

List of publications of Mirko Navara

2023/11/1

- [1] Maňasová, V., Navara, M., Pták, P.: Concerning the notion of σ -class—on three questions motivated by quantum system theories. *Acta Polytechnica IV* **10** (1981), 27–37.
- [2] Navara, M., Pták, P.: Two-valued measures on σ -classes. *Čas. Pěst. Mat.* **108** (1983), 225–229.
- [3] Navara, M., Pták, P.: On the Radon-Nikodym property for σ -classes. *J. Math. Phys.* **24** (1983), 1450.
- [4] Navara, M.: *Problem Solving Algorithms of Artificial Intelligence*. Diploma Thesis, Czech Technical University, Praha, 1983.
- [5] Navara, M.: The integral on σ -classes is monotonic. *Rep. Math. Phys.* **20** (1984), 417–421.
- [6] Navara, M.: Two-valued states on a concrete logic and the additivity problem. *Math. Slovaca* **34** (1984), 329–336.
- [7] Bunce, L.J., Navara, M., Pták, P., Wright, J.D.M.: Quantum logics with Jauch-Piron states. *Quart. J. Math. Oxford* **36** (1985), 261–271. DOI 10.1093/qmath/36.3.261
- [8] Binder, J., Navara, M.: Quantum logics with lattice state spaces. *Proc. Amer. Math. Soc.* **100** (1987), 688–693.
- [9] Navara, M.: State space properties of finite logics. *Czechoslovak Math. J.* **37(112)** (1987), 188–196.
- [10] Navara, M.: *State Space of Quantum Logics* (Czech). PhD Thesis, Czech Technical University, Praha, 1987.
- [11] Navara, M.: A note on the axioms of quantum mechanics. *Acta Polytechnica IV* **15** (1988), 5–8.
- [12] Navara, M., Pták, P.: Quantum logics with the Radon-Nikodym property. *Order* **4** (1988), 387–395.
- [13] Navara, M., Pták, P.: Enlargements of logics (σ -orthocomplete case). *Proc. Conf. Topology and Measure V*, Greifswald, 1988, 109–115.
- [14] Navara, M., Pták, P., Rogalewicz, V.: Enlargements of quantum logics. *Pacific J. Math.* **135** (1988), 361–369.

- [15] Navara, M., Rogalewicz, V.: Construction of orthomodular lattices with given state spaces. *Demonstratio Math.* **21** (1988), 481–493.
- [16] Navara, M., Rogalewicz, V.: State isomorphism of orthomodular posets and hypergraphs. In: A. Dvurečenskij and S. Pulmannová (eds.), *Proc. 1st Winter School on Measure Theory*, Liptovský Ján, 93–98, 1988.
- [17] Rogalewicz, V., Navara, M.: On constructions of orthomodular posets. In: A. Dvurečenskij and S. Pulmannová (eds.), *Proc. 1st Winter School on Measure Theory*, Liptovský Ján, 133–137, 1988.
- [18] Navara, M.: When is the integral on quantum probability spaces additive? *Real Analysis Exchange* **14** (1989), 228–234.
- [19] Navara, M.: Integration on generalized measure spaces. *Acta Univ. Carolin. – Math. et Phys.* **30** (1989), 121–124.
- [20] Navara, M., Pták, P.: Almost Boolean orthomodular posets. *J. Pure Appl. Algebra* **60** (1989), 105–111.
- [21] Godowski, R., Navara, M.: Implicative and disjunctive orthomodular posets. *Proc. 2nd Winter School on Measure Theory*, Liptovský Ján, 1990, 64–69.
- [22] Navara, M.: Quantum logics with given automorphism groups, centres and state spaces. *Proc. 2nd Winter School on Measure Theory*, Liptovský Ján, 1990, 163–168.
- [23] Hamhalter, J., Navara, M.: Orthosymmetry and modularity in ortholattices. *Demonstratio Math.* **24** (1991), 323–329.
- [24] Navara, M., Pták, P.: On the state space of soft fuzzy algebras. *Bull. for Studies and Exchanges on Fuzziness and Its Appl.* **48** (1991), 55–63.
- [25] Navara, M., Rogalewicz, V.: The pasting constructions for orthomodular posets. *Math. Nachrichten* **154** (1991), 157–168.
- [26] Navara, M., Rüttimann, G.T.: A characterization of σ -state spaces of orthomodular lattices. *Exposition. Math.* **9** (1991), 275–284.
- [27] Navara, M., Tkadlec, J.: Automorphisms of concrete logics. *Comment. Math. Univ. Carolin.* **32** (1991), 15–25.
- [28] Navara, M.: Independence of automorphism group, center, and state space of quantum logics. *Internat. J. Theoret. Phys.* **31** (1992), 925–935.
- [29] Navara, M.: Regularity and σ -additivity of states on quantum logics. *Proc. Amer. Math. Soc.* **115** (1992), 427–429.
- [30] Navara, M.: Descriptions of state spaces of orthomodular lattices. *Math. Bohem.* **117** (1992), 305–313.

- [31] Navara, M., Pták, P.: On the Radon-Nikodým property in quantum logics. In: *Topology, Measures, and Fractals*, C. Bandt, J. Flachsmeier, H. Haase (eds.), Akademie Verlag, Berlin, 1992, 147–153.
- [32] Navara, M., Pták, P.: Alternative probability models. *Proc. Workshop '92*, CTU Prague, 1992, 29–30.
- [33] Navara, M., Pták, P.: States on soft fuzzy algebras — finite and countable additivity. *Tatra Mt. Math. Publ.* **1** (1992), 125–134.
- [34] Navara, M.: A characterization of triangular norm based tribes. *Tatra Mt. Math. Publ.* **3** (1993), 161–166.
- [35] Navara, M.: Kernel logics. *Tatra Mt. Math. Publ.* **3** (1993), 27–30.
- [36] Navara, Michal, Navara, Mirko: A mathematical model of sound transmission through the middle ear. *Workshop '93*, CTU, Praha, 1993, 27–28.
- [37] Navara, M., Pták, P.: P-measures on soft fuzzy σ -algebras. *Fuzzy Sets Syst.* **56** (1993), no. 1, 123–126.
- [38] Navara, M.: An orthomodular lattice admitting no group-valued measure. *Proc. Amer. Math. Soc.* **122** (1994), 7–12. DOI 10.2307/2160833
- [39] Navara, M.: Algebraic approach to fuzzy quantum spaces. *Demonstratio Math.* **27** (1994), no. 3, 589–600.
- [40] Hamhalter, J., Navara, M., Pták, P.: States on orthoalgebras. *Internat. J. Theoret. Phys.* **34** (1995), no. 8, 1439–1465.
- [41] Klement, E.P., Mesiar, R., Navara, M.: Extensions of Boolean functions to T -tribes of fuzzy sets. *Bull. for Studies and Exchanges on Fuzziness and Its Appl.* **63** (1995), 16–21.
- [42] Mayet, R., Navara, M.: Classes of logics representable as kernels of measures. In: *Contributions to General Algebra* **9**, G. Pilz (ed.), Teubner, Stuttgart/Wien, 1995, 241–248.
- [43] Navara, M.: Uniqueness of bounded observables. *Ann. Inst. H. Poincaré — Theor. Phys.* **63** (1995), no. 2, 155–176.
- [44] Navara, M.: Fuzzy quantum spaces and Boolean representations. *Proc. Workshop 95*, CTU, Prague, 1995, 41–42.
- [45] Navara, M.: Non-classical logics representable as kernels of measures on Boolean algebras. *Abstr. 10th Int. Congress of Logic, Methodology and Philosophy of Science*, Florence, Italy, August 19–25, 1995, 415.
- [46] Navara, M.: *Constructions of Quantum Logics* (Czech). Habilitation, CTU, Prague, 1995.

