

Publikácie (*List of publications*)

Mgr. Andrea Zemánková, PhD.

Kapitoly vo vedeckých publikáciách – zahraničné (*chapters in foreign books*):

1. A. Mesiarová-Zemánková, Structure of Uninorms with Continuous Diagonal Functions. V: On Logical, Algebraic, and Probabilistic Aspects of Fuzzy Set Theory (S. Saminger, R. Mesiar, eds.), Knižná séria: Studies in Fuzziness and Soft Computing 336, Springer, 2016, pp. 109-135.
2. E.P. Klement, R. Mesiar, A. Mesiarová-Zemánková, S. Saminger, Logical connectives for granular computing. V: W. Pedrycz, A. Skowron, and V. Kreinovich, editors. Handbook of Granular Computing John Wiley & Sons, Chichester, 2008, pp. 205–224. (25%)
3. A. Mesiarová, Generators of triangular norms. V: Logical, Algebraic, Analytic, and Probabilistic Aspects of Triangular Norms (E. P. Klement and R. Mesiar, eds.), Elsevier, 2005, pp. 95-111.

Články v časopisoch v CC – zahraničné (*papers in foreign journals in CC*):

1. A. Mesiarová-Zemánková, Characterization of n -uninorms with continuous underlying functions via z -ordinal sum construction, International Journal of Approximate Reasoning 133 (2021), 60-79 (CC).
2. A. Mesiarová-Zemánková, Characterizing functions of n -uninorms with continuous underlying functions, IEEE Transactions on Fuzzy Systems, <https://doi.org/10.1109/TFUZZ.2021.3057231> (CC).
3. A. Mesiarová-Zemánková, Characterization of idempotent n -uninorms, Fuzzy Sets and Systems, <https://doi.org/10.1016/j.fss.2020.12.019> (CC).
4. A. Mesiarová-Zemánková, Convex combinations of uninorms and triangular subnorms, Fuzzy Sets and Systems, <https://doi.org/10.1016/j.fss.2020.10.011> (CC).
5. A. Mesiarová-Zemánková, Natural partial order induced by a commutative, associative and idempotent function, Information Sciences 545 (2021), 499-512 (CC).

6. A. Mesiarová-Zemánková, The n -uninorms with continuous underlying t-norms and t-conorms, *International Journal Of General Systems* 50(1) (2021), 92-116 (CC).
7. A. Mesiarová-Zemánková, S. Kelly, K. Ahmad, Bonferroni Mean with Weighted Interaction, *IEEE Transactions on Fuzzy Systems* 26(5) (2018), 3085-3096 (CC). (33%)
8. A. Mesiarová-Zemánková, Characterization of Uninorms With Continuous Underlying T-norm and T-conorm by Their Set of Discontinuity, *IEEE Transactions on Fuzzy Systems* 26(2)(2018), 705-714 (CC).
9. A. Mesiarová-Zemánková, Characterizing set-valued functions of uninorms with continuous underlying t-norm and t-conorm, *Fuzzy Sets and Systems* 334 (2018), 83-93 (CC).
10. A. Mesiarová-Zemánková, Uninorms continuous on $[0, e[{}^2 \cup]e, 1]^2$, *Information Sciences* 393(2017), 130-143 (CC).
11. A. Mesiarová-Zemánková, Characterization of uninorms with continuous underlying t-norm and t-conorm by means of the ordinal sum construction, *International Journal of Approximate Reasoning* 83(2017), 176-192 (CC).
12. A. Mesiarová-Zemánková, Continuous completions of triangular norms known on a subregion of the unit interval, *Fuzzy Sets and Systems* 308 (2017), 27-41 (CC).
13. A. Mesiarová-Zemánková, Ordinal sums of representable uninorms, *Fuzzy Sets and Systems* 308 (2017), 42-53 (CC).
14. A. Mesiarová-Zemánková, T-norms and t-conorms continuous around diagonals, *Fuzzy Sets and Systems* 299 (2016), 105-112 (CC).
15. A. Mesiarová-Zemánková, A note on decomposition of idempotent uninorms into an ordinal sum of singleton semigroups, *Fuzzy Sets and Systems* 299 (2016), 140-145 (CC).
16. A. Mesiarová-Zemánková, Ordinal sum construction for uninorms and generalized uninorms, *International Journal of Approximate Reasoning* 76 (2016), 1-17 (CC).
17. A. Mesiarová-Zemánková, M. Hyčko, Multi-capacities and multi-polar capacities, *Fuzzy Sets and Systems* 291 (2016), 18-32 (CC). (50%)
18. A. Mesiarová-Zemánková, Continuous additive generators of continuous, conditionally cancellative triangular subnorms, *Information Sciences* 339 (2016), 53-63 (CC).

