

LIST OF PUBLICATIONS OF HAJNAL ANDRÉKA

Alfréd Rényi Institute of Mathematics
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1 Books

- [3] *Decision problems for equational theories of relation algebras.* **Memoirs of Amer. Math. Soc.** Vol. 126, No. 604, American Mathematical Society, Providence, Rhode Island, 1997. xiv+126pp. Andréka, H., Givant, S. and Németi, I.
- [2] *Cylindric Set Algebras.* **Lecture Notes in Mathematics** Vol 883, Springer-Verlag, Berlin, 1981. vi + 323 pp. Henkin, L., Monk, J. D., Tarski, A., Andréka, H. and Németi, I.
- [1] *Generalization of the concept of variety and quasi-variety to partial algebras through category theory.* **Dissertationes Mathematicae (Rozprawy Math.)** No. 204. PWN - Polish Scientific Publishers, Warsaw, 1983. 51 pp. Andréka, H. and Németi, I.

2 Book edited

- [2] *Cylindric-like algebras and algebraic logic.* **Bolyai Society Mathematical Studies** Vol. 22, Springer Verlag, Berlin, 2013. 478 pp. Editors: Andréka, H., Ferenczi, M. and Németi, I.
- [1] *Algebraic Logic.* **Colloq. Math. Soc. J. Bolyai** Vol. 54, North-Holland, Amsterdam, 1991. vi + 746 pp. Editors: Andréka, H., Monk, J. D. and Németi, I.

3 Journal Articles, refereed

- [75] *Ultraproducts of continuous posets.* **Algebra Universalis** 76,2 (2016), 231-235. Andr eka, H., Gyenis, Z. and N emeti, I.
- [74] *Faster than light motion does not imply time travel.* **Classical and Quantum Gravity** 21 (2014), 095005 (11pp). Andr eka, H., Madar asz, J. X., N emeti, I., Stannett, M. and Sz ekely, G.
- [73] *A note on ‘Einstein’s special relativity beyond the speed of light by James M. Hill and Barry J. Cox’.* **Proc. R. Soc. A.** 469 (2013), 2154. Andr eka, H., Madar asz, J. X., N emeti, I. and Sz ekely, G.
- [72] *A non representable infinite dimensional quasi-polyadic equality algebra with a representable cylindric reduct.* **Studia Sci. Math. Hungar.** 50,1 (2013), 1-16. Andr eka, H., N emeti, I. and Sayed Ahmed, T.
- [71] *Functionally dense relation algebras.* **Algebra Universalis** 68,1-2 (2012), 151-191. Andr eka, H. and Givant, S.
- [70] *A logic road from special relativity to general relativity.* **Synthese** 186,3 (2012), 633-649. Andr eka, H., Madar asz, J. X., N emeti, I. and Sz ekely, G.
- [69] *The equational theory of Kleene lattices.* **Theoretical Computer Science** 412 (2011), 7099-7108. Andr eka, H., Mikul as, Sz. and N emeti, I.
- [68] *Axiomatizability of positive algebras of binary relations.* **Algebra Universalis** 66,1 (2011), 7-34. Andr eka, H. and Mikul as, Sz.
- [67] *On logical analysis of relativity theories.* **Hungarian Philosophical Review** 54,4 (2010), 204-222. Andr eka, H., Madar asz, J. X., N emeti, I. and Sz ekely, G.
- [66] *Epimorphisms in cylindric algebras and definability in finite variable logic.* **Algebra Universalis** 61,3-4 (2009), 261-282. Andr eka, H., Comer, S. C., Madar asz, J. X., N emeti, I. and Sayed-Ahmed, T.
- [65] *General relativistic hypercomputing and foundation of mathematics.* **Natural Computing** 8,3 (2009), 499-516. Andr eka, H., N emeti, I. and N emeti, P.
- [64] *A twist in the geometry of rotating black holes: seeking the cause of acausality.* **General Relativity and Gravitation** 40,9 (2008), 1809-1823. Andr eka, H., N emeti, I. and W uthrich, C.