- [47] Roztočil, J., Pokorný, M., Navara, M., Vedral, J.: Dynamic testing of A/D plug-in boards. *Proc. 7th IMEKO International Symposium*, TC-4, Praha, 1995, 245–249.
- [48] Drossos, C., Navara, M.: Generalized t-conorms and closure operators. *Proc. EUFIT 96*, Aachen, 1996, 22–26.
- [49] Mesiar, R., Navara, M.: T_s -tribes and T_s -measures. *J. Math. Anal. Appl.* **201** (1996), 91–102.
- [50] Navara, M.: Quantum logics representable as kernels of measures. *Czechoslovak Math. J.* **46(121)**, (1996), 587–597.
- [51] Pták, P., Navara, M.: Coming from distributive to orthomodular. *Proc. Workshop '96*, CTU, Prague, 1996, 45–46.
- [52] Butnariu, D., Klement, E.P., Navara, M.: All strict triangular norms are “equally strong”. *Proc. Conf. on Fuzzy Logic and Applications*, Tel Aviv, Israel, 1997, 116–124.
- [53] De Simone, A., Navara, M.: Decompositions of states on orthomodular posets. In: *Fuzzy Sets, Quantum Structures and Related Topics*, M. Kalina and A. Stupňanová (eds.), Slovak Tech. Univ., Bratislava, Slovakia, 1997, 14–15.
- [54] De Simone, A., Navara, M.: *Yosida–Hewitt and Lebesgue decompositions of states on orthomodular posets*. Tech. Report no. 40, Università “Federico II” Napoli, Italy, 1997.
- [55] Drossos, C., Navara, M.: Qualitative and quantitative valuation structures. In: *Enriched Lattice Structures for Many-Valued and Fuzzy Logics*, S. Gottwald and E.P. Klement (eds.), Univ. Linz, Austria, 1997, 36–41.
- [56] Drossos, C., Navara, M.: Matrix composition of t-norms. In: *Enriched Lattice Structures for Many-Valued and Fuzzy Logics*, S. Gottwald and E.P. Klement (eds.), Univ. Linz, Austria, 1997, 95–100.
- [57] Klement, E.P., Navara, M.: A characterization of tribes with respect to the Łukasiewicz t-norm. *Czechoslovak Math. J.* **47(122)** (1997), 689–700.
- [58] Navara, M.: Boolean representations of fuzzy quantum spaces. *Fuzzy Sets Syst.* **87** (1997), no. 2, 201–207.
- [59] Navara, M.: On generating finite orthomodular sublattices. *Tatra Mt. Math. Publ.* **10** (1997), 109–117.
- [60] Navara, M.: How prominent is the role of Frank t-norms? *Proc. Congress IFSA 97*, Vol. I, Praha, 1997, 291–296.
- [61] Navara, M.: Fuzzy logic ideas in pattern recognition. *Proc. Czech Pattern Recognition Workshop '97*, Milovy, Czech Republic, 1997, 14–23.

- [62] Navara, M.: Less simple Maple — evaluation rules, bugs, and advantages. In: *Computer Aided Education in Automation and Control*, M. Huba (ed.), Slovak University of Technology, Bratislava, 1997, 74–97.
- [63] Navara, M.: Characterization of state spaces of orthomodular structures. *Proc. Summer School on Real Analysis and Measure Theory*, Grado, Italy, 1997, 97–123.
- [64] Navara, M., Pták, P.: Difference posets and orthoalgebras. *Bull. for Studies and Exchanges on Fuzziness and Its Appl.* **69** (1997), 64–69.
- [65] Navara, M., Pták, P.: Types of uncertainty — types of dependence. *Proc. 4th Workshop on Uncertainty Processing*, University of Economics, Prague, 1997, 130–143.
- [66] Hamouz, M., Navara, M.: Computer algebra systems as a tool for mathematical proofs in quantum logics. *Proc. Conf. Appl. Computer Algebra '98*, <http://www-troja.fjfi.cvut.cz/aca98/proceedings.html>, CTU, Prague, 1998, 1–7.
- [67] Navara, M.: Measures on tribes of fuzzy sets and the role of Frank t-norms. In: *Proc. 7th Int. Conf. Information Processing and Management of Uncertainty*, La Sorbonne, Paris, 1998, 1756–1761.
- [68] Navara, M.: Nearly Frank t-norms and the characterization of T -measures. In: *Non-Classical Measures and their Applications to Decision Making*, D. Butnariu and E.P. Klement (eds.), Univ. Linz, Austria, 1998, 9–16.
- [69] Navara, M., Pták, P.: Quantum logics with given centres and variable state spaces. *Internat. J. Theoret. Phys.* **37** (1998), no. 1, 139–145.
- [70] Navara, M., Pták, P.: Considering uncertainty and dependence in Boolean, quantum and fuzzy logics. *Kybernetika* **34** (1998), no. 1, 121–134.
- [71] Navara, M., Pták, P.: Types of uncertainty and the role of the Frank t-norms in classical and nonclassical logics. In: *Non-Classical Measures and their Applications to Decision Making*, D. Butnariu and E.P. Klement (eds.), Univ. Linz, Austria, 1998, 4–8.
- [72] Starks, S.A., Kreinovich, V., Nguyen, H.T., Nguyen, H.P., Navara, M.: Strong negation: its relation to intervals and its use in expert systems. In: G. Alefeld and R.A. Trejo (eds.), *Interval Computations and its Applications to Reasoning Under Uncertainty, Knowledge Representation, and Control Theory*, Proceedings of MEXICON'98, Workshop on Interval Computations, 4th World Congress on Expert Systems, Mexico City, Mexico, 1998, 56–59.
- [73] Klement, E.P., Navara, M.: Propositional fuzzy logics based on Frank t-norms. In: D. Dubois, E.P. Klement, H. Prade (eds.), *Fuzzy Sets, Logics and Reasoning about Knowledge*. Applied Logic Series, Vol. 15, Kluwer, Dordrecht/Boston/London, 1999, 17–38.

- [74] Klement, E.P., Navara, M.: A survey of different triangular norm-based fuzzy logics. *Fuzzy Sets Syst.* **101** (1999), 241–251. DOI 10.1016/S0165-0114(98)00167-5
- [75] Mayet, R., Navara, M.: Constructions and varieties of orthomodular lattices with rich state spaces. *Proc. Workshop on Measure Theory and Real Analysis*, A. Volčič (ed.), Gorizia, Italy, 1999, 76–89.
- [76] Mesiar, R., Navara, M.: Diagonals of continuous triangular norms. *Fuzzy Sets Syst.* **104** (1999), 34–41.
- [77] Moser, B., Navara, M.: Conditionally firing rules extend the possibilities of fuzzy controllers. In: *Proc. Int. Conf. Computational Intelligence for Modelling, Control and Automation*, M. Mohammadian (ed.), IOS Press, Amsterdam, Netherlands, 1999, 242–245.
- [78] Moser, B., Navara, M.: Which triangular norms are convenient for fuzzy controllers? In: *Proc. EUSFLAT-ESTYLF Joint Conf. 99*, Universitat de les Illes Balears, Palma (Mallorca), Spain, 1999, 75–78.
- [79] Navara, M.: Characterization of measures based on strict triangular norms. *J. Math. Anal. Appl.* **236** (1999), 370–383. DOI 10.1006/jmaa.1999.6438
- [80] Navara, M.: Two descriptions of state spaces of orthomodular structures. *Internat. J. Theoret. Phys.* **38** (1999), no. 12, 3163–3178.
- [81] Navara, M.: Varieties of orthomodular lattices determined by measures. *Proc. 23rd Holiday Mathematics Symposium*, New Mexico State University, Las Cruces, NM, USA, 1999, 9–10.
- [82] Navara, M., Pták, P.: Uncertainty and dependence in classical and quantum logic — the role of triangular norms. In: *Language, Quantum, Music*, M.L. Dalla Chiara, R. Giuntini, F. Laudisa (eds.), Kluwer, Dordrecht, 1999, 249–261.
- [83] Navara, M., Hekrdla, J., Pták, P., Tkadlec, J.: Mathematical models of uncertainty. *Proc. Workshop 2000*, CTU, Prague, 2000, 30.
- [84] Navara, M., Moser, B., Mrázek, P.: Theory and applications of fuzzy control. *Proc. Workshop 2000*, CTU, Prague, 2000, 38.
- [85] Navara, M., Hekrdla, J., Pták, P., Tkadlec, J.: *Mathematical Models of Uncertainty*. Research Report CTU–CMP–2000–05, Center for Machine Perception, Czech Technical University, Prague, Czech Republic, 2000.
- [86] Esteva, F., Godo, L., Hájek, P., Navara, M.: Residuated fuzzy logics with an involutive negation. *Arch. Math. Logic* **39** (2000), 103–124. DOI 10.1007/s001530050006

