

PD Dr. habil. Tadeusz Litak

Curriculum Vitae with Publication List

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Chair 8 (Theoretical Computer Science)
Department of Computer Science
Friedrich-Alexander-Universität Erlangen-Nürnberg

Includes information about third-party funding, invited talks, community service, publications and teaching.
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1 Academic Degrees and Titles

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| 05/2019 | Habilitation in Computer Science, FAU Erlangen-Nürnberg. Cumulative Thesis: <i>Subverting the Classical Picture: (Co)algebra, Constructivity and Modalities</i> |
| 09/2005 | Ph.D. <i>summa cum laude</i> in Information Science, JAIST. Advisor: Hiroakira Ono. Thesis: <i>An Algebraic Approach to Incompleteness in Modal Logic</i> |
| 09/2001 | Magister (Master) of Philosophy, <i>summa cum laude</i> , Jagiellonian University (UJ). Advisor: Andrzej Wroński. Thesis (in Polish): <i>Niezupełne Logiki Pośrednie (Incomplete Intermediate Logics)</i> |

2 Academic and Professional Appointments

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| 10/2012– present | <i>Akademischer Oberrat</i> (from 10/2018 to 01/2020 as <i>Wissenschaftlicher Mitarbeiter</i> , earlier as <i>Akademischer Rat</i>), FAU Erlangen-Nürnberg, Informatik 8 (Chair of Theoretical Computer Science) |
| 01/2010– 09/2012 | Research Associate, Dept. of Computer Science, University of Leicester, employed on EPSRC grant EP/G041296/1 held by Alexander Kurz and Achim Jung |
| 02/2008– 12/2009 | Research Assistant, Dept. of Computer Science and Information Systems, Birkbeck, University of London, employed on EPSRC grant EP/F002262/1 held by Sven Helmer |
| 05/2007– 01/2008 | Researcher (<i>Onderzoeker</i>), Informatics Institute, University of Amsterdam, supported by an own NWO Rubicon grant (details below) |
| 10/2005– 04/2007 | Researcher (<i>Kenkyuin</i> , in IV.2007 special researcher— <i>Tokubetsu Kenkyuin</i>), School of Information Science, JAIST (Japan Advanced Institute of Science and Technology) supported by the Jinzai Yosei fund of Japan Science and Technology Agency (JST) |

3 Grants, Fellowships and Scholarships

The table only lists funding obtained by myself.

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| 2019–2020 | Senior Descartes Fellowship covering two monthly visits and collaboration with researchers at Utrecht University (Albert Visser and Rosalie Iemhoff); each respective month up to 2500 euros |
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| 2013–2014 | BaCaTeC (Bavaria California Technology Center) travel grant <i>Algebraische Beweistheorie der Modallogik (Algebraic Proof Theory of Modal Logic)</i> , supporting collaboration with CECAT, Chapman University |
| 2007–2008 | NWO (Netherlands Organization for Scientific Research) Rubicon grant fellowship <i>Algebraic Optimization of XPath Fragments</i> (680–50–0613) resulting in my employment as <i>Onderzoeker</i> at the Informatics Institute, University of Amsterdam; EUR 55.000 |
| 2005–2007 | Postdoctoral support of the Jinzai Yosei (Fostering Talents) fund of the Japan Science and Technology Agency (JST) |
| 2002–2005 | Monbukagakusho Scholarship, Japanese Ministry of Education |
| 2004, 2003 | Foundation Travel Grant, JAIST Foundation |
| 2003 | JAMS Travel Grant, Japan Association for Mathematical Sciences |
| 2000–2001 | MEN (Ministry of Education) Scholarship, Polish Ministry of Education |

4 Visiting Positions and Extended Research Visits

This section covers only visits funded by the inviting side.