- [63] *Axiomatizing relativistic dynamics without conservation postulates.* **Studia Logica** 89,2 (2008), 163-186. Andr eka, H., Madar asz, J. X., N emeti, I. and Sz ekely, G.
- [62] *Omitting types for finite variable fragments and complete representations of algebras.* **Journal of Symbolic Logic** 73,1 (2008), 65-89. Andr eka, H., N emeti, I. and Sayed-Ahmed, T.
- [61] *Mutual definability does not imply definitional equivalence, a simple example.* **Mathematical Logic Quarterly** 51,6 (2005), 591-597. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [60] *Algebras of relations of various ranks, some current trends and applications.* **Journal of Relational Methods in Computer Science** 1 (2004), 27-49. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [59] *Groups and algebras of relations.* **Bulletin of Symbolic Logic** 8,1 (2002), 38-64. Andr eka, H. and Givant, S. R.
- [58] *Operators and laws for combining preferential relations.* **Journal of Logic and Computation** 12,1 (2002), 13-53. Andr eka, H., Ryan, M. and Schobbens, P-Y.
- [57] *A finite axiomatization of locally square cylindric-relativized set algebras.* **Studia Sci. Math. Hungar.** 38 (2001), 1-11. Andr eka, H.
- [56] *Finite algebras of relations are representable on finite sets.* **Journal of Symbolic Logic** 64,1(1999), 243-267. Andr eka, H., Hodkinson, I. and N emeti, I.
- [55] *Modal languages and bounded fragments of predicate logic.* **Journal of Philosophical Logic** 27 (1998), 217-274. Andr eka, H., van Benthem, J. and N emeti, I.
- [54] *Notions of density that imply representability in algebraic logic.* **Annals of Pure and Applied Logic** 91 (1998), 93-190. Andr eka, H., Givant, S., Mikul as, Sz., N emeti, I. and Simon, A.
- [53] *Relativised quantification: some canonical varieties of sequence-set algebras.* **Journal of Symbolic Logic** 63,1 (1998), 163-184. Andr eka, H., Goldblatt, R. and N emeti, I.
- [52] *Complexity of equations valid in algebras of relations, Parts I-II.* **Annals of Pure and Applied Logic** 89 (1997), 149-229. Andr eka, H.

- [51] *Persistent properties and an application to algebras of logic.* **Algebra Universalis** 38 (1997), 141-149. Andr eka, H., Givant, S., N emeti, I. and Simon, A.
- [50] *Axiomatization of identity-free equations valid in relation algebras.* **Algebra Universalis** 35 (1996), 256-264. Andr eka, H. and N emeti, I.
- [49] *The equational theory of union-free algebras of relations.* **Algebra Universalis** 33,4 (1995), 516-532. Andr eka, H. and Bredikhin, D.
- [48] *Back and forth between modal logic and classical logic.* **Journal of the IGPL** 3,5 (1995), 685-720. Andr eka, H., van Benthem, J. and N emeti, I.
- [47] *Expressibility of properties of relations.* **Journal of Symbolic Logic** 60,3 (1995), 970-991. Andr eka, H., Duentsch, I. and N emeti, I.
- [46] *Perfect extensions and derived algebras.* **Journal of Symbolic Logic** 60,3 (1995), 775-796. Andr eka, H., Givant, S. and N emeti, I.
- [45] *Binary relations and permutation groups.* **Mathematical Logic Quarterly** 41(1995), 197-216. Andr eka, H., D untsch, I. and N emeti, I.
- [44] *Representations for small relation algebras.* **Notre Dame Journal of Formal Logic** 35,4 (1994), 550-562. Andr eka, H. and Maddux, R. D.
- [43] *Weakly representable but not representable relation algebras.* **Algebra Universalis** 32 (1994), 31-43. Andr eka, H.
- [42] *Lambek Calculus and its relational semantics: Completeness and incompleteness.* **Journal of Logic, Language and Information** 3 (1994), 1-37. Andr eka, H. and Mikul as, Sz.
- [41] *Connections between axioms of set theory and basic theorems of universal algebra.* **Journal of Symbolic Logic** 59,3 (1994), 912-922. Andr eka, H., Kurucz,  . and N emeti, I.
- [40] *The lattice of varieties of representable relation algebras.* **Journal of Symbolic Logic** 59,2 (1994), 631-661. Andr eka, H., Givant, S. and N emeti, I.
- [39] *A nonpermutational integral relation algebra.* **Michigan Math. J.** 39 (1992), 371-384. Andr eka, H., D untsch, I. and N emeti, I.
- [38] *Splitting in relation algebras.* **Proceedings of Amer. Math. Soc.** 111,4 (1991), 1085-1093. Andr eka, H., Maddux, R. and N emeti, I.