19. A. Mesiarová-Zemánková, Decomposable and k -additive multi-capacities and multi-polar capacities, *Fuzzy Sets and Systems* 287(2016), 22-36 (CC).
20. A. Mesiarová-Zemánková, Sensitivity analysis of fuzzy rule-based classification systems by means of the Lipschitz condition, *Soft Computing* 20(1) (2016), 103-113 (CC).
21. A. Mesiarová-Zemánková, Multi-polar t-conorms and uninorms. *Information Sciences* 301 (2015), 227–240 (CC).
22. A. Mesiarová-Zemánková, M. Hyčko, Aggregation on Boolean multi-polar space: knowledge-based vs category-based ordering. *Information Sciences* 309 (2015), 163–179 (CC). (50%)
23. A. Mesiarová-Zemánková, K. Ahmad, Averaging operators in fuzzy classification systems, *Fuzzy Sets and Systems* 270 (2015), 53-73 (CC). (50%)
24. A. Mesiarová-Zemánková, Multi-polar aggregation operators in reasoning methods for fuzzy rule-based classification systems, *IEEE Transactions on Fuzzy Systems* 22(6) (2014), 1569–1584 (CC).
25. R. Ghiselli Ricci, R. Mesiar, A. Mesiarová-Zemánková, Lipschitz Triangular Subnorms. *Fuzzy Sets and Systems* 240 (2014), 51–65 (CC). (30%)
26. A. Mesiarová-Zemánková, K. Ahmad, Extended multi-polarity and multi-polar-valued fuzzy sets. *Fuzzy Sets and Systems* 234 (2014), 61–78 (CC). (50%)
27. A. Mesiarová-Zemánková, K. Ahmad, Multi-polar Choquet integral, *Fuzzy Sets and Systems* 220 (2013), 1–20 (CC). (50%)
28. A. Mesiarová-Zemánková, K. Ahmad, Differences between t-norms in Fuzzy Control, *International Journal of Intelligent Systems* 27 (2012), 662–679 (CC). (50%)
29. R. Mesiar, A. Mesiarová-Zemánková, The Ordered Modular Averages, *IEEE Transactions On Fuzzy Systems* 19(1) (2011), 42-50 (CC). (50%)
30. R. Mesiar, A. Mesiarová-Zemánková, K. Ahmad, Discrete Choquet integral and some of its symmetric extensions, *Fuzzy Sets and Systems* 184 (2011), 148–155 (CC). (33%)
31. A. Mesiarová-Zemánková, R. Mesiar, K. Ahmad, The balancing Choquet integral, *Fuzzy Sets and Systems* 161 (2010), 2243–2255 (CC). (33%)