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| 9/2019 03/2020 | Visiting Albert Visser, Rosalie Iemhoff and her group at the Department of Philosophy, Utrecht University, funded by my Senior Descartes Fellowship (see above) |
| 08/2019 10/2019 | Visiting researcher in the group of Petr Cintula at the Institute of Computer Science of the Czech Academy of Sciences, including collaboration with Marta Bilkova, Igor Sedlár and Andrew Tedder, and a presentation at the Seminar on Applied Mathematical Logic (inviting group covering costs of accommodation, travel and subsistence), 7–27 August and 3–12 October 2019 |
| 04/2015 | A visit to the Group in Logic and the Methodology of Science at the UC Berkeley (by invitation of the Chair of the Group, John R. Steel, and host researcher Wesley H. Holliday), involving research cooperation, a 5 hr. tutorial <i>Socialize with Coalgebraic Logic: An Invitation</i> , and assistance with student supervision (USD 2000 for travel and accommodation costs), 13–18 April 2015 |
| 08/2014 | A visit to the Logic and Semantics Group (by invitation of the Head of Department, Lars Birkedal), Aarhus University, involving research with and presentations for the groups of Lars Birkedal and Olivier Danvy (inviting university covering travel and accommodation costs), 25–29 August 2014 |
| 12/2001 | A visit to ILLC, University of Amsterdam (by invitation of Johan van Benthem), involving a talk at the Computing with LLI Seminar, participation in the Amsterdam Colloquium, in the Farewell to the Spinoza project “Logic in Action”, research discussions with J. van Benthem, P. van Emde Boas and D. de Jongh (funded by van Benthem’s Spinoza project “Logic in Action”) |

See also §§ 6, 9.3, 10, 11 below.

5 Program Committees of International Conferences

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|------------|---|
| 04/2020 | 18th International Conference on Relational and Algebraic Methods in Computer Science (RAMICS 2020), Paris, 8–11 Apr, PC Member |
| 10–11/2018 | 17th International Conference on Relational and Algebraic Methods in Computer Science (RAMICS 2018), Groningen, 29 Oct–2 Nov, PC Member |
| 03–04/2014 | 14th International Conference on Relational and Algebraic Methods in Computer Science (RAMiCS 2014), Marienstatt im Westerwald, 28 Apr–1 May, PC member |
| 08/2012 | 9th International Conference on Advances in Modal Logic (AiML 2012), Copenhagen, 22–25 August, PC member |
| 07/2011 | 5th International Conference on Topologies, Algebra and Categories in Logic (TACL 2011), Marseilles, 26–30 July, PC member |

Program Committees of International Workshops

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| 09/2018 | 3rd International Workshop on AI aspects of Reasoning, Information, and Memory (AIRIM'18), held as a part of AAIA, FedCSIS, Poznań, 9–12 September, PC Member |
| 04/2015 | Workshop on Continuations, WoC'15, Satellite event of ETAPS 2015, London, April 12th, PC Member |

6 Invited Talks and Tutorials

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| 09/2020 | Invited speaker at the 7th International Workshop on Topological Methods in Logic (ToLo VII), 21–25 September, Tbilisi (forthcoming) |
| 07/2019 | Invited speaker at the Proof Theory in Logic workshop, 1–2 July, Utrecht University: <i>Are Strict Conditionals Bunched?</i> |
| 09/2018 | Invited speaker at the 4th SYSMICS Workshop: Duality in Algebra and Logic, 14–17 September, Chapman University, Orange CA: <i>Intuitionistic, Strict and Bunched Implications</i> |
| 07/2018 | Invited speaker at the 6th International Workshop on Topological Methods in Logic (ToLo VI), 2–6 July, Tbilisi: <i>One Modal Logic to Rule Them All?</i> |
| 06/2018 | Invited speaker at the Workshop on Algebra and Duality in Non-classical Logic, 14 June, ILLC, University of Amsterdam: <i>Negative Translations, Enveloped Implications and Normal Modality</i> |
| 06/2016 | Invited speaker at the 5th International Workshop on Topological Methods in Logic (ToLo V), 13–17 June, Tbilisi. Tutorial on <i>Dialogues, Proofs and Programs</i> and a presentation <i>Complete Additivity and Modal Incompleteness</i> |
| 05/2015 | Keynote speaker at the 6th International Workshop “Algebra and Coalgebra meet Proof Theory” (ALCOP), 6–8 May, TU Delft: <i>Completeness, Completions, Canonicity and Cut</i> |
| 07/2012 | Invited speaker at the 3rd International Workshop on Topological Methods in Logic (ToLo III), 23–27 July, Tbilisi: <i>Guarded (co-)recursion, Intuitionistic Modal Logics and Scattered Toposes</i> |
| 04/2012 | Tutorial at the Midlands Graduate School 2012 (MGS 2012), Birmingham, University of Birmingham, 23–27 April: <i>Provability, Fixed Points and Clock Ticks</i> |

