

CURRICULUM VITAE

Includes the list of publications

Name: Tadeusz Michał Litak

Daily first name: Tadeusz

Title: PhD, Information Science

Address (university): Ono Laboratory, School of Information Science
Japan Advanced Institute of Science and Technology (JAIST)
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Date of birth: April 5, 1978

Place of birth: Kraków, Poland

Nationality: Polish

RESEARCH INTERESTS

Algebraic, topological and Kripke semantics for modal logic: completeness, definability, persistence. Hybrid logic. Superintuitionistic logics. Algebraic theory of completions.

EMPLOYMENT HISTORY

- October 1, 2005–March 31, 2007: a postdoctoral researcher (kenkyuin) at the Ono Laboratory, JAIST supported by the Jinzai Yosei (Fostering Talents) fund of Japan Science and Technology Agency (JST). First contract until March 2006, then renewed for one year.
- May 1, 2007–April 31, 2008: a postdoctoral researcher at the ILPS (Information and Language Processing Systems) group at the ISLA (Intelligent Systems Lab Amsterdam), Informatics Institute, UvA (University of Amsterdam) supported by the Rubicon program of the NWO (Netherlands Organization for Scientific Research).

EDUCATION

2005: Ph.D. *cum laude* in Information Science, JAIST

Advisor: Professor Hiroakira Ono

Thesis: **An Algebraic Approach to Incompleteness in Modal Logic**

2001: Master of Philosophy, Jagiellonian University (Kraków)

Advisor: Professor Andrzej Wroński

Thesis (in Polish): **Incomplete Intermediate Logics**

ACADEMIC AWARDS AND GRANTS

- Rubicon grant of the Dutch NWO foundation, May 2007–April 2008
- Postdoctoral support of Jinzai Yosei (Fostering Talents) fund of Japan Science and Technology Agency (JST), 2005–2007

- Monbukagakusho Scholarship, Japanese Ministry of Education, 2002-2005
- JAIST Foundation Travel Grant, JAIST Foundation 2004, 2003
- JAMS Travel Grant, Japan Association for Mathematical Sciences, 2003
- MEN (Ministry of Education) Scholarship, Polish Ministry of Education, 2000-2001

REFEREED PUBLICATIONS

(reverse chronological order)

- *Stability of The Blok Theorem*, to appear in **Algebra Universalis**.
- (with Tomasz Kowalski) *Completions of GBL algebras: negative results*, to appear in **Algebra Universalis**.
- *Algebraization of hybrid logic with binders*. Proceedings of 9th International Conference on Relational Methods in Computer Science, **Lecture Notes in Computer Science 4136**, pp. 281–295, 2006.
- *Isomorphism via translation*. **Advances in Modal Logic 2006**, College Publications, eds. I. Hodkinson and Y. Venema, pp. 337–355.
- (forthcoming, with Balder ten Cate) *Topological perspective on the hybrid proof rules*. Proceedings of the HyLo 2006 workshop, **Electronic Notes in Theoretical Computer Science**, Elsevier.
- (with Frank Wolter) *All finitely axiomatizable tense logics of linear time flows are coNP-complete*, **Studia Logica**, vol. 81, No. 2, pp. 153–165, November 2005
- *On notions of completeness weaker than Kripke completeness*, **Advances in Modal Logic 5**, King’s College Publications, eds. R. Schmidt, I. Pratt-Hartmann, M. Reynolds and H. Wansing, pp. 149–169, 2005
- *Some remarks on superintuitionistic logic of chequered subsets*, **Bulletin of the Section of Logic**, vol. 33, No. 2, pp. 81–86, July 2004
- *Modal incompleteness revisited*, **Studia Logica**, vol. 76, No. 3, pp. 329–342, April 2004
- *A continuum of incomplete intermediate logics*, **Reports on Mathematical Logic**, vol. 36, pp. 131–141, 2002

Copies of my papers can be obtained at <http://www.jaist.ac.jp/~litak/papers>

CHOSEN REFEREED TALKS AT INTERNATIONAL CONFERENCES

(reverse chronological order)

