References

- [1] Bartoszuk, M., Beliakov, G., Gagolewski, M., James, S.: Fitting aggregation functions to data: Part I Linearization and regularization. In: Carvalho, J., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II, Communications in Computer and Information Science, vol. 611, pp. 767–779. Springer (2016)
- [2] Bartoszuk, M., Beliakov, G., Gagolewski, M., James, S.: Fitting aggregation functions to data: Part II Idempotization. In: Carvalho, J., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II, Communications in Computer and Information Science, vol. 611, pp. 780–789. Springer (2016)
- [3] Bartoszuk, M., Gagolewski, M.: A fuzzy R code similarity detection algorithm. In: Laurent, A., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part III, Communications in Computer and Information Science, vol. 444, pp. 21–30. Springer (2014)
- [4] Bartoszuk, M., Gagolewski, M.: Detecting similarity of R functions via a fusion of multiple heuristic methods. In: Alonso, J., Bustince, H., Reformat, M. (eds.) Proc. IFSA/EUSFLAT'15, pp. 419–426. Atlantis Press (2015)
- [5] Bartoszuk, M., Gagolewski, M.: Binary aggregation functions in software plagiarism detection. In: Proc. FUZZ-IEEE'17. IEEE (2017), in press, doi:10.1109/FUZZ-IEEE.2017.8015582
- [6] Beliakov, G., Gagolewski, M., James, S.: Penalty-based and other representations of economic inequality. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems 24(Suppl.1), 1–23 (2016)
- [7] Beliakov, G., Gagolewski, M., James, S., Pace, S., Pastorello, N., Thilliez, E., Vasa, R.: Measuring traffic congestion: An approach based on learning weighted inequality, spread and aggregation indices from comparison data. Applied Soft Computing (2017), in press, doi:10.1016/j.asoc.2017.07.014
- [8] Cena, A., Gagolewski, M.: OM3: Ordered maxitive, minitive, and modular aggregation operators Part I: Axiomatic analysis under arity-dependence. In: Bustince, H., et al. (eds.) Aggregation Functions in Theory and in Practise, Advances in Intelligent Systems and Computing, vol. 228, pp. 93–103. Springer (2013)
- [9] Cena, A., Gagolewski, M.: OM3: Ordered maxitive, minitive, and modular aggregation operators Part II: A simulation study. In: Bustince, H., et al. (eds.) Aggregation Functions in Theory and in Practise, Advances in Intelligent Systems and Computing, vol. 228, pp. 105–115. Springer (2013)
- [10] Cena, A., Gagolewski, M.: Aggregation and soft clustering of informetric data. In: Baczynski, M., De Baets, B., Mesiar, R. (eds.) Proc. 8th International Summer School on Aggregation Operators (AGOP 2015), pp. 79–84. University of Silesia, Katowice, Poland (2015)
- [11] Cena, A., Gagolewski, M.: Clustering and aggregation of informetric data sets. In: Computational methods in data analysis (Proc. ITRIA'15 vol. 1), pp. 5–26. Institute of Computer Science, Polish Academy of Sciences (2015)
- [12] Cena, A., Gagolewski, M.: A K-means-like algorithm for informetric data clustering. In: Alonso, J., Bustince, H., Reformat, M. (eds.) Proc. IFSA/EUSFLAT'15, pp. 536–543. Atlantis Press (2015)
- [13] Cena, A., Gagolewski, M.: OM3: Ordered maxitive, minitive, and modular aggregation operators Axiomatic and probabilistic properties in an arity-monotonic setting. Fuzzy Sets and Systems 264, 138–159 (2015)
- [14] Cena, A., Gagolewski, M.: Fuzzy k-minpen clustering and k-nearest-minpen classification procedures incorporating generic distance-based penalty minimizers. In: Carvalho, J., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II, Communications in Computer and Information Science, vol. 611, pp. 445–456. Springer (2016)
- [15] Cena, A., Gagolewski, M.: OWA-based linkage and the Genie correction for hierarchical clustering. In: Proc. FUZZ-IEEE'17. IEEE (2017), in press, doi:10.1109/FUZZ-IEEE.2017.8015652
- [16] Cena, A., Gagolewski, M., Mesiar, R.: Problems and challenges of information resources producers' clustering. Journal of Informetrics 9(2) (2015)