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| 06/2011 | Invited speaker at the 2nd International Conference on Order, Algebra, and Logics (OAL), 06–10 June, UJ Kraków: <i>Coalgebraic Logic: Modalities and Beyond</i> |
| 07/2010 | Invited course (15h) at the Summer School Leicester-JXNU 2010, Jangxi Normal University, Nanchang: <i>Queries, Modalities, Relations, Trees, XPath</i> |
| 06/2010 | Invited speaker at the 2nd International Workshop on Topological Methods in Logic (ToLo II), 08–10 June, Tbilisi: <i>Non-canonicity: Two Stories</i> |
| 10/2006 | Invited speaker at the 17th ALGI Research Meeting, 12–13 October, Nara Women's University: <i>Algebraization of Hybrid logic with Binders and The Bounded Fragment of Predicate Logic</i> |
| 05–06/ 2006 | Invited speaker at the Workshop on Mathematical logic and Its Applications, 31 May–2 June, Research Institute for Mathematical Sciences (RIMS), Kyoto University: <i>Completions of GBL-algebras and Acyclic Modal Algebras: Negative Results</i> |
| 10/2005 | Invited speaker at the Workshop on Modern Plural Aspects of Modal Logics: From a Semantical Point of View, 29th PaSTA Research Meeting, 15 October, Graduate School of Letters, Kyoto University: <i>Discrete Frames as Semantics for Modal and Hybrid Logic</i> |

See also §§ 9.3, 10, 11 below.

7 Teaching Experience: Lecturing and Supervision

7.1 Lecturer experience at FAU Erlangen-Nürnberg

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|---|---|
| FAU Erlangen- Nuremberg 2012– present | Teaching SemProg: Practical Semantics of Programming Languages , each summer term since 2013. 4 hrs/wk independent, self-designed course. In 2013, jointly with D. Gorín. 2017 edition assisted by C. Rauch. |
| | Teaching FormSoft: Formal Methods for Software Development , each winter term since 2015/16 as the main lecturer and examiner. 2 hrs/wk of own lectures + 2 hrs/wk of tutorials by C. Rauch. In 2014/15 in charge of tutorials for the same lecture |
| | Teaching LGruDat: Logical Foundations of Database Theory , winter terms 2013/14 and 2016/17. 4 hrs/wk independent, self-designed course. The 2016/17 edition assisted by C. Rauch. |
| | Teaching NoCL: Non-classical Logics in Computer Science , winter term 2015/16, jointly with prof. L. Schröder, jointly designed by both of us. 4 hrs/wk independent course. |
| | Seminar HoTT: Homotopy Type Theory , summer term 2017 (together with dr S. Goncharov), 2 hrs/wk. |
| | Seminar CaP: Categories in Programming , summer term 2015 (together with dr S. Goncharov), 2 hrs/wk. |
| | Seminar SemCurry: Curry-Howard Correspondence , winter term 2013/14 (together with dr D. Gorín), 2 hrs/wk |
| | Supervision of MSc Dissertation of Merlin Göttlinger (2018), Michael Sammler , Matthias Zinner (2019) and Frederik Hasselmeier (scheduled 2020), BSc Dissertations of Miriam Polzer (2015), Michael Banken , Alexander Dietsch (2016), Michael Gebhard (2018) and Frederik Voelkel (2019), master-level projects (Projektarbeit) of Paul Wild , Ulrich Rabenstein/Miriam Polzer (2016), Michael Sammler (2018), Matthias Zinner and Johannes Kern (2019) |

7.2 Lecturer experience at previous universities

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| U. of Leicester 2010– 2012 | Teaching CO7207 Generative Development at the MSc level , winter term 2011/2012. 3 hrs of lectures and 1 hr of surgeries a week (plus 1 hr of lab given by a teaching assistant). |
| | First supervisor of MSc Dissertation of Andrew J. Heighway (awarded 2011). Second supervisor for Constantinos Constantinou (awarded 2010). First supervisor of BSc Dissertations of Siti Nadiah Azahari and Stelios Adamou . Second supervisor of Si Wan Lam, Zara Emma Penrice and Ruksana Ahmad (all awarded 2012) |
| | Moderator of several MSc student discussion groups (as a part of module CO7210, <i>Personal and Group Skills</i>) (2010-2012). An obligatory course, moderated subjects designed and graded independently by myself |