- [37] *Representations of distributive lattice-ordered semigroups with binary relations.* **Algebra Universalis** 28 (1991), 12-25. Andr eka, H.
- [36] *One variable is not enough for defining relation algebras but two are.* **Algebra Universalis** 28 (1991), 274-279. Andr eka, H.
- [35] *Free algebras in discriminator varieties.* **Algebra Universalis** 28 (1991), 401-447. Andr eka, H., J onsson, B. and N emeti, I.
- [34] *On the strength of temporal proofs.* **Theoretical Computer Science** 80 (1991), 125-151. Shorter version appeared in Lecture Notes in Computer Science Vol 379, 1989. Andr eka, H., N emeti, I. and Sain, I.
- [33] *Weak cylindric set algebras and weak subdirect indecomposability.* **Journal of Symbolic Logic** 55,2 (1990), 577-588. Andr eka, H., N emeti, I. and Thompson, R. J.
- [32] *A Stone-type representation theorem for algebras of relations of higher rank.* **Trans. Amer. Math. Soc.** 309,2 (1988), 671-682. Andr eka, H. and Thompson, R. J.
- [31] *A system of logic for partial functions under existence-dependent Kleene equality.* **Journal of Symbolic Logic** 53 (1988), 834-839. Andr eka, H., Craig, W. and N emeti, I.
- [30] *On taking subalgebras of relativized relation algebras.* **Algebra Universalis** 25 (1988), 96-100. Andr eka, H.
- [29] *Boolean reducts of relation and cylindric algebras and the cube problem.* **Proc. Amer. Math. Soc.** 100,1 (1987), 148-153. Andr eka, H.
- [28] *A unifying theorem for algebraic semantics and dynamic logics.* **Information and Computation** 72,1 (1987), 31-45. Andr eka, H., Guessarian, I. and N emeti, I.
- [27] *On the number of generators of cylindric algebras.* **Journal of Symbolic Logic** 50,4 (1985), 865-873. Andr eka, H. and N emeti, I.
- [26] *Relative epis need not be surjective.* **Algebra Universalis** 20 (1985), 197-204. Andr eka, H. and P asztor, A.
- [25] *Remark on one-sided A -ideals of semigroups.* **Math. Slovaca** 33,2 (1983), 231-235. Andr eka, H., N emeti, I. and Sulka, R.
- [24] *A complete logic for reasoning about programs via nonstandard model theory.* **Theoretical Computer Science** 17 (1982), Part I in No 2, pp.193-212, Part II in No 3, pp.259-278. Andr eka, H., N emeti, I. and Sain, I.

- [23] *Quasivarieties of partial algebras – a unifying approach towards a two-valued model theory for partial algebras.* **Studia Sci. Math. Hungar.**16 (1981), 325–372. Andr eka, H., Burmeister, P. and N emeti, I.
- [22] *Dimension complemented and locally finite dimensional cylindric algebras are elementarily equivalent.* **Algebra Universalis** 13 (1981), 157–163. Andr eka, H. and N emeti, I.
- [21] *HSPK is an equational class, without the axiom of choice.* **Algebra Universalis** 13 (1981), 164–166. Andr eka, H. and N emeti, I.
- [20] *Similarity types, pseudosimple algebras, and congruence representation of chains.* **Algebra Universalis** 13 (1981), 293–306. Andr eka, H. and N emeti, I.
- [19] *Does $SPK \supseteq PSK$ imply axiom of choice?.* **Comm. Math. Univ. Carolinae.** 21,4 (1980), 699–706. Andr eka, H. and N emeti, I.
- [18] *On systems of varieties definable by schemes of equations.* **Algebra Universalis** 11 (1980), 105–116. Andr eka, H. and N emeti, I.
- [17] *Injectivity in categories to represent all first order formulas.* **Demonstratio Mathematica** 12 (1979), 717–732, Andr eka, H. and N emeti, I.
- [16] *Formulas and ultraproducts in categories.* **Beitr age zur Algebra und Geometrie** 8 (1979), 133–151. Andr eka, H. and N emeti, I.
- [15] *Neat reducts of varieties.* **Studia Sci. Math. Hungar.** 13 (1978), 47–51. Andr eka, H. and N emeti, I.
- [14] *Los lemma holds in every category.* **Studia Sci. Math. Hungar.** 13 (1978), 361–376. Andr eka, H. and N emeti, I.
- [13] *The generalised completeness of Horn predicate logic as a programming language.* **Acta Cybernetica** Tom 4, Fasc 1 (Szeged 1978), 3–10. Andr eka, H. and N emeti, I.
- [12] *On universal algebraic construction of logics.* **Studia Logica** 36,1–2 (1977), 9–47. Andr eka, H., Gergely, T. and N emeti, I.
- [11] *On the adequateness of predicate logic programming.* **AISB European Newsletter** Issue 23 (1976), 30–32. Andr eka, H. and N emeti, I.
- [10] *On a proof of Shelah.* **Bulletin de l’Academie Polonaise des Sciences (Series Math.)** 27 (1976), 1–7. Andr eka, H., Dahn, B. I. and N emeti, I.