- [87] Harding, J., Navara, M.: Embeddings into orthomodular lattices with given centers, state spaces and automorphism groups. *Order* **17** (2000), no. 3, 239–254. DOI 10.1023/A:1026593007940
- [88] Mayet, R., Navara, M., Rogalewicz, V.: Orthomodular lattices with rich state spaces. *Algebra Universalis* **43** (2000), 1–30.
- [89] Navara, M.: *Measure Theory on Quantum and Fuzzy Logics*. Thesis, CTU, Prague, 2000.
- [90] Navara, M.: State spaces of orthomodular structures. *Rend. Istit. Mat. Univ. Trieste* **31** (2000), Suppl. 1, 143–201.
- [91] Navara, M.: Satisfiability in fuzzy logics. *Neural Network World* **10** (2000), no. 5, 845–858.
- [92] Navara, M., Žabokrtský, Z.: Computational problems of constrained fuzzy arithmetic. In: *The State of the Art in Computational Intelligence*, P. Šinčák, J. Vaščák, V. Kvasnička and R. Mesiar (eds.), Physica-Verlag, Heidelberg/New York, 2000, 95–98.
- [93] Barbieri, G., Navara, M., Weber, H.: Strict triangular norms and characterization of T -measures. In: *Proc. EUSFLAT 2001*, De Montfort Univ., Leicester, UK, 2001, 455–457.
- [94] Bartušek, T., Navara, M.: How to choose a many-valued conjunction. In: J. Rauch and O. Štěpánková (eds.) *Proc. Znalosti 2001*, VŠE, Praha, 182–190.
- [95] Bartušek, T., Navara, M.: Conjunctions of many-valued criteria. In: M. Komorníková and R. Mesiar (eds.) *Proc. Int. Conf. Uncertainty Modelling'2001*, Bratislava, Slovakia, 2001, 67–77.
- [96] De Simone, A., Navara, M., Pták, P.: On interval homogeneous orthomodular lattices. *Comment. Math. Univ. Carolin.* **42** (2001), no. 1, 23–30.
- [97] De Simone, A., Navara, M.: Yosida–Hewitt and Lebesgue decompositions of states on orthomodular posets. *J. Math. Anal. Appl.* **255** (2001), no. 1, 74–104.
- [98] De Simone, A., Navara, M.: Rüttimann decompositions of states. In: *Quantum Structures V*, International Quantum Structures Association, Cesena–Cesenatico, Italy, 2001, 32–33.
- [99] Harding, J., Navara, M.: Quantum logics with given centers, state spaces and automorphism groups. In: *Quantum Structures V*, International Quantum Structures Association, Cesena–Cesenatico, Italy, 2001, 44–46.
- [100] Horčík, R., Navara, M.: Validation sets in fuzzy logics. In: M. Komorníková and R. Mesiar (eds.) *Proc. Int. Conf. Uncertainty Modelling'2001*, Bratislava, Slovakia, 2001, 82–90.

- [101] Kreinovich, V., Navara, M., Žabokrtský, Z.: Constrained fuzzy arithmetic. In: P. Hájek (ed.), *Proceedings of Workshop on Soft Computing*, Piešťany, Slovakia, 2001, 1–3.
- [102] Mrázek, P., Navara, M.: Consistent positive directional splitting of anisotropic diffusion. In: B. Likar (ed.) *Computer Vision*, Ljubljana, Slovenia, 2001, 37–48.
- [103] Navara, M.: Product logic is not compact. Research Report CTU–CMP–2001–09, Center for Machine Perception, Czech Technical University, Prague, Czech Republic, 2001.
- [104] Navara, M.: Piron’s and Bell’s Geometrical Lemmas. *Proc. Summer School on Real Analysis and Measure Theory*, Grado, Italy, 2001, 1–8.
- [105] Navara, M.: Easy proofs of some consequences of Gleason’s Theorem. *Proc. Summer School on Real Analysis and Measure Theory*, Grado, Italy, 2001, 91–94.
- [106] Navara, M., Bodenhofer, U.: Compactness of fuzzy logics. *Proc. 2nd Int. ICSC Congress on Computational Intelligence: Methods and Applications (CIMA 2001)*, Bangor, Wales, UK, 2001, 654–657.
- [107] Navara, M., Št’astný, J.: Enhancement of Mamdani fuzzy controller. In: *Proc. EUSFLAT 2001*, De Montfort Univ., Leicester, UK, 2001, 168–170.
- [108] Navara, M., Žabokrtský, Z.: How to make constrained fuzzy arithmetic efficient. *Soft Computing* **5** (2001), no. 6, 412–417.
- [109] Navara, M., Olšák, P.: *Basics of Fuzzy Sets* (in Czech). Czech Technical University, Prague, 2002.
- [110] Bartušek, T., Navara, M.: Program for generating fuzzy logical operations and its use in mathematical proofs. *Kybernetika* **38** (2002), no. 3, 235–244.
- [111] Cintula, P., Navara, M.: Which fuzzy logics satisfy the compactness property. *Proc. 9th Int. Conf. Information Processing and Management of Uncertainty*, ESIA - Université de Savoie, Annecy, France, 2002, 405–409.
- [112] De Simone, A., Navara, M.: On the Yosida–Hewitt decomposition and Rüttimann decomposition of states. *Scientiae Mathematicae Japonicae*, **56** (e6) (2002), 49–62.
- [113] De Simone, A., Navara, M.: *On the permanence properties of interval homogeneous orthomodular lattices*. Tech. Report no. 54, Università “Federico II” Napoli, Italy, 2002.
- [114] De Simone, A., Navara, M., Pták, P.: The Vitali–Hahn–Saks theorem for the product of quantum logics. *Demonstratio Math.* **35** (2002), no. 4, 717–725.