32. A. Mesiarová-Zemánková, K. Ahmad, T-Norms in Subtractive Clustering and Backpropagation, *International Journal of Intelligent Systems* 25 (2010), 909-924 (CC). (50%)
33. A. Mesiarová-Zemánková, Ranks of additive generators, *Fuzzy Sets and Systems* 160 (2009), 2032–2048 (CC).
34. K.C. Maes, A. Mesiarová-Zemánková, Cancellativity properties for t-norms and t-subnorms, *Information Sciences* 179 (2009), 1221–1233 (CC). (50%)
35. R. Mesiar, A. Mesiarová-Zemánková, K. Ahmad, Level-Dependent Sugeno Integral, *IEEE Transactions on Fuzzy Systems* 17(1) (2009), 167-172 (CC). (33%)
36. R. Mesiar, A. Mesiarová, Fuzzy integrals - what are they? *International Journal of Intelligent Systems* 23 (2008), 199–212 (CC). (50%)
37. R. Mesiar, A. Mesiarová-Zemánková, Convex combinations of continuous t-norms with the same diagonal function, *J. Nonlinear Analysis* 69 (2008), 2851–2856 (CC). (50%)
38. A. Mesiarová-Zemánková, Semi-divisible triangular norms, *J. Soft Computing* 12 (2008), 535–542 (CC).
39. R. Mesiar, A. Mesiarová, Fuzzy integrals and linearity, *International Journal of Approximate Reasoning* 47 (2008), 352–358 (CC). (50%)
40. R. Mesiar, A. Mesiarová, L. Valášková, Basic Generated Universal Fuzzy Measures, *International Journal of Approximate Reasoning* 46 (2007) 447–457 (CC). (33%)
41. A. Mesiarová, k-lp-Lipschitz t-norms, *International Journal of Approximate Reasoning* 46 (2007) 596–604 (CC).
42. A. Mesiarová-Zemánková, Semi-divisible triangular norms on discrete scales, *Fuzzy Sets and Systems*, 158(22) (2007), 2510-2515 (CC).
43. A. Mesiarová, Approximation of k-Lipschitz t-norms by strict and nilpotent k-Lipschitz t-norms, *International Journal of General Systems* 36 (2) (2007), 205-218 (CC).
44. A. Mesiarová, Extremal k-Lipschitz t-conorms, *Int. J. Uncertain. Fuzziness Knowl.-Based Syst.* 14 (3) (2006), 247-257 (CC).
45. A. Mesiarová, H-transformation of t-norms, *Inform. Sci.* 176 (11) (2006), 1531-1545 (CC).

46. A. Mesiarová, The structure of n-contractive t-norms, *Internat. J. Gen. Systems* 34 (2005), 625-637 (CC).
47. R. Mesiar, A. Mesiarová, Residual implications and left-continuous t-norms, which are ordinal sums of semigroups, *Fuzzy Sets and Systems* 143 (1) (2004), 47-57 (CC). (50%)
48. A. Mesiarová, Continuous triangular subnorms, *Fuzzy Sets and Systems* 142 (2004), 75-83 (CC).
49. T. Calvo, A. Mesiarová, L. Valášková, Construction of aggregation operators - new composition method, *Kybernetika* 39 (2003), 643-650 (CC). (33%)

Články v časopisoch mimo CC – zahraničné (*papers in foreign journals outside CC*):

1. A. Mesiarová, A note on two open problems of Alsina, Frank and Schweizer, *Aequationes Math.*, 72 (1-2) (2006), 41-46. (Scopus)

Články v časopisoch mimo CC – domáce (*papers in national journals outside CC*):

1. A. Mesiarová, Wild t-norms, *J. Electrical Eng.* 12/S (2000), 36-40.
2. A. Mesiarová, Continuous diagonals of triangular norms, *J. Electrical Eng.* 10/S (2001), 7-12.