- [9] *Remarks on free products in regular varieties and sink-complemented subalgebras.* **Studia Sci. Math. Hung.** 10 (1975), 23–31, Andréka, H. and Németi, I.
- [8] *A simple, purely algebraic proof of the completeness of some first order logics.* **Algebra Universalis** 5 (1975), 8–15. Andréka, H. and Németi, I.
- [7] *Many-sorted languages and their connection with higher order languages.* (In Russian) (Mnogoszortnűje jázüki i ih szvjáz sz jázükámi n-ovo porjádka.) **Kibernetika** 75,4 (Kijev 1975), 86–92. Andréka, H., Gergely, T. and Németi, I.
- [6] *On some questions of higher order logic.* (In Hungarian) (Az ennedrendű nyelvek néhány kérdéséről.) **Matematikai Lapok** 24 (1975), 63–94. Andréka, H., Gergely, T. and Németi, I.
- [5] *Subalgebra systems of algebras with finite and infinite, regular and singular arities.* **Annales Univ. Budapest. Eötvös Sec. Math.** 17 (1974), 103–118. Andréka, H. and Németi, I.
- [4] *Sufficient and necessary condition for the completeness of a calculus.* **Zeitschr. Math. Logic u. Grndl. Math.** Bd 20 (1974), 433–434. Andréka, H., Gergely, T. and Németi, I.
- [3] *On some questions of n -th order logic.* (In Russian) (O nyekotorüh váprószáh jázükovo n-ovo porjádka. I–II.) **Kibernetika** 74/5, 74/6 (Kijev 1974), 61–67, 77–83. Andréka, H., Gergely, T. and Németi, I.
- [2] *On the equivalence of sets definable by satisfaction and ultrafilters.* **Studia Sci. Math. Hungar.** 8 (1973), 463–467. Andréka, H. and Németi, I.
- [1] *Notes on maximal congruence relations, automata and related topics.* **Acta Cybernetica** Tom 2, Fasc 1 (Szeged 1973), 71–88. Andréka, H., Horváth, S. and Németi, I.

4 Invited Book Chapters

- [17] *Finite-variable logics do not have weak Beth definability property.* In: **The road to universal logic Vol II** A. Koslow and A. Buchsbaum eds, Studies in Universal Logic, Birkhouser Basel, 2015, pp.125-133. Andréka, H. and Németi, I.