- [115] Franc, V., Hlaváč, V., Navara, M.: Global convergence of the EM algorithm for a conditionally independent statistical model and two hidden states. Research Report CTU–CMP–2002–10, CTU, Prague, 2002.
- [116] Horčík, R., Navara, M.: Consistency degrees in fuzzy logics. *Proc. 9th Int. Conf. Information Processing and Management of Uncertainty*, ESIA - Université de Savoie, Annecy, France, 2002, 399–403.
- [117] Horčík, R., Navara, M.: Validation sets in fuzzy logics. *Kybernetika* **38** (2002), no. 3, 319–326.
- [118] Moser, B., Navara, M.: Fuzzy controllers with conditionally firing rules. *IEEE Trans. Fuzzy Systems* **10** (2002), no. 3, 340–348. DOI 10.1109/TFUZZ.2002.1006437
- [119] Navara, M.: Computer algebraic systems in proofs and visualization of results related to Gleason’s Theorem. In: E.P. Klement, R. Mesiar, E. Drobná, F. Chovanec (eds.) *Abstr. 6th Int. Conf. Fuzzy Sets Theory Appl.*, Military Academy, Liptovský Mikuláš, Slovakia, 2002, 95–96.
- [120] Navara, M., Št’astný, J.: Properties of fuzzy controller with conditionally firing rules. In: P. Sinčák, J. Vaščák, V. Kvasnička, J. Pospíchal (eds.) *Intelligent Technologies — Theory and Applications.*, IOS Press, Amsterdam, 2002, 111–116.
- [121] Amato, P., Di Nola, A., Navara, M.: Reformulation of fuzzy controller with conditionally firing rules. In: M. Mohammadian (ed.) *Proc. Int. Conf. Computational Intelligence for Modelling, Control and Automation*, Vienna, Austria, 2003, 140–151.
- [122] Amato, P., Di Nola, A., Navara, M.: Criteria that should be satisfied by Mamdani–Assilian controller. In: Y. Liu, G. Chen, M. Ying, and K.Y. Cai (eds.) *Proc. Int. Conf. on Fuzzy Information Processing Theories and Applications*, Tsinghua Univ. Press/Springer, Beijing, China, 2003, 195–198.
- [123] Amato, P., Di Nola, A., Navara, M.: Mathematical aspects of fuzzy control. *WILF 2003 International Workshop on Fuzzy Logic and Applications*, Naples, Italy, 1–6, 2003.
- [124] Barbieri, G., Navara, M., Weber, H.: Characterization of T -measures. *Soft Computing* **8** (2003), 44–50.
- [125] De Simone, A., Mundici, D., Navara, M.: A Cantor–Bernstein theorem for σ -complete MV-algebras. *Czechoslovak Math. J.* **53(128)** (2003), no. 2, 437–447.
- [126] Franc, V., Hlaváč, V., Navara, M.: Convergence of the Expectation Maximization Algorithm for the Conditionally Independent Model to the Global Maximum. *Proc. Workshop 2003*, CTU Prague, Czech Republic, 2003, 234–235.

- [127] Hekrdla, J., Klement, E.P., Navara, M.: Two approaches to fuzzy propositional logics. *J. Mult.-Valued Logic & Soft Computing* **9** (2003), 343–360.
- [128] Mrázek, P., Navara, M.: Selection of optimal stopping time for nonlinear diffusion filtering. *Int. J. Computer Vision* **52** (2003), 189–203. DOI 10.1023/A:1022908225256
- [129] Navara, M., Němeček, A.: *Numerical Analysis* (in Czech). Czech Technical University, Prague, 2003, 2005.
- [130] Navara, M., Pták, P.: Convex structure of the space of fuzzy measures. In: *Proc. 24th Linz Seminar on Fuzzy Set Theory*, Univ. Linz, Austria, 2003, 149–151.
- [131] Butnariu, D., Klement, E.P., Mesiar, R., Navara, M.: Triangular norms and negations – which expressions do they allow? In: E.P. Klement, R. Mesiar, E. Drobná, F. Chovanec (eds.), *Abstr. 7th Int. Conf. Fuzzy Sets Theory Appl.*, Military Academy, Liptovský Mikuláš, Slovakia, 2004, 25–26.
- [132] Cintula, P., Navara, M.: Compactness of fuzzy logics. *Fuzzy Sets Syst.* **143** (2004), 59–73. DOI 10.1016/j.fss.2003.06.002
- [133] De Simone, A., Navara, M.: On the permanence properties of interval homogeneous orthomodular lattices. *Math. Slovaca* **54** (2004), 13–21.
- [134] Di Nola, A., Navara, M.: Set representations of sigma-complete MV-algebras. Techn. Report CTU–CMP–2004–14, CTU, Prague, 2004.
- [135] Navara, M.: Statistics - its exceptional role in science and arguments for its revision (in Czech). In: L. Töröková, M. Marčoková (eds.), 36th Conference of Slovak Mathematicians, University of Žilina, Slovakia, 2004, 14–15.
- [136] Navara, M.: Piron’s and Bell’s geometrical lemmas. *Internat. J. Theoret. Phys.* **43** (2004), no. 7, 1587–1594. DOI 10.1023/B:IJTP.0000048804.78491.34
- [137] Navara, M., Peri, D.: Automatic generation of fuzzy rules and its applications in medical diagnosis. *Proc. 10th Int. Conf. Information Processing and Management of Uncertainty*, Perugia, Italy, Vol. 1, 657–663, 2004.
- [138] Navara, M., Pták, P.: For $n \geq 5$ there is no nontrivial Z_2 -measure on $L(R^n)$. *Internat. J. Theoret. Phys.* **43** (2004), no. 7, 1595–1598. DOI 10.1023/B:IJTP.0000048805.76224.2d
- [139] Navara, M., Pták, P.: Regular measures on tribes of fuzzy sets. In: *Mathematics of Fuzzy Systems*, E.P. Klement and E. Pap (eds.), Univ. Linz, Austria, 2004, 153–161.

- [140] Butnariu, D., Klement, E.P., Mesiar, R., Navara, M.: Sufficient triangular norms in many-valued logics with standard negation. *Arch. Math. Logic* **44** (2005), 829–849. DOI 10.1007/s00153-004-0267-6
- [141] Butnariu, D., Klement, E.P., Mesiar, R., Navara, M.: Sufficient triangular norms in many-valued logics. In: *IEEE-SOFA 2005: International Workshop on Soft Computing Applications*, Szeged (Hungary) and Arad (Romania), 2005, 8–9.
- [142] Butnariu, D., Navara, M., Vetterlein, T.: Linear space of fuzzy vectors. In: Siegfried Gottwald, Petr Hájek, Ulrich Höhle, Erich Peter Klement (editors), *Fuzzy Logics and Related Structures*, Linz, Austria, 2005, 23–26.
- [143] Cintula, P., Klement, E.P., Mesiar, R., Navara, M.: On the special role of the Hamacher product in fuzzy logics. In: Siegfried Gottwald, Petr Hájek, Ulrich Höhle, Erich Peter Klement (editors), *Fuzzy Logics and Related Structures*, Linz, Austria, 2005, 34–37.
- [144] Cintula, P., Navara, M.: Theorem proving in fuzzy logics. In: V. Novák, M. Štěpnička, *International Conference The Logic for Soft Computing IV & 4th Workshop of the ERCIM Working Group on Soft Computing*, University of Ostrava, Czech Republic, 2005, 78–80.
- [145] De Simone, A., Navara, M., Pták, P.: Extending states on finite concrete logics. *Internat. J. Theoret. Phys.* **44** (2005), no. 7, 1087–1093; erratum **46** (2007), no. 8, 2046–2052.
- [146] Di Nola, A., Navara, M.: The σ -complete MV-algebras which have enough states. *Colloquium Math.* **103** (2005), 121–130.
- [147] Franc, V., Hlaváč, V., Navara, M.: Sequential Coordinate-wise Algorithm for Non-negative Least Squares Problem. In: Gagalowicz, A. and Philips, W. (eds.), *CAIP 2005: Computer Analysis of Images and Patterns*, LNCS 3691, Springer-Verlag, Berlin, Germany, 2005, 407–414.
- [148] Ghiselli Ricci, R., Navara, M.: Convexity conditions on t-norms and their additive generators. *Fuzzy Sets Syst.* **151** (2005), no. 2, 353–361. DOI 10.1016/j.fss.2004.05.005
- [149] Hyčko, M., Navara, M.: Decidability in orthomodular lattices. *Internat. J. Theoret. Phys.* **44** (2005), no. 12, 2239–2248. DOI 10.1007/s10773-005-9019-6
- [150] Navara, M.: Triangular norms and measures of fuzzy sets. In: E.P. Klement and R. Mesiar (eds.), *Logical, Algebraic, Analytic, and Probabilistic Aspects of Triangular Norms*, Elsevier, 2005, 345–390.
- [151] Navara, M.: Probability Theory on Quantum and Fuzzy Logics. Professorial Lectures 6/2005, Czech Technical University, Praha, 2005.