- Advances in Modal Logic 2006, Australia, Noosa, Sunshine Coast, September 25–28 (*On the Gargov-Goranko translation*)
- Trends in Logic IV, Poland, Toruń, September 1–September 4, 2006 (*Minimal extensions and modal consequence*)

- The 9th International Conference on Relational Methods in Computer Science (RelMiCS06), UK, Manchester, August 29–September 2, 2006 (*Algebraization of hybrid logic with binders*)
- Algebraic and Topological Methods in Non-Classical Logics II, Spain, Barcelona, June 15–18, 2005 (*On strong completeness*)
- UNILOG 2005, Switzerland, Montreux, March 31–April 03, 2005 (*Blok incompleteness theorem: how to generalize it and why*)
- International Conference on Advances in Modal Logic V, UK, Manchester, September 9–11, 2004 (*On notions of completeness weaker than Kripke completeness*)
- International Conference on Algebraic and Topological Methods in Non-classical Logics, Georgia, Tbilisi 2003 (*Subdirect irreducibility, complete BAOs and incompleteness*)
- XIIth International Congress of Logic, Methodology and Philosophy of Science, Spain, Oviedo 2003 (*Tense logics which are maximal consistent, decidable and as incomplete as you may imagine*)
- Logic Colloquium, ASL European Summer Meeting, Germany, Münster 2002 (*Modal incompleteness revisited*)
- 4th International Tbilisi Symposium on Logic, Language and Computation, Georgia, Borjomi 2001 (*A continuum of incomplete intermediate logics*)

TECHNICAL REPORTS

- JAIST Research Report, *Mathematical foundations for self-referential sentences*, IS-RR-2005-005-001.
- *Completions of GBL algebras and acyclic modal algebras: negative results*. Joint work with Tomasz Kowalski. Publications of the Research Institute for Mathematical Sciences (RIMS), Kyoto University, November 2006.
- Publications in the proceedings of the 36th (Kinosaki, 2002), 37th (Shizuoka, 2003), 38th (Gamagori, 2004), 39th (Gamagori, 2005), 40th (Yufuin, 2006) MLG meetings.

INVITED TALKS IN JAPAN, 2005–2007

(reverse chronological order)

- CVS-AIST Computer Language Colloquium (CLC), CVS-AIST, Osaka, January 11, 2007. By invitation of Koki Nishizawa (AIST).
- NII Logic Seminar, National Institute of Informatics, Tokyo, December 12, 2006. By invitation of Kazushige Terui (NII).

- 17th ALGI Research Meeting, Nara Women's University, October 12–13, 2006. By invitation of Toshinori Takai and Hitoshi Furusawa (Kagoshima University).
- Workshop *Mathematical logic and its applications*, Research Institute for Mathematical Sciences (RIMS), Kyoto University, 31 May–2 June 2006. By invitation of Toshiyasu Arai (Kobe University).
- Workshop *Modern Plural Aspects of Modal Logics: from a semantical point of view*, 29th PaSTA Research Meeting, Graduate School of Letters, Kyoto University, October 15, 2005. By invitation of Katsuhiko Sano (Kyoto University).

PROFESSIONAL ACTIVITIES

A referee for

- *ACM Transactions on Computational Logic*
- *Studia Logica*
- *Advances in Modal Logic*
- International Conference on Order, Algebra and Logic, Nashville 2007
- Proceedings of 9 Asian Logic Conference, Novosibirsk 2005
- The Sixth International Tbilisi Symposium on Language, Logic and Computation, Batumi 2005 and proceedings of this conference

TEACHING EXPERIENCE

- Assistance and tutoring for graduate students at the Ono Laboratory, JAIST
- Organizer of several student seminars at JAIST. In charge of the Modal Logic seminar
- Assistant teacher at the Model Theory course, Department of Logic UJ (spring semester 2002)
- Assistant teacher at the Ancient Philosophy course, Institute of Polish Philology UJ (spring semester 2002)

LANGUAGES (other than English and native)

- Japanese (Japanese Language Proficiency Test, second level — 2 kyu, 2005)
- Russian (passive, reading: intermediate)