- [16] *Changing a semantics: opportunism or courage?*. In: **The life and work of Leon Henkin. Essays on his contributions** M. Manzano, I. Sain and E. Alonso eds, Studies in Universal Logic, Springer Verlag, 2014, pp.307-337. Andr eka, H., van Benthem, J. F. A. K., Bezhanishvili, N. and N emeti, I.
- [15] *Comparing theories: the dynamics of changing vocabulary. A case-study in relativity theory*. In: **Johan van Benthem on Logical and Informational Dynamics** A. Baltag, S. Smets eds, Springer Series Outstanding contributions to logic Vol 5 Springer Verlag, 2014. pp.143-172. Andr eka, H. and N emeti, I.
- [14] *Reducing first-order logic to Df_3 , free algebras*. In: **Cylindric-like algebras and algebraic logic**, H. Andr eka, M. Ferenczi and I. N emeti eds, Bolyai Society Mathematical Studies 22, Springer Verlag, Berlin, 2013. pp.15-35. Andr eka, H. and N emeti, I.
- [13] *The development of symbolic logic in Hungary*. In: **Logic in Central and Eastern Europe: History, Science and Discourse**, A. Schumann ed, University Press of America, 2012. pp.201-216. M ate, A., Andr eka, H. and N emeti, I.
- [12] *Vienna Circle and Logical Analysis of Relativity Theory*. In: **The Vienna Circle in Hungary (Der Wiener Kreis in Ungarn)** (M ate, A., R edei, M., Stadler, F. eds), Ver offentlichungen des Instituts Wiener Kreis, Collegium Logicum Band 16, 2011. pp.247-268. Andr eka, H., Madar asz, J. X., N emeti, I., N emeti, P. and Sz ekely, G.
- [11] *Visualizing ideas about G odel-type rotating universes*. In: **G odel-type spacetimes: history and new developments** (Scherfner, M., Plaue, M. eds), Kurt G odel Society, Collegium Logicum Vol X, 2010. pp.77-127. N emeti, I., Madar asz, J. X., Andr eka, H. and Andai, A.
- [10] *Logic of space-time and relativity theory*. In: **Handbook of Spatial Logics** (Aiello, M., Pratt-Hartmann, I., Benthem, J. F. A. K. van eds), Springer Verlag, 2007. pp.607-711. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [9] *Logical axiomatizations of space-time. Samples from the literature*. In: **Non-Euclidean Geometries: J anos Bolyai Memorial Volume** (Pr ekopa, A., Moln ar, E. eds), Mathematics and Its Applications Vol. 581, Springer Verlag, 2006. pp. 155-185. Andr eka, H., Madar asz, J. X. and N emeti, I.

- [8] *Logical analysis of relativity theories*. In: **First-order Logic Revisited** (Hendricks et al. eds), Logos Verlag, Berlin, 2004. pp.7-36. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [7] *Relational Algebras*. In: **The Concise Handbook of Algebra**. Editors: Mikhalev, A. V. and Pilz, G. F. Kluwer Academic Publishers, Dordrecht, Boston, London, 2002. pp. 478-482. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [6] *Algebraic Logic*. In: Supplement III of **Encyclopaedia of Mathematics**. Editor: Hazewinkel, M. Kluwer Academic Publishers, 2002. pp.31-34. Andr eka, H., Madar asz, J. X. and N emeti, I.
- [5] *Algebraic Logic*. In: **Handbook of Philosophical Logic**, Vol. 2, second edition, eds. D. M. Gabbay and F. Guenther, Kluwer Academic Publishers, 2001. pp. 133-247. Andr eka, H., N emeti, I. and Sain, I.
- [4] *Submodel preservation theorems in finite variable fragments*. In: **Modal Logic and Process Algebra. A Bisimulation Perspective**. Eds: Ponse, A. de Rijke, M. and Venema, Y. CSLI Lecture Notes No. 53, CSLI Publications, 1995. pp.1-11. Andr eka, H., van Benthem, J. and N emeti, I.
- [3] *Effective temporal logics of programs*. In: **Time and Logic, a computational approach**, eds: Bolc, L. and Szalas, A., UCL Press, London, 1995. pp.51-129. Andr eka, H., Goranko, V., Mikul as, Sz., N emeti, I. and Sain, I.
- [2] *General algebraic logic: a perspective on "what is logic"*. In: **What is a logical system**, ed: D. M. Gabbay, Clarendon Press, Oxford, 1994. pp.393-444. Andr eka, H. and N emeti, I.
- [1] *Some new landmarks on the roadmap of two dimensional logics*. In: **Logic and Information Flow**, ed.: J. van Eijck and A. Visser, MIT Press, Cambridge, 1994. pp. 163-169. Andr eka, H., N emeti, I. and Sain, I.

