

Curriculum Vitae

DAMIAN NIWIŃSKI

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Current Position

- Professor at the Department of Mathematics, Computer Science, and Mechanics of the Warsaw University.
Vice-director of the Institute of Informatics.

Scientific degrees

- MSc (mathematics), Warsaw University, 1981.
- PhD (mathematics), Warsaw University, 1987.
- Habilitation (computer science), Warsaw University, 1997.
- Degree of a professor (mathematical sciences), Republic of Poland, 2009.

Research interests

Fixed-point calculi, automata on infinite trees, infinite games, topological aspects of infinite computations, temporal data bases, complexity.

PhD supervision (completed)

Filip Murlak (2008), Eryk Kopczyński (2009), Michał Strojnowski (2009).

Program committees

CiE 2012, FSTTCS 2010, MFCS 2009 (co-chair) 2008; FoSSaCS 2007, 1999, 1998; CSL 2006, 2005; FCT 2005; STACS 2003; LICS 2004, 1997; ICALP 2001.

Editorial boards

— *Fundamenta Informaticae* (Editor-in-Chief since 2010).

Community service

President of the European Association for Computer Science Logic (since 2009).
Steering Committee of the conference MFCS (since 2010).
Steering Committee of the workshop FICS (since 2009).

Book

Rudiments of μ -calculus (with André Arnold), Elsevier Science B.V., Studies in Logic and the Foundations of Mathematics, 146, **North-Holland**, Amsterdam, **2001**.

Selection of papers

1. On the separation question for tree languages (with A.Arnold, H.Michalewski), Proc. **STACS 2012**, LIPiCS.
2. Choice functions and well-orderings over the infinite binary tree (with A.Carayol, C.Löding, I.Walukiewicz), **Central European Journal of Mathematics**, vol. 8, no. 4, **2010**, 662-682.
3. On the Borel Complexity of MSO Definable Sets of Branches (with M.Bojańczyk, A.Rabinovich, A.Radziwiłczyk-Syta, and M.Skrzypczak), **Fundamenta Informaticae** 98(4), **2010**, 337-349.
4. On the Borel inseparability of game tree languages (with S.Hummel and H.Michalewski), Proc. **STACS 2009**, 565–576.
5. Continuous Separation of Game Languages (with A.Arnold), **Fundamenta Informaticae** 81 (1-3), **2008**, 19-28.
6. On the positional determinacy of edge-labeled games (with T. Colcombet), **Theoretical Computer Science**, 352 (1–3) **2006**, 190–196.
7. Unsafe grammars and panic automata, (with T. Knapik, P. Urzyczyn, and I. Walukiewicz), *Proc. ICALP 2005*, Springer LNCS 3580, **2005**, 1450-1461.
8. Deciding Nondeterministic Hierarchy of Deterministic Tree Automata (with I. Walukiewicz), Proc. 11th Workshop on Logic, Language, Information and Computation (**WoLLIC 2004**), Electronic Notes in Theoretical Computer Science, 195–208, **2005**.
9. A gap property of deterministic tree languages (with I. Walukiewicz), **Theoretical Computer Science** 303, **2003**, 215–231.
10. μ -calculus via games, *Proc. CSL 2002*, Springer LNCS 2471, 27–43 **2002**.
11. Higher-order pushdown trees are easy (with T. Knapik and P. Urzyczyn), *Proc. FoSSaCS 2002*, Springer LNCS 2303, 205–222, **2002**.
12. On Distributive Fixpoint Expressions (with Helmut Seidl), **Theoretical Informatics and Applications** 33, **1999**, 427-446.
13. The Horn Mu-Calculus (with D.McAllester, W.Charatonik, A.Podelski, I.Walukiewicz), *13th IEEE Symp. on Logic in Computer Science (LICS)*, Indianapolis, June **1998**, 58-69.
14. Relating hierarchies of word and tree automata (with I.Walukiewicz), Proceedings of “15th Annual Symposium on Theoretical Aspects of Computer Science” (**STACS**), Paris, France, February **1998**, LNCS 1373, 320-331.
15. Fixed point characterization of infinite behavior of finite state systems (Fundamental Study), **Theoretical Computer Science**, 189 (**1997**), 1-69.
16. On the Feasibility of Checking Temporal Integrity Constraints (with J.Chomicki), *12th ACM Symposium on Principles of Database Systems (PODS)*, Washington DC, **1993**; **Journal of Computing and System Sci.** Vol. 51, No. 3, **1995**, pp. 523–535.
17. $y = 2x$ vs. $y = 3x$, (with A.Stolboushkin), *8th IEEE Symp. on Logic in Computer Science (LICS)*, Montreal **1993**, 172-178; **Journal of Symbolic Logic**, 62, **1997**, 661-672.