

Publications

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Papers in peer-reviewed journals

- [J25] S. Lapenta, I. Leuştean. Stochastic independence for probability MV-algebras. *Fuzzy Sets and Systems* 298: 94206, 2016.
- [J24] S. Lapenta, I. Leuştean. Scalar extensions for algebraic structures of Łukasiewicz logic. *Journal of Pure and Applied Algebra*, 220: 1538-1553, 2016.
- [J23] S. Lapenta, I. Leuştean. Towards understanding the Pierce-Birkhoff conjecture via MV-algebras. *Fuzzy Sets and Systems*, 276: 114-130, 2015.
- [J22] D. Diaconescu, I. Leuştean. The Riesz MV-algebra hull of an MV-algebra. *Mathematica Slovaca*, 65(4): 801816, 2015. Special issue in honor of Antonio Di Nola.
- [J21] D. Diaconescu, I. Leuştean. Mutually exclusive nuances of truth in Moisil logic. *Scientific Annals of Computer Science "Alexandru Ioan Cuza" Univ. of Iasi*, 25:69-88, 2015. Special issue dedicated to Professor Sergiu Rudeanu on his 80th birthday.
- [J20] A. Di Nola, I. Leuştean. Łukasiewicz logic and Riesz spaces. *Soft Computing*, 18(12): 2349-2363, 2014.
- [J19] D. Diaconescu, T. Flaminio, I. Leuştean. Lexicographic MV-algebras and lexicographic states. *Fuzzy Sets and Systems*, 244:63-85, 2014.
- [J18] I. Leuştean. Hahn-Banach theorems for MV-algebras. *Soft Computing*, 16(11): 1845-1850, 2012
- [J17] I. Leuştean. Metric completions of MV-algebras with states. An approach to stochastic independence. *Journal of Logic and Computation*, 21(3):493-508, 2011.
- [J16] I. Leuştean. Tensor products of probability MV-algebras. *Journal of Multiple-Valued Logic and Soft Computing*, 16(3-5):405-419, 2010.
- [J15] I. Leuştean. A determination principle for algebras of n -valued Łukasiewicz logic. *Journal of Algebra*, 320: 3694-3719, 2008.
- [J14] I. Leuştean. α -convergence and complete distributivity in MV-algebras. *Journal of Multiple-Valued Logic and Soft Computing*, 12(3-4):309-315, 2006.
- [J13] G. Georgescu, I. Leuştean, A. Popescu. Order convergence and distance on Łukasiewicz-Moisil algebras. *Journal of Multiple-Valued Logic and Soft Computing*, 12(1-2):33-69, 2006.
- [J12] B. Gerla, I. Leuştean. Similarity MV-algebras. *Fundamenta Informaticae*, 69(3):287-300, 2006.
- [J11] I. Leuştean. Non-commutative Łukasiewicz propositional logic. *Archive for Mathematical Logic*, 45(2):191-213, 2006.
- [J10] P. Flondor, I. Leuştean. MV-algebras with operators: the commutative and the non-commutative case. *Discrete Mathematics*, 274(1-3):41-76, 2004.
- [J9] A. Di Nola, P. Flondor, I. Leuştean. MV-modules. *Journal of Algebra*, 267(1):21-40, 2003.
- [J8] P. Flondor, I. Leuştean. Tensor Products of MV-algebras. *Soft Computing*, 7:446-457, 2003.

- [J7] R. Ball, G. Georgescu, I. Leuştean. Cauchy completions of MV-algebras. *Algebra Universalis*, 47: 367-407, 2002.
- [J6] I. Leuştean. Local pseudo-MV algebras. *Soft Computing*, 5(5):386-395, 2001.
- [J5] G. Georgescu, I. Leuştean. Towards a probability theory based on Moisil logic. *Soft Computing*, 4(1):19-26, 2000.
- [J4] G. Georgescu, I. Leuştean. A representation theorem for monadic Pavelka algebras. *Journal of Universal Computer Science*, 6(1):105-111, 2000.
- [J3] G. Georgescu, I. Leuştean. Probabilities on Łukasiewicz-Moisil algebras. *International Journal of Approximate Reasoning*, 18(3-4):201-215, 1998.
- [J2] G. Georgescu, A. Iorgulescu, I. Leuştean. Monadic and closure MV-algebras. *International Journal of Multiple-Valued Logic*, 3(3):235-257, 1998.
- [J1] G. Georgescu, I. Leuştean. Convergence in perfect MV-algebras. *Journal of Mathematical Analysis and Application*, 228(1):96-111, 1998.

Journal issues as editor

- [JI1] Algebra and Probability in Many-Valued Reasoning. Special issue. *Studia Logica*. 94(2), 2010. Edited by Ioana Leuştean and Vincenzo Marra.

Papers in proceedings

- [P6] A. Di Nola, B. Gerla, I. Leuştean. Adding Real Coefficients to Łukasiewicz Logic: An Application to Neural Networks. In: F. Masulli, G. Pasi, and R. Yager (Eds.), *WILF 2013*, LNAI 8256, pp. 7785, 2013.
- [P5] I. Leuştean. State-complete Riesz MV-algebras and L-measure spaces. *Proceedings of IPMU 2012*, part II, CCIS, 298:226-234, 2012.
- [P4] D. Diaconescu, I. Leuştean, L. Petre, K. Sere, G. Stefanescu. Refinement-Preserving Translation from Event-B to Register-Voice Interactive Systems. *Proceedings of IFM 2012*, 221-236, 2012.
- [P3] A. Di Nola, I. Leuştean. Riesz MV-algebras and their logic. *Proceedings of EUSFLAT-LFA 2011*, 140-145, 2011.
- [P2] I. Leuştean. The tensor PMV-algebra of an MV-algebra. *Proceedings of the 41st IEEE International Symposium for Multiple-Valued Logic*, 274-276, 2011.
- [P1] B. Gerla, I. Leuştean. Many-valued logics and similarities. *Proceedings of IPMU 2004*, 477-484, 2004.

Contributions in handbooks and collections

- [C2] S. Lapenta, I. Leuştean. A general view on normal form theorems for Łukasiewicz logic with product. Dieter Probst and Peter Schuster (eds.), "Concepts of Proof in Mathematics, Philosophy and Computer Science". *Ontos Mathematical Logic 6*. Walter de Gruyter, Berlin, 2016.
- [H1] A. Di Nola, I. Leuştean. Łukasiewicz logic and MV-algebras, P. Cintula, P. Hajek, C. Noguera (eds.), *Handbook of Mathematical Fuzzy Logic - volume 2*, *Studies in Logic 37*, College Publications, London, 1-102, 2011.
- [C1] A. Di Nola, G. Georgescu, I. Leuştean. States on Perfect MV-algebras, in V. Novák, I. Perfilieva (eds.), *Discovering the World With Fuzzy Logic*, *Stud. Fuzziness Soft Comput.* 57, Physica, Heidelberg, 105-125, 2000.

ArXive preprints

- [p3] S. Lapenta, I. Leuştean, A general view on the algebraic semantics of Łukasiewicz logic with product, submitted. [arXiv:1410.8298]
- [p2] A. Di Nola, S. Lapenta, I. Leuştean, An analysis of the logic of Riesz Spaces with strong unit, submitted. [arXiv:1607.08030]
- [p1] S. Lapenta, I. Leuştean, Notes on divisible MV-algebras, *Soft Computing*, submitted. [arXiv:1605.01230]