5 Book Chapters

- [3] *V egesen axiomatiz alt cilindrikus G odel-Bernays halmazelm elet. (Finitely axiomatized cylindric G odel-Bernays set theory)*. In: **Nehogy  ervgy ul ol ok legy unk: tanulm anyk otet M ate Andr as 60. sz ulet esnapj ara. (Essays dedicated to Andr as M ate on the occasion of his 60th birthday)**, Zvolenszky, Zs., Moln ar, A., Mekis, P., Markovich, R., Jellinek, S.,

Gömöri, M., Bitai, T. eds, L'Harmattan, Budapest, 2013. pp.184-192. Andr eka, H. and N emeti, I.

[3] *Residuated Kleene Algebras*. In: **Logic and program semantics. Essays dedicated to Dexter Kozen on the occasion of his 60th birthday**, R. I. Constable and A. Silva eds, Lecture Notes in Computer Science Vol. 7230, Springer-Verlag, Berlin, 2012. pp.35-61. Andr eka, H. Mikul as, Sz. and N emeti, I.

[2] *Causes and remedies for undecidability in arrow logics and in multi-modal logics*. **Arrow Logic and Multi-Modal Logic**, M. Marx, L. P olos, and M. Masuch eds, CSLI Publications, Stanford, California, 1996. pp.63-99. Andr eka, H., Kurucz,  ., N emeti, I., Sain, I. and Simon, A.

[1] *Direct limits and filtered colimits are strongly equivalent in all categories*. **Algebra and its applications**, Banach Center Publications Vol 9, PWN – Polish Scientific Publishers, Warszawa 1980. pp.75–88. Andr eka, H. and N emeti, I.

6 Proceedings, refereed

[22] *Can general relativistic computers break the Turing barrier?*. In: **Logical Approaches to Computational Barriers** (Proc. Conf. CiE 2006, Swansea, UK, July 2006) Eds.: Beckmann, A., Berger, U., L owe, B. and Tucker, J. V., Lecture Notes in Computer Science Vol 3988, Springer-Verlag, Berlin, 2006. pp.398-412. N emeti, I. and Andr eka, H.

[21] *Operators and laws for combining preferential relations (Extended abstract)*. In: **Information Systems: Correctness and Reusability (Selected papers)**, eds: Wieringa, R. J. and Feenstra, R. B., World Scientific Publishing Co, 1995, pp.191-206. Andr eka, H., Ryan, R. and Schobbens, P-Y.

[20] *Exactly which logics touched by the dynamic trend are decidable?*. In: **Proceedings of 9th Amsterdam Colloquium** (Dec.14-17, 1993), ILLC, Department of Philosophy, University of Amsterdam, 1994. Eds: P. Dekker and M. Stokhof. pp.67-86. Andr eka, H., Kurucz,  ., N emeti, I., Sain, I. and Simon, A.

[19] *Craig property of a logic and decomposability of theories*. In: **Proceedings of 9th Amsterdam Colloquium** (Dec.14-17, 1993), ILLC, Depart-

ment of Philosophy, University of Amsterdam, 1994. Eds: P. Dekker and M. Stokhof. pp.87-93. Andr eka, H., N emeti, I. and Sain, I.

[18] *Applying algebraic logic to logic*. In: **Algebraic methodology and software technology** (AMAST'93, Proc. Twente, The Netherlands, June 1993), Nivat, M., Rattray, C., Rus, T. and Scollo, G. eds., Springer-Verlag, London, 1994. pp.7-28. Andr eka, H., N emeti, I. and Sain, I.

[17] *On J onsson's clones of operations on binary relations*. In: **Algebraic Logic** (Coll. Math. Soc. J. Bolyai Vol. 54), North-Holland, 1991. pp.431-442. Andr eka, H. and N emeti, I.

[16] *Relatively free relation algebras*. (Extended abstract) In: **Algebraic Logic and Universal Algebra in Computer Science** (Proc. Conf. Ames 1988) Lecture Notes in Computer Science Vol 425, Springer-Verlag, Berlin, 1990. pp.1-14. Andr eka, H., J onsson, B. and N emeti, I.

[15] *On residuated approximations*. In: **Categorical Methods in Computer Science (with aspects from Topology)** eds: Ehrig, J., Herrlich, H., Kreowski, H-J. and Preuss, G. Lecture Notes in Computer Science Vol 393, Springer-Verlag, Berlin, 1989, pp.333-339. Andr eka, H., Greechie, R. J. and Strecker, G. E.