- [152] Navara, M.: Probability theory of fuzzy events. In: E. Montseny, P. Sobrevilla (eds.), *Fourth Conference of the European Society for Fuzzy Logic and Technology and 11 Rencontres Francophones sur la Logique Floue et ses Applications*, Universitat Politècnica de Catalunya, Barcelona, Spain, 2005, 325–329.
- [153] Vetterlein, T., Navara, M.: The Steiner point of fuzzy sets. In: Y. Liu, G. Chen, M. Ying (eds.), *Fuzzy Logic, Soft Computing & Computational Intelligence*, Eleventh International Fuzzy Systems Association World Congress, Tsinghua University Press/Springer, Beijing, China, 2005, 1256–1258.
- [154] Vetterlein, T., Navara, M.: Defuzzification using Steiner points. Techn. Report CTU–CMP–2005–20, CTU, Prague, 2005.
- [155] Amato, P., Di Nola, A., Navara, M.: Mathematical aspects of fuzzy control. In: V. Gesù, F. Masulli, A. Petrosino (eds.), *Fuzzy Logic and Applications: 5th International Workshop, WILF 2003*, Lecture Notes in Computer Science 2955, Springer-Verlag, 2006, 80–88.
- [156] Cignoli, R., Mundici, D., Navara, M.: Kleene-isomorphic σ -complete MV-algebras with product are isomorphic. *J. Mult.-Valued Logic & Soft Computing* **10** (2006), no. 1–2, 1–8.
- [157] Cintula, P., Klement, E.P., Mesiar, R., Navara, M.: Varieties of algebras based on strict t-norms and involutive negations. In: E.P. Klement, R. Mesiar, E. Drobná, F. Chovanec (eds.), *Abstr. 8th Int. Conf. Fuzzy Sets Theory Appl.*, Military Academy, Liptovský Mikuláš, Slovakia, 2006, 8–9.
- [158] Cintula, P., Klement, E.P., Mesiar, R., Navara, M.: Residuated logics based on strict t-norms with an involutive negation. *Mathematical Logic Quarterly* **52** (2006), no. 3, 269–282.
- [159] Navara, M.: Pastings and related constructions of quantum structures. In: *8th Biennial IQSA Meeting Quantum Structures '06, Book of Abstracts*, 2006, 65–66.
- [160] Navara, M., Němeček, A.: Long-term experience with Maple: Advantages and challenges of Maple 10. Book of Proceedings, Maple Conference 2006, Wilfrid Laurier University, Maplesoft; Waterloo, Ontario, Canada, 2006, 353–354.
- [161] Navara, M., Petřík, M.: Fuzzy control – expectations, current state, and perspectives. In: B. Reusch (ed.), *Computational Intelligence, Theory and Applications*. Advances in Soft Computing, Springer, Berlin/Heidelberg/New York, 2006, 667–676.
- [162] Vetterlein, T., Navara, M.: Defuzzification using Steiner points. *Fuzzy Sets Syst.* **157** (2006), 1455–1462. DOI 10.1016/j.fss.2006.01.012

- [163] Navara, M.: *Probability and Mathematical Statistics* (in Czech). Czech Technical University, Prague, 2007.
- [164] Navara, M., Olšák, P.: *Basics of Fuzzy Sets* (in Czech). 2nd ed. (revised), Czech Technical University, Prague, 2007.
- [165] Di Nola, A., Navara, M.: MV-algebras with the Cantor–Bernstein property. In: O. Castillo et al. (eds.), *Theoretical Advances and Applications of Fuzzy Logic and Soft Computing*, Advances in Soft Computing **42**, Springer, Berlin/Heidelberg, 2007, 861–868.
- [166] Di Nola, A., Navara, M.: Cantor–Bernstein property. In: *Abstracts of Lectures, Tutorials, and Talks. International Conference on Order, Algebra, and Logics*, Vanderbilt University, Nashville, Tennessee, USA, 2007, 22–23.
- [167] Di Nola, A., Navara, M.: Cantor–Bernstein property for MV-algebras. In: Aguzzoli, S., Ciabattoni, A., Gerla, B., Manara, C., Marra, V. (Eds.): *Algebraic and Proof-theoretic Aspects of Non-classical Logics. Papers in Honor of Daniele Mundici on the Occasion of His 60th Birthday*, Lecture Notes in Computer Science 4460, 107–118, 2007.
- [168] Liang, J., Navara, M.: Implementation of calculating Steiner point for 2-D objects. In: Tianrui Li, Yang Xu, Da Ruan (eds.): *Proc. Int. Conf. Intelligent Systems and Knowledge Engineering*, Chengdu, China; Atlantis Press, Paris, France, 2007, 1592–1598.
- [169] Navara, M.: Probability and conditional probability on tribes of fuzzy sets. In: D. Dubois, E.P. Klement, R. Mesiar: *Fuzzy Sets, Probability, and Statistics — Gaps And Bridges*, Johannes Kepler University, Linz, Austria, 2007, 84–88.
- [170] Navara, M.: Varieties of orthomodular lattices. In: *Applications of Algebra 11*, Zakopane; Jan Długosz University, Częstochowa, Poland, 2007, 31.
- [171] Navara, M.: Triangular Norms and Conorms. *Scholarpedia* **2** (2007) 2398, http://www.scholarpedia.org/article/Triangular_Norms_and_Conorms
- [172] Navara, M.: Constructions of quantum structures. In: D. Gabbay, D. Lehmann, K. Engesser (eds.), *Handbook of Quantum Logic*, Vol. 1, Elsevier, 2007, 335–366. DOI 10.1016/B978-044452870-4/50030-3
- [173] Navara, M.: Constructions of stateless quantum structures. *Abstracts of Workshop on Quantum Structures*, Slovak Technical Univ., Bratislava, Slovakia, 2007, 2–3.
- [174] Navara, M., Petřík, M.: How to use controller with conditionally firing rules. In: Štěpnička, M., Novák, V., Bodenhofer, U.: *New Dimensions in Fuzzy Logic and Related Technologies. Proceedings of the 5th EUSFLAT Conference*, Univ. of Ostrava, Czech Republic, vol. II, 2007, 87–94.