Práce v recenzovaných zborníkoch v databázach WOS/SCOPUS (*works in peer-reviewed proceedings from WOS/SCOPUS*):

1. A. Mesiarová-Zemánková, Extremal completions of triangular norms known on a subregion of the unit interval. (Proc. LNAI 2015) *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, Torra V., Narukawa T. (eds), 9321 (2015), Springer, 21-32.
2. A. Mesiarová-Zemánková, K. Ahmad, Multi-polar aggregation, In: *Advances in Computational Intelligence, Communications in Computer and Information Science (Proc. IPMU 2012) CCIS 299 (3) (2012)*, 379-387. ISSN: 1865-0929 (Print) 1865-0937, Springer, Berlin, Heidelberg (50%)
3. R. Mesiar, A. Mesiarová-Zemánková, Symmetrization of modular aggregation functions, In: *Computational Intelligence for Knowledge-Based Systems Design, Lecture Notes in Computer Science (Proc. IPMU 2010) Volume 6178 (2010)*,

- 390-397. ISBN: 978-3-642-14048-8 (Print) 978-3-642-14049-5, Springer, Berlin, Heidelberg (50%)
4. K. Ahmad, A. Mesiarová-Zemánková, Choosing t-Norms and t-Conorms for Fuzzy Controllers. Proc. Fourth International Conference on Fuzzy Systems and Knowledge Discovery, FSKD 2007, Haikou, China, Vol. 2, 2007, Article number: 4406155, pp. 641-646. ISBN: 978-0-7695-2874-8, IEEE (50%)
 5. A. Mesiarová, Lipschitz continuity of triangular norms, In: B. Reusch, ed., Computational Intelligence, Theory and Applications (Proc. 9th Fuzzy Days in Dortmund), Springer, Berlin, 2006, 309-321. ISSN: 1615-3871
 6. R. Mesiar, A. Mesiarová, L. Valášková, Generated universal fuzzy measures, Modeling Decisions for Artificial Intelligence (V. Torra, Y. Narukawa, A. Valls, J. Domingo-Ferrer, eds.), LNAI 3885, Springer, Berlin, 2006, pp. 191-202. ISSN: 0302-9743 (33%)
 7. R. Mesiar, A. Mesiarová, Fuzzy integrals, Modeling Decisions for Artificial Intelligence (V. Torra, and Y. Narukawa, eds.), LNAI 3131, Springer, Berlin, 2004, pp. 7-14. ISSN: 0302-9743 (50%)
 8. A. Mesiarová, Triangular norms and k-Lipschitz property, Proc. of 4th Conference of the European Society for Fuzzy Logic and Technology and 11th French Days on Fuzzy Logic and Applications, EUSFLAT-LFA 2005 Joint Conference (2005), Barcelona, Universidad Polytechnica de Catalunya 2005, ISBN 84-7653-872-3, pp. 922-926.

Práce v recenzovaných zborníkoch mimo databáz WOS/SCOPUS (*works in peer-reviewed proceedings outside WOS/SCOPUS*)

1. R. Mesiar, K. Ahmad, A. Mesiarová-Zemánková, Comonotone maxitivity and extended Sugeno integral. Proc. IPMU 2008: Information Processing and Management of Uncertainty, Malaga, Spain, 22nd-27th June 2008, pp. 1484-1489. (33%)
2. R. Mesiar, K. Ahmad, A. Mesiarová-Zemánková, Extensions of the Choquet integral and bipolar OWA operators, Proc. EUROFUSE 2009, September 16-18, Pamplona, Spain, pp. 161-165. (33%)
3. R. Mesiar, K. Ahmad, A. Mesiarová-Zemánková, Merging Choquet-integral – A new extension of Choquet integral to real inputs, Proc. AGOP 2009, July 6–10, Palma, Spain pp. 41-46. (33%)
4. A. Mesiarová-Zemánková, Triangular norms and semi-divisibility, Proc. AGOP'2007, Gent, 77-81.