[14] *On the strength of temporal proofs*. In: **Mathematical Foundations of Computer Science'89** (Proc. Porabka-Kozubnik, Poland, 1989) Eds.: Kreczmar, A. and Mirkowska, G. Lecture Notes in Computer Science Vol 379, Springer-Verlag, Berlin, 1989. pp.135-144. Andr eka, H., N emeti, I. and Sain, I.

[13] *Clones of operations on relations*. In: **Universal Algebra and Lattice Theory** (Proc. Conf. Charleston 1984) Lecture Notes in Mathematics Vol 1149, Springer-Verlag, Berlin, 1985. pp.7-21. Andr eka, H., Comer, S. D. and N emeti, I.

[12] *Importance of universal algebra for computer science*. In: **Universal algebra and its links with logic, algebra, combinatorics, and computer science** (Proc. of the "25th Arbeitstagung  ber Allgemeine Algebra", Darmstadt 1983) Eds.: Burmeister, P., Ganter, B., Herrman, C., Keimel, K., Poguntke, W. and Wille, R. Research and Exposition in Math. Vol 4, Heldermann Verlag, Berlin, 1984. pp.204-215. Andr eka, H. and N emeti, I.

[11] *Sharpening the characterization of the power of Floyd method*. In: **Logics of Programs and their Applications** (Proc. Conf. Poznan 1980) ed:

- Salwicki, A. Lecture Notes in Computer Science Vol 148, Springer-Verlag, Berlin, 1983, pp.1-26. Andr eka, H.
- [10] *Some universal algebraic and model theoretic results in computer science.* In: **Fundamentals of Computation Theory'81** (Proc. Conf. Szeged 1981) Ed.: G ecseg, F. Lecture Notes in Computer Science Vol 117, Springer-Verlag, Berlin, 1981, pp.16–23. Andr eka, H. and N emeti, I.
- [9] *Which finite cylindric algebras are generated by a single element?.* In: **Finite Algebra and Multiple-valued Logic** (Proc. Coll. Szeged 1979) Colloq. Math. Soc. J. Bolyai Vol 28, North-Holland, Amsterdam, 1981. pp.23–39. Andr eka, H. and N emeti, I.
- [8] *A characterization of Floyd provable programs.* In: **Mathematical Foundations of Computer Science'81** (Proc. Conf. Strbsk e Pleso, Czechoslovakia 1981). Eds.: Gruska, J. and Chytil, M. Lecture Notes in Computer Science Vol 118, Springer-Verlag, Berlin, 1981. pp.162–171. Andr eka, H., N emeti, I., and Sain, I.
- [7] *Connections between algebraic logic and initial algebra semantics of CF languages.* In: **Mathematical Logic in Computer Science** (Proc. Coll. Salg otarj an 1978), eds: D om olki, B. and Gergely, T. Colloq. Math. Soc. J. Bolyai Vol 26, North-Holland, Amsterdam, 1981, pp.25-83. Andr eka, H. and Sain, I.
- [6] *A general axiomatizability theorem formulated in terms of cone-injective subcategories.* In: **Universal Algebra** (Proc. Coll. Esztergom 1977) Colloq. Math. Soc. J. Bolyai Vol 29, North-Holland, Amsterdam, 1981. pp.13–35. Andr eka, H. and N emeti, I.
- [5] *Model theoretical semantics for many-purpose languages and language hierarchies.* In: **Computational Linguistics** (Proc. 8th Int. Conf. Tokyo 1980) Tokyo, 1980. pp.213–219. Andr eka, H., Gergely, T. and N emeti, I.
- [4] *Completeness problems in verification of programs and program schemes.* In: **Mathematical Foundations of Computer Science'79** (Proc. Conf. Olomouc Czechoslovakia 1979), Ed.: Becvar, J. Lecture Notes in Computer Science Vol 74, Springer-Verlag, Berlin, 1979. pp.208–218. Andr eka, H., N emeti, I. and Sain, I.
- [3] *Henkin-type semantics for program schemes to turn negative results to positive.* In: **Fundamentals of Computation Theory'79** (Proc. Conf.

Berlin 1979) Ed.: L. Budach, Akademie Verlag, Berlin, 1979. Band 2, pp.18–24. Andr eka, H., N emeti, I. and Sain, I.