7.3 Summer Schools and Graduate Schools

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| Utrecht U., 2020 (post- poned to 2021) | First lecturer (co-lecturing with Albert Visser) for Lewis meets Brouwer: Constructive strict implication (advanced course) at 32nd European Summer School in Logic, Language and Information (ESSLLI) |
| U. of Birmingham, Apr 2012 | Self-designed advanced course on Provability, fixed points and clock ticks (4 hrs). Midlands Graduate School (MGS 2012), Birmingham |
| JXNU, Jul 2010 | Self-designed course on Queries, Modalities, Relations, Trees, XPath (15 hrs). Invited lecturer at Summer School Leicester-JXNU, Jangxi Normal University, Nanchang, China |

7.4 Tutoring, Managing Tutors and Assistant Teaching

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| FAU 2012–present | Managing tutors for the basic course <i>ThInfWI-A: Theoretische Informatik für Wirtschaftsinformatik und Lehramt</i> (summer terms 2014, 2015, each year since 2017) |
| | Tutoring for <i>KompAlg: Komplexität von Algorithmen</i> (summer term 2013) |
| | Tutoring for <i>GLoLoP: Grundlagen der Logik und Logikprogrammierung</i> (WS 12/13) |
| DCSIS, Birkbeck, U. of London, autumn 2008 and spring 2009 | Assistance as <i>demonstrator</i> and <i>amanuensis</i> to a visually impaired student for modules <i>Programming in C++</i> , <i>Object-oriented Design and Programming</i> and the <i>Fundamentals of Computing</i> exam |
| Institute of Philosophy UJ, spring sem. 2002 | Assistant teacher for the <i>Model Theory</i> course |
| Faculty of Polish Studies UJ, spring sem. 2002 | Assistant teacher for the <i>Ancient Philosophy</i> course |

8 Refereeing Services

Apart from PC memberships listed above, I have refereed for the Dutch Research Council (NWO) KLEIN grants in Domain Science (ENW). I have also been refereeing for Springer's *Trends in Logic* and journals such as *Journal of Artificial Intelligence Research*, *Journal of Symbolic Logic*, *Review of Symbolic Logic*, *ACM Transactions on Computational Logic*, *Studia Logica*, *Indagationes Mathematicae*, *Theoretical Computer Science*, *Logical Methods in Computer Science*, *Journal of Logic and Computation*, *Journal of Logic and Algebraic Programming*, *Journal of Philosophical Logic*, *Mathematical Logic Quarterly*, *Annals of Pure and Applied Logic*, *Journal of Logic, Language and Information*, *Notre Dame Journal of Formal Logic*, or *Bulletin of the Section of Logic*.

Conferences and workshops I have been refereeing for include, e.g., LiCS, IJCAR, AiML, ACM SIGMOD/PODS, STACS, FoSSaCS, CSL, MFCS, OAL, TACL, RAMiCS, LPar, DBPL, DataX, DL, WoLLiC, WoC or TbiLLC.

9 Publication List

My publication list is also available as hypertext at <https://www8.cs.fau.de/litak:pubs>.

The publication list below is divided as follows: book chapters (§ 9.1), papers in journals (§ 9.2), papers in refereed conference and workshop proceedings (§ 9.3—a common mode of publication in theoretical computer science, with venues such as POPL being more prestigious than most journals; marked wherever superseded by a later journal version), others (§ 9.4).

9.1 Book Chapters

- [B1] Jipsen, Peter and **Litak, Tadeusz**. 2020b. „An algebraic glimpse at bunched implications and separation logic“. In: *Hiroakira Ono on Residuated Lattices and Substructural Logics*. Outstanding Contributions to Logic. Accepted, to appear. Springer. URL: <https://arxiv.org/abs/1709.07063>.
- [B2] **Litak, Tadeusz**. 2014b. „Constructive modalities with provability smack“. In: *Leo Esakia on Duality in Modal and Intuitionistic Logics*. Outstanding Contributions to Logic. *Author’s Cut* (full electronic version): <https://arxiv.org/abs/1708.05607>. Springer, pp. 179–208.

