computer Science '99, special issue, *Theoretical Informatics and Applications*, 4/5(1999), 309–493.

29. Special issue dedicated to the 60th birthday of Prof. Ferenc Gécseg. *Acta Cybernetica*, Volume 14, Number 1, 1999 (co-editor with J. Csirik, Z. Fülöp and B. Imreh).

30. Christos Papadimitriou, Számítási bonyolultság, Novadat Kiadó, 1999, [Hungarian translation of "Computational Complexity", by Ch. Papadimitriou, Addison-Wesley, 1994.], Ed. Z. Ésik.

31. Fundamentals of Computation Theory, Proceedings of the 1993 FCT Conference (Ed.: Z. Ésik), LNCS 710, Springer-Verlag, 1993.

32. D. E. Knuth: Számok valóson innen és túl, Gondolat, Budapest, 1987 [Hungarian translation of the book "Surreal Numbers", by D. E. Knuth, Reading, MA, 1974] (with J. Virágh).

Refereed journal papers

1. Equational axioms associated with finite automata for fixed point operations in cartesian categories, *Mathematical Structures in Computer Science*, published on line: 08 April 2015 (**IF**: 0.353)

2. Residuated Park theories, *J. Logic and Computation*, 25(2015), 453–471 (**IF** 0.647)

3. A Fixed Point Theorem for Non-Monotonic Functions, *Theoretical Computer Science*, 574(2015), 18–38 (co-author: P. Rondogiannis) (**IF**: 0.516)

4. Operational characterization of scattered MCFLs, *Int. J. Foundations of Computer Science*, 25(2014) 1001–1015 (coauthor: S. Iván) (**IF** 0.326)

5. On the structure of the free iteration semirings, *J. Automata, Languages and Combinatorics*, 19(2014), 57–66 (co-author: T. Hajgató)

6. Minimum Model Semantics for Extensional Higher-order Logic Programming with Negation, *Theory and Practice of Logic Programming*, 14(2014) 725-737 (co-authors: Angelos Charalambidis and Panos Rondogiannis) (**IF** 0.896)

7. Conway and iteration hemirings, Part 1., *Int. J. Algebra and Computation*, 24(2014), 461–482 (co-authors: M. Droste and W. Kuich) (**IF** 0.436)

8. Conway and iteration hemirings, Part 2., *Int. J. Algebra and Computation*, 24(2014), 483–513 (co-authors: M. Droste and W. Kuich) (**IF** 0.436)

9. Axiomatizing weighted synchronization trees and weighted bisimilarity, *Theoretical Computer Science*, 534(2014), 2–24 (**IF** 0.489)

10. On context-free languages of scattered words, *Int. J. Foundations of Computer Science*, Vol. 24, No. 7 (2013) 1029–1047 (co-author: S. Okawa), (**IF** 0.459)

11. The FC rank of a context-free grammar, *Inf. Process. Lett.*, 113(2013), 285–287. (coauthor: A. Carayol). (**IF** 0.488)

12. Free inductive K-semialgebras, *J. of Logic and Algebraic Programming*, 82(2013), 111–122 (co-author: W. Kuich). (**IF** 0.529)

13. On Müller context-free grammars, *Theoretical Computer Science*, 416(2012), 17–32. (coauthor: S. Iván). (**IF** 0.489)

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18. An undecidable property of context-free linear orders, *Information Processing Letters*, 111(2011), pp. 107-109. (**IF** 0.455)

19. Büchi context-free languages, *Theoretical Computer Science*, 412(2011), 805–821 (coauthor: Sz. Iván). (**IF** 0.665)

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21. Algebraic ordinals, *Fundamenta Informaticae*, 99(2010), 383–407 (co-author: S.L. Bloom). (**IF** 0.522)

22. A family of temporal logics on finite trees, *Publ. Math., Debrecen*, 77/3-4 (2010), 277–297. (coauthor: Sz. Iván). (**IF** 0.568)

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25. Axiomatizing the Equational Theory of Regular Tree Languages, *J. Logic and Algebraic Programming*, 79(2010), 189–213. (**IF**: 0.537)

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29. Some varieties of finite tree automata related to restricted temporal logics, *Fundamenta Informaticae*, 82(2008), 79–103 (coauthor: Sz. Iván). (**IF**: 0.715)

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32. Fuzzy boolean sets, *Int. J. Foundations of Computer Science*, 18(2007), 1197-1207 (coauthor: W. Kuich). (**IF**: 0.656)

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34. Fuzzy tree automata, *Fuzzy Sets and Systems*, Volume 158, Issue 13, 1 July 2007, 1450–1460 (coauthor: Guangwu Liu). (**IF**: 1.373)

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40. Algebraic and graph-theoretic properties of infinite n-posets, *Theoretical Informatics and Applications*, 39(2005), 305–322. (**IF**: 0.472) (coauthor: Z. L. Németh).

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42. Axiomatizing omega and omega-op power on words, *Theoretical Informatics and Applications*, 38(2004), 3–18 (coauthor: S. L. Bloom). (**IF**: 0.250)

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93. Results on homomorphic realization of automata by α_0-products, *Theoret. Comput. Sci.*, 87(1991), 229-249. (**IF**: 0.589)

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Refereed conference papers

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