[2] *Reduced products in categories.* In: **Contributions to General Algebra** (Proc. Conf. Klagenfurt 1978) Verlag Johannes Heyn, 1979. pp.25–45. Andr eka, H., Makai, E., M arki, L. and N emeti, I.

[1] *On the congruence lattice of pseudosimple algebras.* In: **Contributions to Universal Algebra** (Proc. Coll. Szeged 1975) Colloq. Math. Soc. J. Bolyai Vol 17, North–Holland, Amsterdam, 1977. pp.15–20. Andr eka, H. and N emeti, I.

7 Conference volumes, refereed

[3] *Decidability, undecidability, and G odel incompleteness in relativity theory.* In: **Proceedings of the Satellite Workshops of UC2011**, (Stannett, M., Makowiec, D., Lawniczak, A. T., Di Stefano, B. N. eds) TUCS Lecture Notes 14, Turku Centre for Computer Science, Turku, Finland, 2011. ISBN 978-952-12-2602-1. pp.61-78. Andr eka, H., Madar asz, J. X. and N emeti, I..

[2] *Closed timelike curves in relativistic computation.* In: **Proceedings of the Satellite Workshops of UC2011**, (Stannett, M., Makowiec, D., Lawniczak, A. T., Di Stefano, B. N. eds) TUCS Lecture Notes 14, Turku Centre for Computer Science, Turku, Finland, 2011. ISBN 978-952-12-2602-1. pp.155-171. Andr eka, H., N emeti, I. and Sz ekely, G.

[1] *A logical investigation of inertial and accelerated observers in flat space-time.* In: **Kalm ar Workshop on Logic and Computer Science**, (G ecseg, F. Csirik, J. and Tur an, Gy. eds) Department of Informatics, University of Szeged, Szeged, Hungary, 2003. pp.45-57. Andr eka, H., Madar asz, J. X., N emeti, I. and Sz ekely, G.

8 Short papers

[6] *Relativity theory for logicians and new computing paradigms. Abstract of talk.* In: **Logical Approaches to Computational Barriers** (Second Conference on Computability in Europe CiE 2006, Swansea, UK, June/July

2006), eds: Beckmann, A., Berger, U., Löwe, B. and Tucker, J. V., University of Wales Swansea, Computer Science, Report No CSR 7-2006, pp.12-14. Andr eka, H.

[5] *New physics and hypercomputation*. In: **SOFSEM 2006: Theory and Practice of Computer Science** (32nd Conf. on Current Trends in Theory and Practice of Computer Science, Merin, Czech Republic, January 2006), Lecture Notes in Computer Science 3831, eds: Wiedermann, J., Tel, G., Pokorny, J. Bielikova, M. and Stuller, J., Springer Verlag, 2006, Invited talks section, p.63. N emeti, I. and Andr eka, H.

[4] *Developments after 1991*. Chapter in J. D. Monk: Introduction to cylindric algebras. **Logic Journal of IGPL** (Special issue on Algebraic Logic) 8,4 (2000), 451-506. Andr eka, H.

[3] *Decision problems for equational theories of relation algebras*. **Bulletin of Section of Logic** 23,2 (1994), 47-52. Andr eka, H., Givant, S. and N emeti, I.

[2] *On the “union-relationcomposition” reducts of relation algebras*. **Abstracts of Amer. Math. Soc.** 10,2 (1989), p.174. *89T-08-21. Andr eka, H.

[1] *Nonfinite axiomatizability of the polyadic operations in algebraic logic*. **Abstracts of Amer. Math. Soc.** 9,6 (1988), p.500. *88T-03-264. Andr eka, H. and Tuza, Zs.

9 Dissertations

[3] *Complexity of equations valid in algebras of relations*. **Doctoral Dissertation with the Hungarian Academy of Sciences**, Budapest, 1991. 103pp. Andr eka, H.

[2] *Universal algebraic investigations in algebraic logic. (Univerz alis algebrai vizsg alatok az algebrai logika ter let n)*. (In Hungarian) **Dissertation for Candidate’s degree with the Hungarian Academy of Sciences**, Budapest, 1977. 199pp. Andr eka, H.

[1] *Algebraic investigation of first order logic. (Az els rend u logika algebrai vizsg alata)*. (In Hungarian) **Doctoral Dissertation with E tv s Lor nd University**, Budapest, 1973. 162pp. Andr eka, H.