9.2 Papers in Journals

- [J1] Holliday, Wesley Halcrow and **Litak, Tadeusz**. 2019a. „Complete additivity and modal incompleteness“. *Review of Symbolic Logic* 12.3. Available on arXiv: <https://arxiv.org/abs/1809.07542> and eScholarship: <https://escholarship.org/uc/item/01p9x1hv>, pp. 487–535. URL: <https://doi.org/10.1017/S1755020317000259>.
- [J2] **Litak, Tadeusz** and Visser, Albert. 2019b. „Lewisian fixed points I: two incomparable constructions“. *CoRR* abs/1905.09450. URL: <http://arxiv.org/abs/1905.09450>.
- [J3] **Litak, Tadeusz**. 2018b. „Infinite populations, choice and determinacy“. *Studia Logica* 106 (5), pp. 969–999. URL: <https://doi.org/10.1007/s11225-017-9730-3>.
- [J4] **Litak, Tadeusz**, Pattinson, Dirk, Sano, Katsuhiko, and Schröder, Lutz. 2018c. „Model theory and proof theory of coalgebraic predicate logic“. *Logical Methods in Computer Science* 14. URL: <https://lmcs.episciences.org/4390>.
- [J5] **Litak, Tadeusz** and Visser, Albert. 2018d. „Lewis meets Brouwer: Constructive strict implication“. *Indagationes Mathematicae* 29. A special issue “L.E.J. Brouwer, fifty years later”, pp. 36–90. URL: <https://arxiv.org/abs/1708.02143>.
- [J6] Milius, Stefan and **Litak, Tadeusz**. 2017b. „Guard your daggers and traces: Properties of guarded (co-)recursion“. *Fundamenta Informaticae* 150, pp. 407–449. URL: <http://arxiv.org/abs/1603.05214>.
- [J7] Schröder, Lutz, Pattinson, Dirk, and **Litak, Tadeusz**. 2017c. „A van Benthem/Rosen theorem for coalgebraic predicate logic“. *Journal of Logic and Computation* 27 (3), pp. 749–773. URL: <https://doi.org/10.1093/logcom/exv043>.
- [J8] **Litak, Tadeusz**, Mikuláš, Szabolcs, and Hidders, Jan. 2016. „Relational lattices: From databases to universal algebra“. *Journal of Logical and Algebraic Methods in Programming* 85 (4). Special issue with selected papers of RAMiCS 2014, pp. 540–573. URL: <https://doi.org/10.1016/j.jlamp.2015.11.008>.
- [J9] ten Cate, Balder, Fontaine, Gaëlle, and **Litak, Tadeusz**. 2010a. „Some modal aspects of XPath“. *Journal of Applied Non-Classical Logics* 20 (3). Accessible copy: <http://www8.cs.fau.de/~litak/papers/jancl20birthday.pdf>, pp. 139–171. URL: <http://dx.doi.org/10.3166/jancl.20.139-171>.
- [J10] ten Cate, Balder, **Litak, Tadeusz**, and Marx, Maarten. 2010b. „Complete axiomatizations for XPath fragments“. *Journal of Applied Logic* 8 (2), pp. 153–172. URL: <http://dx.doi.org/10.1016/j.jal.2009.09.002>.
- [J11] Kowalski, Tomasz and **Litak, Tadeusz**. 2008a. „Completions of GBL-algebras: negative results“. *Algebra Universalis* 58 (4), pp. 373–384. URL: <http://dx.doi.org/10.1007/s00012-008-2056-2>.

- [J12] **Litak, Tadeusz.** 2008b. „Stability of the Blok theorem“. *Algebra Universalis* 58 (4), pp. 385–411. URL: <https://doi.org/10.1007/s00012-008-2062-4>.
- [J13] **Litak, Tadeusz.** 2007c. „The non-reflexive counterpart of Grz“. *Bulletin of the Section of Logic* 36 (3–4), pp. 195–208. URL: http://www.filozof.uni.lodz.pl/bulletin/pdf/36_34_10.pdf.
- [J14] **Litak, Tadeusz** and Wolter, Frank. 2005d. „All finitely axiomatizable tense logics of linear time flows are coNP-complete“. *Studia Logica* 81 (2), pp. 153–165. URL: <http://dx.doi.org/10.1007/s11225-005-3702-8>.
- [J15] **Litak, Tadeusz.** 2004a. „Modal incompleteness revisited“. *Studia Logica* 76 (3), pp. 329–342. URL: <https://doi.org/10.1023/B:STUD.0000032102.67838.f2>.
- [J16] **Litak, Tadeusz.** 2004b. „Some notes on the superintuitionistic logic of chequered subsets of R^∞ “. *Bulletin of the Section of Logic* 33 (2), pp. 81–86. URL: <https://arxiv.org/abs/1808.06393>.
- [J17] **Litak, Tadeusz.** 2002. „A continuum of incomplete intermediate logics“. *Reports on Mathematical Logic* 36. Corrected in 2018, <https://arxiv.org/abs/1808.06284>, pp. 131–141.

