

LIST OF PRINCIPAL PUBLICATIONS

1. G. Georgiev, T. Tinchev, Second-order logic on equivalence relations. *Journal of Applied Non-Classical Logics*, vol. 18, No 2-3/2008, 229–246.
2. Ph. Balbiani, T. Tinchev, Boolean Logics with Relations. In: R. Berghammer, B. Moeller, G. Struth (Eds.), *Relations and Kleene Algebra in Computer Science, 10th International Conference on relational Methods in Computer Science, and 5th International Conference on Applications of Kleene Algebra, RelMiCS/AKA 2008, Frauenwoerth, Germany, April 7-11, 2008. Proceedings. Lecture Notes in Computer Science* vol. 4988, Springer 2008, 4-21.
3. S. Koeva, T. Tinchev, M. Yanchev, Decidability of generalized majority logic. In: *Proceedings of 6th Panhellenic Logic Symposium, PLS'2007, 5-7 July, Volos, Greece.*
4. Ph. Balbiani, T. Tinchev, D. Vakarelov, Modal Logics for Region-based Theories of Space. *Fundamenta Informaticae*, vol. 81, No.1-3 (2007), 29-82.
5. Ph. Balbiani, T. Tinchev, Line-based affine reasoning in Euclidean plane. *Journal of Applied Logic*, vol. 5, No. 3 (2007), 421-434.
6. Ph. Balbiani, T. Tinchev, D. Vakarelov, Dynamic logics of the region-based theory of discrete spaces. *Journal of Applied Non-Classical Logics*, vol. 17, No. 1 (2007), 39-61.
7. G. Georgiev, T. Tinchev, Monadic second order logic on equivalence relations. (Abstract) *The Bulletin of Symbolic Logic*, vol. 13 (2007), p. 272.
8. Ph. Balbiani, T. Tinchev, Definability over the Class of All Partitions. *Journal of Logic and Computation*, 2006, Vol. 16, 5, pp. 541-557.
9. Ph. Balbiani, Ts. Dunchev, T. Tinchev, Modal Definability over a Class of Structures with Two Equivalence Relations. In: *International Conference Pioneers of Bulgarian Mathematics, Sofia, July 8-10, 2006, Book of Abstracts*, p. 16.

10. D. Georgiev, T. Tinchev, D. Vakarelov, SQEMA — an Algorithm for Computing First-Order Correspondences in Modal Logic: a Computer Realization. In: International Conference Pioneers of Bulgarian Mathematics, Sofia, July 8-10, 2006, Book of Abstracts, pp. 45-46.
11. G. Georgiev, T. Tinchev, Monadic Second Order Logic on Equivalence Relations. In: International Conference Pioneers of Bulgarian Mathematics, Sofia, July 8-10, 2006, Book of Abstracts, p. 46.
12. T. Tinchev, M. Yanchev, Modal Operators for Rational Grading. In: International Conference Pioneers of Bulgarian Mathematics, Sofia, July 8-10, 2006, Book of Abstracts, pp. 123-124.
13. T. Tinchev, Logics with Counting Modal Operators. In: International Conference Pioneers of Bulgarian Mathematics, Sofia, July 8-10, 2006, Book of Abstracts, pp. 124-125.
14. T. Tinchev, M. Yanchev. Modal Operators for Rational Grading. *Annuaire de l'Universite de Sofia "St. Kliment Ohridski"* (in print).
15. G. Georgiev, T. Tinchev, Monadic Second Order logic on equivalence relations. *Annuaire de l'Universite de Sofia "St. Kliment Ohridski"* (in print).
16. Ph. Balbiani, T. Tinchev, Decidability and Complexity of Definability within the Class of All Partitions. In: Proceedings of the 5th Panhellenic Logic Symposium, July 25-28, 2005, Athens, Greece, p. 26-33.
17. Ph. Balbiani, T. Tinchev, Euclidean Geometry with Lines Alone (abstract). Proceedings of Logic Colloquium 2005, July 28 - August 3, 2005, Athens, Greece, p. 47.
18. Ph. Balbiani, T. Tinchev, D. Vakarelov, Dynamic logics of region-based theory of discrete spaces. To appear in *Journal of Applied Non-Classical Logics*.
19. S. Koeva, S. Mihov, T. Tinchev, Bulgarian Wordnet - Structure and Validation. *Romanian J. Of Inf. Sci. And Technology*, vol. 7, No. 1-2, 2004, 61-78.

20. Ph. Balbiani, T. Tinchev, Line-based affine reasoning in Euclidean plane. In: J. J. Alferes and J. Leite (eds.), Logics in Artificial Intelligence. Ninth European Conference, JELIA 2004, Lisbon, Portugal, September 2004, Proceedings. Vol. 3229 of Lecture Notes in Artificial Intelligence, 474–486.
21. T. Tinchev, A Note on Intersection of Modalities. In: *Annuaire de l'Universite de Sofia "St. Kliment Ohridski"*, vol. **87**, livre 1, 1999.
22. Ph. Balbiani, L. Fariñas del Cerro, T. Tinchev, D. Vakarelov, Modal Logics for Incidence Geometries. *J. Logic Computat.*, vol. 7, No 1, 1997, 59–78.
23. Ph. Balbiani, L. Fariñas del Cerro, T. Tinchev, D. Vakarelov, Geometrical Structures and Modal Logic, in: the Proceedings of FAPR'96 "International Conference on Formal and Applied Practical Reasoning", June 3-7, 1996, Bonn, German.
24. T. Tinchev, Intersection and Graded Modalities (abstract). *The Bulletin of Symbolic Logic*, vol. 1, Number 2, 1995, 263–264.
25. S. Passy & T. Tinchev, An Essay in Combinatory Dynamic Logic. *Information and Computation*, vol. **93**, No. 2, 1991, 263–332.
26. G. Gargov, S. Passy & T. Tinchev, Modal Environment for Boolean Speculations. In: *Mathematical Logic and its Applications* (ed. D. Skordev), Proc. of Gödel'86 Summer School & Conf., Druzhba; Plenum Press, New York, 1988, 253–263.
27. T. Tinchev & D. Vakarelov, Propositional Dynamic Logic with Recursive Programs. In: *Math. Problems in Computation Theory*, Banach Center Publications, vol. **21**, 1988, PWN, Warsaw, 419–426.
28. T. Tinchev & D. Vakarelov, Propositional Dynamic Logic with Counters and Stacks. In: *Springer LNCS*, vol. **208**, 364–374.
29. Extensions of Propositional Dynamic Logic, PhD Thesis, Sofia University, 1986 (in Bulgarian).
30. S. Passy & T. Tinchev, PDL with Data Constants. *Information Processing Letters*, **20**, 1985, 35–41.

31. S. Passy & T. Tinchev, Quantifiers in PDL: Completeness, Definability, Incompleteness. In: Proc. of the Conf. FCT'85, Springer LNCS **199**, 1985, 512–519.
32. T. Tinchev & D. Vakarelov, PDL with counters. In: Math. theory of programing, **1085**, Novosibirsk, 50–57 (in Russian).
33. T. Tinchev & D. Vakarelov, Propositional dynamic logic with least fixed points which are programs. In: Proc. of Summer School on Mathematical Logic and its Applications, Primorsko, September 22–28, 1983, 64–67.