- [175] Liang, J., Navara, M.: Technical aspects of the use of Steiner point of fuzzy set. In: E.P. Klement, R. Mesiar, O. Nánásiová, S. Saminger-Platz, E. Drobná (eds.), *Ninth Int. Conf. Fuzzy Sets Theory Appl.*, Liptovský Ján, Academy of Armed Forces of General M.R. Štefánik, Slovakia, 2008, 14–15.
- [176] Navara, M.: Pastings of orthomodular lattices. In: *Applications of Algebra 12*, Zakopane; Jan Długosz University, Częstochowa, Poland, 2008, 29.
- [177] Navara, M.: Small quantum structures with small state spaces. *Internat. J. Theoret. Phys.* **47** (2008), no. 1, 36–43.
- [178] Navara, M.: Characterization of spaces of countably additive and filtering states. In: *9th Biennial IQSA Meeting Quantum Structures. Book of Abstracts*, Sopot, Poland, 2008, 53.
- [179] Navara, M.: No-go² theorems. In: *FPP-5: Foundations of Probability and Physics-5*, Växjö, Sweden, 2008, 35.
- [180] Navara, M., Němeček, A.: Numerical Analysis with Maple. In: M.M. Maza, S. Watt (eds.), *MICA 2008: Milestones in Computer Algebra*, Stonehaven Bay, Trinidad and Tobago, 2008, 159–166.
- [181] Navara, M., Petřík, M.: Two methods of reconstruction of generators of continuous t-norms. In: L. Magdalena, M. Ojeda-Aciego, and J.L. Verdegay (eds.), *12th International Conference Information Processing and Management of Uncertainty in Knowledge-Based Systems*, Málaga, Spain, 2008, 1016–1021.
- [182] Harding, J., Navara, M.: Different types of pastings of orthomodular lattices. In: *BLAST*, Las Cruces, New Mexico, USA, 2009, 34–35.
- [183] Liang, J., Navara, M., Vetterlein, T.: Different representations of fuzzy vectors. In: C. Sossai and G. Chemello (eds.), *Symbolic and Quantitative Approaches to Reasoning with Uncertainty, Lecture Notes in Computer Science* **5590**, Springer, Berlin/Heidelberg, 2009, 700–711. DOI 10.1007/978-3-642-02906-6
- [184] Navara, M.: Existence of states on quantum structures. *Information Sci.* **179** (2009), 508–514. DOI 10.1016/j.ins.2008.06.011
- [185] Navara, M.: Mathematical questions related to non-existence of hidden variables. In: L. Accardi, G. Adenier, C. Fuchs, G. Jaeger, A. Yu. Khrennikov, J.-A. Larsson, S. Stenholm (eds.), *Foundations of Probability and Physics 5*, American Institute of Physics Conference Proceedings, Vol. 1101, New York, 2009, 119–126. DOI 10.1063/1.3109931

- [186] Navara, M.: Tribes revisited. In: U. Bodenhofer, B. De Baets, E.P. Klement, and S. Saminger-Platz (eds.), *30th Linz Seminar on Fuzzy Set Theory: The Legacy of 30 Seminars—Where Do We Stand and Where Do We Go?*, Johannes Kepler University, Linz, Austria, 2009, 81–84.
- [187] Navara, M., Petrík, M., Sarkoci, P.: Convex combinations of triangular norms. In: U. Bodenhofer, B. De Baets, E.P. Klement, and S. Saminger-Platz (eds.), *30th Linz Seminar on Fuzzy Set Theory: The Legacy of 30 Seminars—Where Do We Stand and Where Do We Go?*, Johannes Kepler University, Linz, Austria, 2009, 85–87.
- [188] Navara, M.: Spaces of faithful states on quantum structures. In: M. Kalina, O. Nánásiová, L. Valášková (eds.), *Abstr. International Conference Quantum Structures 2009*, Kočovce, Slovakia, 2009, 21–23.
- [189] Navara, M.: Colouring of graphs and problems of quantum mechanics. In: *Applications of Algebra 13*, Zakopane, Poland, 2009, 32–33.
- [190] Navara, M.: Valuations on the algebra of intervals. In: *IFSA/EUSFLAT 2009 Proceedings*, Lisbon, Portugal, 2009, 550–554.
- [191] Navara, M.: Several approaches to conditional probability. In: K. Helišová, M. Navara (eds.): *Proceedings of the 4th International Workshop on Nonstandard Logics*, CTU, Praha, 2009, 19–20.
- [192] Navara, M.: What is primary: negation or implication? In: P. Cintula, Z. Haniková, and V. Švejdar (eds.), *Witnessed Years. Essays in Honour of Petr Hájek*, Tributes, vol. 10, King’s College, London, 2009, 227–241.
- [193] Cintula, P., Klement, E.P., Mesiar, R., Navara, M.: Fuzzy logics with an additional involutive negation. *Fuzzy Sets Syst.* **161** (2010), no. 3, 390–411. DOI 10.1016/j.fss.2009.09.003
- [194] Navara, M.: Algebraic view on tribes. In: E.P. Klement, R. Mesiar, P. Struk, E. Drobná (eds.), *Tenth Int. Conf. Fuzzy Sets Theory Appl.*, Liptovský Ján, Academy of Armed Forces of General M.R. Štefánik, Slovakia, 2010, 97.
- [195] Navara, M.: Fuzzy algebras need not be MV-algebras. In: *Applications of Algebra 14*, Zakopane; Jan Długosz University, Częstochowa, Poland, 2010, 38–39.
- [196] Navara, M.: Characterization of spaces of filtering states. *Internat. J. Theoret. Phys.* **49** (2010), no. 12, 3209–3215. DOI 10.1007/s10773-009-0213-9
- [197] Navara, M., Petrík, M., Sarkoci, P.: Explicit formulas for generators of triangular norms. *Publ. Math. Debrecen* **77** (2010), 171–191.

- [198] Navara, M., Petřík, M., Sarkoci, P.: Reconstruction of additive generators from partial derivatives of continuous Archimedean t-norms. 40th IEEE International Symposium on Multiple-Valued Logic, Barcelona, Conference Publishing Services, Los Alamitos/Washington/Tokyo, 2010, 241–244.
- [199] Navara, M.: Several definitions of probability on systems of fuzzy sets. In: E. Fišerová, J. Talašová (eds.), *Olomoucian Days of Applied Mathematics*, Palacký University, Olomouc, Czech Republic, 2011, 48.
- [200] Navara, M.: Vector techniques in fuzzy arithmetic. In: *Applications of Algebra 15*, Zakopane; Jan Długosz University, Częstochowa, Poland, 2011, 30–32.
- [201] Gabriëls, J., Navara, M.: Properties of OML operations and the role of computers in proofs. In: M. Kalina, O. Nánásiová, L. Valášková (eds.), *3rd International Conference Quantum Structures 2011*, Kočovce, Slovakia, 2011, 19–21.
- [202] Harding, J., Navara, M.: Subalgebras of orthomodular lattices. *Order* **28** (2011), no. 3, 549–563. DOI 10.1007/s11083-010-9191-z
- [203] Navara, M.: Computation with fuzzy quantities. In: S. Galichet, J. Montero, and G. Mauris (eds.), *Proceedings of the 7th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-2011) and LFA-2011*, Aix-les-Bains, France, Advances in Intelligent Systems Research, Atlantis Press, 2011, 209–214.
- [204] Harding, J., Navara, M.: Algebras characterized by their lattices of subalgebras. In: *Abstracts of Lectures, Tutorials, and Talks. International Conference on Order, Algebra, and Logics*, Jagiellonian University, Krakow, Poland, 2011, 21.
- [205] Navara, M.: An algebraic generalization of the notion of tribe. *Fuzzy Sets Syst.* **192** (2012) 123–133. doi:10.1016/j.fss.2011.02.001
- [206] Navara, M.: Computation in orthomodular lattices. In: E.P. Klement, R. Mesiar, P. Struk, E. Drobná (eds.), *Eleventh Int. Conf. Fuzzy Sets Theory Appl.*, Liptovský Ján, Academy of Armed Forces of General M.R. Štefánik, Slovakia, 2012, 12–13.
- [207] Navara, M.: What determines quantum structures? In: *Applications of Algebra 16*, Zakopane; Jan Długosz University, Częstochowa, Poland, 2012, 36.
- [208] Gabriëls, J., Navara, M.: Searching normal forms for orthomodular lattices. In: *11th Biennial IQSA Meeting*, Cagliari, Italy, 2012, 29–30.