9.3 Papers in Refereed Conference and Workshop Proceedings

Some of the papers in the list below have been superseded by journal versions in § 9.2; this is annotated wherever applies.

- [C1] Hausmann, Daniel, **Litak, Tadeusz**, Rauch, Christoph, and Zinner, Matthias. 2020a. „Cheap ctl compassion in nusmv“. In: *21st International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2020)*. Vol. 11990. LNCS. Artifact evaluation: Available and Functional. Springer, pp. 248–269. URL: https://doi.org/10.1007/978-3-030-39322-9_12.
- [C2] Sammler, Michael, Garg, Deepak, Dreyer, Derek, and **Litak, Tadeusz**. 2020c. „The high-level benefits of low-level sandboxing“. In: *47th ACM SIGPLAN Symposium on Principles of Programming Languages*. Artifact evaluation: Reusable. URL: <https://doi.org/10.1145/3371100>.
- [C3] Holliday, Wesley Halcrow and **Litak, Tadeusz**. 2018a. „One modal logic to rule them all?“ In: *Advances in Modal Logic*. Ed. by G. Bezhanishvili, G. D’Agostino, G. Metcalfe, and T. Studer. Vol. 12. Extended technical report available at <https://escholarship.org/uc/item/07v9360j>. College Publications, pp. 367–386.
- [C4] **Litak, Tadeusz**, Polzer, Miriam, and Rabenstein, Ulrich. 2017a. „Negative translations and normal modality“. In: *2nd International Conference on Formal Structures for Computation and Deduction (FSCD 2017)*. Vol. 84. Leibniz International Proc. in Informatics (LIPIcs), 27:1–27:18. URL: <http://drops.dagstuhl.de/opus/volltexte/2017/7741>.
- [C5] **Litak, Tadeusz**, Mikulás, Szabolcs, and Hidders, Jan. 2014c. „Relational lattices“. In: *Relational and Algebraic Methods in Computer Science 2014 (RAMiCS)*. Vol. 8428. LNCS. Superseded by [J8]. URL: http://dx.doi.org/10.1007/978-3-319-06251-8_20.
- [C6] **Litak, Tadeusz**, Pattinson, Dirk, and Sano, Katsuhiko. 2013a. „Coalgebraic predicate logic: Equipollence results and proof theory“. In: *Logic, Language, and Computation. Revised Selected Papers of Tbilisi 2011*. Vol. 7758. LNCS. Superseded by [J4]. URL: http://dx.doi.org/10.1007/978-3-642-36976-6_16.
- [C7] Milius, Stefan and **Litak, Tadeusz**. 2013b. „Guard your daggers and traces: On the equational properties of guarded (co-)recursion“. In: *Proc. 9th Workshop on Fixed Points in Computer Science (FiCS)*. Vol. 126. EPTCS. Superseded by [J6]. URL: <http://dx.doi.org/10.4204/EPTCS.126>.
- [C8] **Litak, Tadeusz**, Pattinson, Dirk, Sano, Katsuhiko, and Schröder, Lutz. 2012. „Coalgebraic predicate logic“. In: *Proc. 39th International Colloquium on Automata, Languages and Programming (ICALP) 2012, Part II*. Vol. 7392. LNCS. Superseded by [J4].
- [C9] Gabbay, Murdoch, **Litak, Tadeusz**, and Petrisan, Daniela. 2011. „Stone duality for nominal boolean algebras with ‘new’“. In: *Algebra and Coalgebra in Computer Science*. Vol. 6859. LNCS, pp. 192–207.