5. R. Mesiar, A. Mesiarová, L. Valášková, Generator-based universal fuzzy measures and integrals, Proc. IPMU'2006, Paris, 2006, 1718-1723. (33%)
6. R. Ghiselli Ricci, R. Mesiar, A. Mesiarová, Lipschitzianity of triangular subnorms, Proc. IPMU'2006, Paris, 2006, pp. 671-677. (33%)
7. A. Mesiarová, Lipschitz aggregation operators, Proc. AGOP'2005, Lugano, 2005, pp. 89-92.
8. A. Mesiarová, Construction of t-norms based on an example of P. Hájek, Proc. IPMU'2004, Perugia, 2004, pp. 1099-1104.
9. A. Mesiarová, P. Viceník, Cancellative t-norms, Proc. EUSFLAT' 2003, Zittau, 2003, University of Applied Sciences at Zittau/Görlitz, Germany 2003, ISBN 3-9808089-4-7, pp. 289-291. (50%)
10. A. Mesiarová, J. Lazaro, Bipolar Aggregation operators, Proc. AGOP'2003, Alcalá de Henares, 2003, pp. 119-123. (50%)
11. T. Calvo, A. Mesiarová, L. Valášková, Composition of aggregation operators - one more new construction method, Proc. AGOP'2003, Alcalá de Henares, 2003, pp. 51-55. (33%)
12. A. Mesiarová, J. Mesiarová, n -contractive T-norms, Proc. IFSA' 2003, Istanbul, 2003, pp. 69-72. (50%)
13. A. Mesiarová, Continuous Archimedean t-subnorms and their generators, Proc. 10th Zittau East-West Fuzzy Colloquium, M. Wagwnknecht, N. Chaker, R. Hampel (eds.), vol. 1, Zittau, 2002, pp. 48-55.

Práce v nerecenzovaných zborníkoch (*works in proceedings - not peer-reviewed*):

1. A. Mesiarová, Triangular subnorms and residual implications, Proc. Of Abstracts of 24th Linz Seminar, Linz, 2003, pp. 36-44.

Abstrakty v konferenčných zborníkoch (*abstracts in conference proceedings*):

1. A. Mesiarová-Zemánková, Advances in multi-polar aggregation, Proc. of Abstracts of FSTA'2014, Liptovský Ján, 2014.

2. A. Mesiarová, k-lp stability of triangular norms, Proc. of Abstracts of ISCAM'2006, Bratislava, 2006.
3. A. Mesiarová, k-Lipschitz conjunctors Proc. of Abstracts of FSTA'2006, Liptovský Ján, 2006, pp. 78-79.
4. A. Mesiarová, k-Lipschitz t-norms and their generators, Proc. of Abstracts of ISCAM'2005, Bratislava, 2005.
5. A. Mesiarová, k-Lipschitz t-norms, Proc. Master and PhD Seminar FLLL/SCCH, Hagenberg, 2004.
6. A. Mesiarová, Transformation of T-norms Based on Hájek's Example, Proc. Of Abstracts of ISCAM'2004, Bratislava, 2004.
7. A. Mesiarová, Strong additive generators of t-norms Proc. Of Abstracts of FSTA'2004, Liptovský Ján, 2004, pp. 84-84.
8. A. Mesiarová, Strong generators and Cancellative t-norms, Proc. Master and PhD Seminar FLLL/SCCH, Hagenberg, 2003.
9. A. Mesiarová, n-contractive t-norms, Proc. Of Abstracts of ISCAM'2003, Bratislava, 2003.
10. A. Mesiarová, Residual implications, Proc. Master and PhD Seminar FLLL/SCCH, Hagenberg, 2003.
11. A. Mesiarová, Continuous Archimedean t-subnorms and their generators, Proc. Master and PhD Seminar FLLL/SCCH, Hagenberg, 2002.
12. A. Mesiarová, Triangular subnorms, Proc. Of Abstracts of SCAM'2002, Bratislava, 2002.
13. A. Mesiarová, Continuous diagonals of triangular norms, Proc. Of Abstracts of SCAM'2001, Bratislava, 2001.
14. A. Mesiarová, Wild t-norms, Proc. Of Abstracts of SCAM'2000, Bratislava, 2000.

Skriptá (*lecture notes*):

1. A. Zemánková, M. Komorníková: Riešenie úloh lineárneho programovania pomocou programu EXCEL. FM UK, Bratislava, 2008, 101 strán. (60%)