- [209] Kuková, M., Navara, M.: Central Limit Theorems and Laws of Large Numbers in quantum structures. In: *11th Biennial IQSA Meeting*, Cagliari, Italy, 2012, 44–45.
- [210] Gabriëls, J., Navara, M.: Associativity of operations on orthomodular lattices. *Math. Slovaca* **62** (2012), 1069–1078. <http://dx.doi.org/10.1016/j.ins.2013.02.021>
- [211] Kuková, M., Navara, M.: Various generalizations of the principle of inclusion and exclusion. In: *Applications of Algebra 17*, Zakopane; Jan Długosz University, Częstochowa, Poland, 2013, 20–21.
- [212] Navara, M.: The role of statistics—present and future. *Forum Statisticum Slovacum* **9** (2013), no. 3, 3–9.
- [213] Gabriëls, J., Navara, M.: Computer proof of monotonicity of operations on orthomodular lattices. *Information Sci.* **236** (2013), 205–217.
- [214] Petřík, M., Navara, M., Sarkoci, P.: Alternative proof of Mulholland’s theorem and new solutions to Mulholland inequality. In: *IEEE 43rd International Symposium on Multiple-Valued Logic*, Toyama, Japan, 346–351, 2013. DOI 10.1109/ISMVL.2013.1
- [215] Kuková, M., Navara, M.: Continuous t-norms and t-conorms satisfying the principle of inclusion and exclusion. In: H. Bustince, J. Fernandez, R. Mesiar, and T. Calvo (eds.), *Aggregation Functions in Theory and in Practise*, Springer, Heidelberg/New York/Dordrecht/London, 179–186, 2013.
- [216] Kuková, M., Navara, M.: What observables can be. In: R.K. Gubaidulina (ed.), *Theory of Functions, Its Applications, and Related Questions*, Transactions of the Mathematical Institute of N.I. Lobachevsky **46**, Kazan, 2013, 62–70, 2013.
- [217] Navara, M.: Fuzzy implications satisfying convexity relations. In: G. Pasi, J. Montero, and D. Ciucci (eds.), *Proceedings of the 8th conference of the European Society for Fuzzy Logic and Technology*, Atlantis Press, 187–192, 2013. doi:10.2991/eusflat.2013.33
- [218] Kuková, M., Navara, M.: Principles of inclusion and exclusion for fuzzy sets. *Fuzzy Sets Syst.* **232** (2013), 98–109. DOI 10.1016/j.fss.2013.02.014
- [219] Navara, M.: The role of symmetric difference in quantum structures. In: E.P. Klement, R. Mesiar, P. Struk (eds.), *Twelfth Int. Conf. Fuzzy Sets Theory Appl.*, Liptovský Ján, Slovak University of Technology in Bratislava, Slovakia, 88–89, 2014.
- [220] Navara, M.: Symmetric differences and probabilities. In: *Applications of Algebra 18*, Zakopane; Jan Długosz University, Częstochowa, Poland, 36–37, 2014.

- [221] Gagola, S., Gabriëls, J., Navara, M.: Identities valid in orthomodular lattices. In: *Biennial IQSA Conference Quantum Structures*, Olomouc, Czech Republic, 32–33, 2014.
- [222] Bikchentaev, A.M., Navara, M., Yakushev, R.: New results about symmetric difference in quantum structures. In: *Biennial IQSA Conference Quantum Structures*, Olomouc, Czech Republic, 71–72, 2014.
- [223] Navara, M., Matoušek, M., Drbohlav, O.: Fusion of telescopic and Doppler radar data. In: *Proceedings of the Advanced Maui Optical and Space Surveillance Technologies Conference*, Kihei, Hawaii, USA, 2014.
- [224] Bikchentaev, A.M., Navara, M., Yakushev, R.: Quantum logics of idempotents of unital rings. *Internat. J. Theoret. Phys.* **54** (2015), 1987–2000. DOI 10.1007/s10773-014-2405-1
- [225] Gagola, S., Gabriëls, J., Navara, M.: Weaker forms of associativity in orthomodular lattices. *Algebra Universalis* **73** (2015), 249–266. DOI 10.1007/s00012-015-0332-5
- [226] Navara, M.: Convex combinations of fuzzy logical operations. *Fuzzy Sets Syst.* **264** (2015), 51–63. DOI 10.1016/j.fss.2014.10.013
- [227] Gabriëls, J., Gagola, S., Navara, M.: New properties of Sasaki projections. In: S. Boffa, A. Di Nola et al., *Topology, Algebra, and Categories in Logic 2015*, Ischia, Italy, 107–109, 2015.
- [228] Turunen, E., Navara, M.: Infinitesimals and Pavelka logic. In: *International Joint Conference IFSA – EUSFLAT 2015*, Gijón, Asturias, Spain, 1–7, 2015.
- [229] Kuková, M., Navara, M.: Measures on interval-valued fuzzy sets and IF-sets and principle of inclusion and exclusion. In: M. Baczyński, B. de Baets, and R. Mesiar (eds.), *Proceedings of the 8th International Summer School on Aggregation Operators*, Katowice, Poland, 163–168, 2015.
- [230] Gagola, S., Gabriëls, J., Navara, M.: Associativity in orthomodular lattices. In: *Applications of Algebra 19*, Zakopane; Jan Długosz University, Częstochowa, Poland, 2015.
- [231] De Simone, A., Navara, M., Pták, P.: States on systems of sets that are closed under symmetric difference. *Math. Nachrichten* **288** (2015), 1995–2000. DOI 10.1002/mana.201500029
- [232] Navara, M.: Continuity and axioms of probability of fuzzy events. In: *Workshop on Effect Algebras, Boolean Algebras & Related Topics*, University of Udine, Italy, 2016. <http://digilander.libero.it/udine2016/abstracts.html>

- [233] Navara, M.: Axiomatic approach to probability of fuzzy events. In: B. De Baets, R. Mesiar, S. Saminger-Platz, and E.P. Klement (eds.), *Functional Equations and Inequalities*, Johannes Kepler University, Linz, Austria, 2016, 66–72.
- [234] Gabriëls, J., Gagola, S., Navara, M.: Operations in orthomodular lattices and the role of Sasaki projection. In: *Applications of Algebra 20*, Zakopane; Jan Długosz University, Częstochowa, Poland, 38–40, 2016.
- [235] Turunen, E., Navara, M.: Perfect Pavelka Logic. *Fuzzy Sets Syst.* **292** (2016), 396–410. DOI 10.1016/j.fss.2014.06.011
- [236] Bikchentaev, A.M., Navara, M.: States on symmetric logics: extensions. *Math. Slovaca* **66** (2016), no. 2, 359–366. DOI 10.1515/ms-2015-0141
- [237] Navara, M.: Structure of orthoalgebras. *Biennial Meeting of the International Quantum Structures Association “QS Leicester 2016”*, Leicester, 2016.
- [238] Navara, M.: MV-algebras and states on tribes. *Many-Valued Logic: Algebraic, Geometric and Computational Aspects*, Milano, 2016.
- [239] Gabriëls, J., Gagola, S., Navara, M.: Sasaki projection. *Algebra Universalis* **77** (2017), 305–320. DOI 10.1007/s00012-017-0428-1
- [240] Gabriëls, J., Gagola, S., Navara, M.: Sasaki projections and related operations. In: *Topology, Algebra, and Categories in Logic 2017*, Prague, 1–2, 2017.
- [241] Navara, M.: Pastings of orthostructures. In: *IQSA Meeting 2017*, Nijmegen, The Netherlands, 44–45, 2017.
- [242] Dibala, M., Navara, M.: Discrete copulas and maximal entropy principle. In: E. de Amo Artero, J. Fernández Sánchez, M. Úbeda Flores (eds.), *Copulas and Their Applications*, Almería, Spain, 24, 2017.
- [243] Navara, M., Navarová, M.: Principles of inclusion and exclusion for interval-valued fuzzy sets and IF-sets. *Fuzzy Sets Syst.* **324** (2017), 60–73. DOI 10.1016/j.fss.2016.08.009
- [244] Navara, M., Šindelář, J.: The role of information in the two envelope problem. In: J. Hlaváčová (ed.), *ITAT 2017: Information Technologies — Applications and Theory*, Martinské hole, Slovakia, 112–119, 2017.
- [245] Navara, M.: Orthoalgebras as pastings of Boolean algebras. *Internat. J. Theoret. Phys.*, **56** (2017), 4126–4132. DOI 10.1007/s10773-017-3479-3
- [246] Navara, M.: Generators of triangular norms and fuzzy implications. In: R. Mesiar, S. Saminger-Platz, P. Struk (eds.), *Fourteenth Int. Conf. Fuzzy Sets Theory Appl.*, Liptovský Ján, Slovak University of Technology in Bratislava, Slovakia, 74, 2018.