- [C10] **Litak, Tadeusz** and Helmer, Sven. 2009. „On the termination problem for declarative XML message processing“. In: *Database and Expert Systems Applications*. Vol. 5690. LNCS, pp. 83–97. URL: http://dx.doi.org/10.1007/978-3-642-03573-9_7.
- [C11] ten Cate, Balder and **Litak, Tadeusz**. 2007b. „Topological perspective on the hybrid proof rules“. In: *Proc. International Workshop on Hybrid Logic HyLo 2006*. Vol. 174. ENTCS, pp. 79–94. URL: <http://dx.doi.org/10.1016/j.entcs.2006.11.027>.
- [C12] **Litak, Tadeusz**. 2006a. „Algebraization of hybrid logic with binders“. In: *Relations and Kleene Algebra in Computer Science*. Vol. 4136. LNCS, pp. 281–295. URL: http://dx.doi.org/10.1007/11828563_19.
- [C13] **Litak, Tadeusz**. 2006b. „Isomorphism via translation“. In: *Advances in Modal Logic 6*, pp. 333–351. URL: <http://www.aiml.net/volumes/volume6/Litak.ps>.
- [C14] **Litak, Tadeusz**. 2005c. „On notions of completeness weaker than Kripke completeness“. In: *Advances in Modal Logic 5 (2004)*, pp. 149–169. URL: <http://www.aiml.net/volumes/volume5/Litak.ps>.

9.4 Technical Reports

- [R1] ten Cate, Balder and **Litak, Tadeusz**. 2007. *The importance of being discrete*. Tech. rep. PP–2007–39. Institute for Logic, Language and Computation (ILLC), University of Amsterdam. URL: <http://www.illc.uva.nl/Research/Reports/PP-2007-39.text.pdf>.
- [R2] **Litak, Tadeusz** and Kowalski, Tomasz. 2006. *Completions of GBL-algebras and acyclic modal algebras: negative results*. Tech. rep. Research Institute for Mathematical Sciences (RIMS), Kyoto University, pp. 51–61. URL: <http://www.kurims.kyoto-u.ac.jp/~kyodo/kokyuroku/contents/pdf/1525-5.pdf>.
- [R3] **Litak, Tadeusz**. 2005. *Mathematical foundations for self-referential sentences*. Tech. rep. IS–RR–2005–005–001. JAIST. URL: <https://www8.cs.fau.de/staff/litak/papers/minor.pdf>.

10 Other Talks and Tutorials at International Conferences and Workshops

The list includes only events with some form of quality control (pre-selection of submissions by the committee or a closed, invitation-only event) which have **not** been mentioned previously, e.g., in the list of invited talks (§ 6) or in the list of conference/workshop publications in § 9.3 (in the latter case, due to not having refereed proceedings in book form).

- Workshop on Nonclassical Logics and Judgement Aggregation, November 2019, Prague (*Infinite Populations, Choice and Determinacy*)
- Logic Colloquium, ASL European Summer Meeting, August 2019, Prague (*Algebras for Preservativity in a special session on Reflection Principles and Modal Logic*)
- Invited contribution to a symposium *Proof and translation: Glivenko’s theorem 90 years after* (organized by Sara Negri and Peter Schuster) held as a part of *XVIIth Congress on Logic, Methodology, and Philosophy of Science and Technology (CLMPST)*, August 2019, Prague (*Modal Negative Translations as a Case Study in The Big Programme*)
- Two presentations at Topology, Algebra, and Categories in Logic 2017 (TACL 2017), June 2017, Prague (*Algebraic generalizations of completeness and canonicity* and *The periodic sequence property*)

- Algebra and Coalgebra meet Proof Theory (ALCOP VII), April 2016, Vienna (*Double negation and modality*)
- Peripatetic Seminar on Sheaves and Logic (PSSL 99), March 2016, TU Braunschweig (*Guarding Conway theories and traces*, a short presentation on joint results with S. Milius)
- Trends in Logic XV: Logics for Social Behaviour, June 2015, TU Delft (*Whence Cometh Incompleteness?*, a short presentation on joint results with W. H. Holliday). Full version of this talk delivered at the Logic Colloquium of the Group in Logic and the Methodology of Science, UC Berkeley in April 2015, see §§ 4, 11
- *Logics for Social Behaviour*, Lorentz Center workshop, Leiden, November 2014, a tutorial on algebraic logic
- Advances in Modal Logic (AiML'14), Groningen, August 2014 (*Constructive fixpoints and the Loeb axiom*, a short presentation on joint results with A. Visser)
- Workshop on Control Operators and their Semantics (COS2013) Eindhoven, June 2013 (*The modalized Heyting calculus: modality-guarded continuations*)
- Algebra and Coalgebra meet Proof Theory (ALCOP), Utrecht, April 2013 (*Tomorrow belongs to deviant intuitionistic modalities*)
- Dagstuhl Seminar 12411 *Coalgebraic Logics*, October 2012 (presentation and moderation of a special discussion session on *Coalgebraic predicate formalisms*)
- Advances in Modal Logic (AiML'12), Copenhagen, August 2012 (*Löb-like modalities in type theory and category theory*, a short presentation)
- Syntax and Semantics of Low-Level Languages (LOLA'12), LiCS affiliated workshop, June 2012 (*Extending Nakano-style type systems and logics*)
- Pisa Summer Workshop in Proof Theory, June 2012 (*Extended Curry-Howard correspondence for constructive Löb logics*)
- TYPES 2011: 8th Workshop “Types for Proofs and Programs”, Bergen, September 2011 (*Extended Curry-Howard Correspondence*)
- Domains X workshop, Swansea, September 2011 (*Constructive Löb logic: natural deduction, fixed points and proof terms*)
- ALCOP 2011: The Swiss Mathematical Society Spring Meeting on Algebra & Coalgebra meet Proof Theory (*Coalgebraic Logic: a 40-year-old Invention*, joint work with Dirk Pattinson and Katsuhiko Sano), Bern, April 2011
- 4th International Conference on Topology, Algebra and Categories in Logic (TACL), Amsterdam, July 2009 (*Relational lattices: an introduction*, joint work with S. Mikuláš and J. Hidders). Another version of this talk delivered at ALCOP 2010: The Dutch-British workshop on Algebra & Coalgebra meet Proof Theory, IC London
- MLG (Mathematical Logic Group) meetings in Japan: 36th (Kinosaki, 2002), 37th (Shizuoka, 2003), 38th (Gamagori, 2004), 39th (Gamagori, 2005), 40th (Yufuin, 2006)
- Trends in Logic IV, Toruń, September 2006 (*Minimal extensions and modal consequence*)

- Algebraic and Topological Methods in Non-Classical Logics II (TANCL II), Barcelona, June 2005 (*On strong completeness*)
- UNILOG 2005, Switzerland, Montreux, April 2005 (*The Blok incompleteness theorem: how to generalize it and why*)
- International Conference on Algebraic and Topological Methods in Non-classical Logics (TANCL), Tbilisi, July 2003 (*Subdirect irreducibility, complete \mathcal{BAOS} and incompleteness*)
- XIIth International Congress of Logic, Methodology and Philosophy of Science, Oviedo 2003 (*Tense logics which are maximal consistent, decidable and as incomplete as you may imagine*)
- Logic Colloquium, ASL European Summer Meeting, Münster 2002 (*Modal incompleteness revisited*). Abstract published in *Bulletin of Symbolic Logic* vol. 9, No. 1, 2003
- 4th International Tbilisi Symposium on Logic, Language and Computation, Borjomi 2001 (*A continuum of incomplete intermediate logics*)

Also an invited participant of Lorentz Center workshop *Unified Correspondence*, February 2016 and Dagstuhl Seminar 09502 *Coalgebraic Logics*, December 2009, both without giving a talk.

11 Invited Seminar Speaker

Does not include universities I was affiliated with at the time of presentation, longer visits listed above in § 4 and larger events listed above in §§ 6, 9.3, and in 10.

- Utrecht University (TULIPS—The Utrecht Logic in Progress Series, September 2019). Also an online talk joint with A|C Seminar (ILLC, UvA) and FAU Informatik 8 Oberseminar in May 2020
- University of Freiburg (Oberseminar Mathematische Logik, December 2017)
- UC Berkeley (Logic Colloquium of the Group in Logic and the Methodology of Science, April 2015)
- TU Delft (Applied Logic Seminar, September 2014)
- Chapman University (MathCS Seminar, September 2013)
- FAU Erlangen-Nürnberg (Oberseminar Theoretische Informatik, August 2012; later numerous presentations as an employee)
- Imperial College (LogIC Seminar, November 2008 and June 2012)
- University of Birmingham (Theoretical Computer Science Seminar, May 2010)
- University of Sheffield (Seminar of the Verification and Testing Group, June 2009)
- University of Leicester (Computer Science Internal Seminar, March 2008)
- CVS-AIST, Osaka (Computer Language Colloquium, January 2007)
- National Institute of Informatics, Tokyo (NII Logic Seminar, December 2006)
- University of Amsterdam (Logic Tea, September 2006)