- [247] Navara, M., Šindelář, J.: Two envelope problem as a game of two players. In: *Applications of Algebra 22*, Zakopane; Jan Długosz University, Częstochowa, Poland, 31, 2018.
- [248] Harding, J., Heunen, Ch., Lindenhovius, B., Navara, M.: Boolean subalgebras of orthoalgebras. In : *15th International Conference on Quantum Physics and Logic*, 1–3, 2018.
- [249] Navara, M., Navarová, M.: Generalizations of the principle of inclusion and exclusion. In: *The 14th Biennial IQSA Conference Quantum Structures 2018*, Kazan, Russia, 59–60, 2018.
- [250] Navara, M., Pták, P.: Pseudocomplemented-like orthomodular posets. In: *The 14th Biennial IQSA Conference Quantum Structures 2018*, Kazan, Russia, 61, 2018.
- [251] Harding, J., Heunen, Ch., Lindenhovius, B., Navara, M.: Boolean subalgebras of orthomodular structures. In: *BLAST 2018*, University of Denver, Colorado, USA, 2018.
- [252] Navara, M.: Formulas for generators of R-implications. *Fuzzy Sets Syst.* **359** (2019), 80–89. DOI 10.1016/j.fss.2018.09.011
- [253] Navara, M., Šindelář, J.: Imperfect information as a source of non-symmetry in the two envelope problem. *International Journal of Approximate Reasoning* **112** (2019), 37–54. DOI 10.1016/j.ijar.2019.05.011
- [254] Harding, J., Heunen, Ch., Lindenhovius, B., Navara, M.: Boolean subalgebras of orthoalgebras. *Order* **36** (2019), 563–609. DOI 10.1007/s11083-019-09483-6
- [255] Navara, M., Petřík, M.: Computing generators of binary operations from partial derivatives. In: B. De Baets, L. Godo, I. Perfilieva, M. Reformat (eds.), *EUSFLAT 2019, Book of Abstracts*, University of Ostrava, 64–65, 2019.
- [256] Navara, M., Voráček, V.: Minimizing quantum structures with small spaces of measures. In: B. De Baets, L. Godo, I. Perfilieva, M. Reformat (eds.), *EUSFLAT 2019, Book of Abstracts*, University of Ostrava, 65, 2019.
- [257] Harding, J., Heunen, Ch., Lindenhovius, B., Navara, M.: New description of quantum structures. In: R. Mesiar, V. Novák, S. Saminger-Platz (eds.), *Fifteenth Int. Conf. Fuzzy Sets Theory Appl.*, Liptovský Ján, Slovak University of Technology in Bratislava, Slovakia, 40, 2020.
- [258] Navara, M., Petřík, M.: Generators of fuzzy logical operations. In: H.T. Nguyen, V. Kreinovich (eds.), *Algebraic Techniques and Their Use in Describing and Processing Uncertainty*, Studies in Computational Intelligence 878, Springer, 89–112, 2020. DOI 10.1007/978-3-030-38565-1_8

- [259] Hroch, M., Navara, M., Pták, P.: Quantum logics defined by divisibility conditions. *Internat. J. Theoret. Phys.* **60** (2021), 464–467. DOI 10.1007/s10773-018-3977-y
- [260] Navara, M., Voráček, V.: Quantum structures without group-valued measures. *Internat. J. Theoret. Phys.* **60** (2021), 687–695. DOI 10.1007/s10773-019-04058-y
- [261] Voráček, V., Navara, M.: Generalised Kochen–Specker Theorem in three dimensions. *Foundations of Physics* **51** (2021), 67. DOI 10.1007/s10701-021-00476-3
- [262] Navara, M., Pták, P.: On Frink ideals in orthomodular posets. *Order* **38** (2021), 245–249. DOI 10.1007/s11083-020-09537-0
- [263] Voráček, V., Navara, M.: Generalised Kochen–Specker Theorem in three dimensions. In: Dzhafarov, E.N., *The 4th Workshop: Quantum Contextuality in Quantum Mechanics and Beyond*, Purdue University, USA, 34, 2021.
- [264] Bejines López, C., Navara, M.: Description of maximal Archimedean t-norms on finite chains. In: R. Mesiar, M. Reformat, and M. Štěpnička (eds.), *IFSA – EUSFLAT 2021. Book of Abstracts*, Bratislava, Slovakia, 51, 2021.
- [265] Navara, M., Voráček, V.: Non-existence of hidden variables: Kochen–Specker constructions. In: A. Stupňanová, M. Dyba, V. Pavliska (eds.), *FSTA 2022 Book of Abstracts*, Liptovský Ján, Slovak University of Technology in Bratislava, Slovakia, 40–41, 2022.
- [266] Bejines López, C., Navara, M.: The Fibonacci sequence in the description of maximal discrete Archimedean t-norms. *Fuzzy Sets Syst.* **451** (2022), 94–112. DOI 10.1016/j.fss.2022.08.012
- [267] Houšková, K., Navara, M.: Relations between the shapes of triangular norms and their generators. In: F. Durante, S. Saminger–Platz, W. Trutschnig, T. Vetterlein (eds.), *Copulas. Theory and Applications*. 40th Linz Seminar on Fuzzy Set Theory, Johannes Kepler University, Linz, Austria, 42–46, 2023.
- [268] Burda, M., Navara, M., Štěpnička, M.: Criticism of the center of gravity defuzzification. In: Sebastia Massanet, Susana Montes, Daniel Ruiz-Aguilera and Manuel González-Hidalgo (eds.), *EUSFLAT 2023 and AGOP 2023. Book of Abstracts*. Palma, Spain, 2023, 20–21.
- [269] Navara, M., Ševic, J.: Maximum likelihood estimator of quantum probabilities. *Internat. J. Theoret. Phys.* **62**:214 (2023), 1–15. DOI 10.1007/s10773-023-05469-8

- [270] Navara, M., Voráček, V.: History of Kochen–Specker theorems. *Quantum Structures 2022*, Italy, 2022.
- [271] Navara, M., Svozil, K.: A novel form of contextuality predicting probabilistic equivalence between two sets of three mutually noncommuting observables. arxiv:2309.13091, submitted.