- [17] Coroianu, L., Gagolewski, M., Grzegorzewski, P.: Nearest piecewise linear approximation of fuzzy numbers. Fuzzy Sets and Systems 233, 26–51 (2013)
- [18] Coroianu, L., Gagolewski, M., Grzegorzewski, P., Adabitabar Firozja, M., Houlari, T.: Piecewise linear approximation of fuzzy numbers preserving the support and core. In: Laurent, A., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II, Communications in Computer and Information Science, vol. 443, pp. 244–254. Springer (2014)
- [19] Ferraro, M.B., Giordani, P., Vantaggi, B., Gagolewski, M., Gil, M.A., Grzegorzewski, P., Hryniewicz, O.: Soft Methods for Data Science, Advances in Intelligent Systems and Computing, vol. 456. Springer (2017)
- [20] Gagolewski, M.: A remark on limit properties of generalized h- and g- indices. Journal of Informetrics 3(4), 367–368 (2009)
- [21] Gagolewski, M.: Aggregation operators and their application in a formal model for quality evaluation system of scientific research (Wybrane operatory agregacji i ich zastosowanie w modelu formalnym systemu jakości w nauce). Ph.D. thesis, Systems Research Institute, Polish Academy of Sciences (2011), (In Polish)
- [22] Gagolewski, M.: Bibliometric impact assessment with R and the CITAN package. Journal of Informetrics 5(4), 678–692 (2011)
- [23] Gagolewski, M.: On the relation between effort-dominating and symmetric minitive aggregation operators. In: Greco, S., et al. (eds.) Advances in Computational Intelligence, Part III, Communications in Computer and Information Science, vol. 299, pp. 276–285. Springer (2012)
- [24] Gagolewski, M.: On the relationship between symmetric maxitive, minitive, and modular aggregation operators. Information Sciences 221, 170–180 (2013)
- [25] Gagolewski, M.: Scientific impact assessment cannot be fair. Journal of Informetrics 7(4), 792–802 (2013)
- [26] Gagolewski, M.: Statistical hypothesis test for the difference between Hirsch indices of two Paretodistributed random samples. In: Kruse, R., et al. (eds.) Synergies of Soft Computing and Statistics for Intelligent Data Analysis, Advances in Intelligent Systems and Computing, vol. 190, pp. 359–367. Springer (2013)
- [27] Gagolewski, M.: CITAN: CITation Analysis toolpack (2014), http://CRAN.R-project.org/package=CITAN
- [28] Gagolewski, M.: Programowanie w języku R. Analiza danych, obliczenia, symulacje. Wydawnictwo Naukowe PWN, Warszawa (2014)
- [29] Gagolewski, M.: Data Fusion: Theory, Methods, and Applications. Institute of Computer Science, Polish Academy of Sciences, Warsaw, Poland (2015)
- [30] Gagolewski, M.: Normalized WD_pWAM and WD_pOWA spread measures. In: Alonso, J., Bustince, H., Reformat, M. (eds.) Proc. IFSA/EUSFLAT'15, pp. 210–216. Atlantis Press (2015)
- [31] Gagolewski, M.: Some issues in aggregation of multidimensional data. In: Baczynski, M., De Baets, B., Mesiar, R. (eds.) Proc. 8th International Summer School on Aggregation Operators (AGOP 2015), pp. 127–132. University of Silesia, Katowice, Poland (2015)
- [32] Gagolewski, M.: Spread measures and their relation to aggregation functions. European Journal of Operational Research 241(2), 469–477 (2015)
- [33] Gagolewski, M.: Sugeno integral-based confidence intervals for the theoretical h-index. In: Grzegorzewski, P., et al. (eds.) Strengthening Links Between Data Analysis and Soft Computing, Advances in Intelligent Systems and Computing, vol. 315, pp. 233–240. Springer (2015)
- [34] Gagolewski, M.: Programowanie w języku R. Analiza danych, obliczenia, symulacje. Wydawnictwo Naukowe PWN, Warszawa (2016)
- [35] Gagolewski, M.: Penalty-based aggregation of multidimensional data. Fuzzy Sets and Systems 325, 4–20 (2017)
- [36] Gagolewski, M., Bartoszuk, M., Cena, A.: Genie: A new, fast, and outlier-resistant hierarchical clustering algorithm. Information Sciences 363, 8–23 (2016)
- [37] Gagolewski, M., Bartoszuk, M., Cena, A.: Przetwarzanie i analiza danych w języku Python. Wydawnictwo Naukowe PWN, Warszawa (2016)

- [38] Gagolewski, M., Caha, J.: FuzzyNumbers: Tools to deal with fuzzy numbers in R (2017), http://cran.r-project.org/package=FuzzyNumbers, doi:10.5281/zenodo.15677
- [39] Gagolewski, M., Cena, A.: agop: Aggregation operators and preordered sets in R (2014), http://agop.rexamine.com
- [40] Gagolewski, M., Cena, A., Bartoszuk, M.: Hierarchical clustering via penalty-based aggregation and the Genie approach. In: Torra, V., et al. (eds.) Modeling Decisions for Artificial Intelligence, Lecture Notes in Artificial Intelligence, vol. 9880, pp. 191–202. Springer (2016)
- [41] Gagolewski, M., Dębski, M., Nowakiewicz, M.: Efficient algorithm for computing certain graph-based monotone integrals: The l_p -indices. In: Mesiar, R., Bacigal, T. (eds.) Proc. Uncertainty Modeling, pp. 17–23. STU Bratislava (2013)
- [42] Gagolewski, M., Grzegorzewski, P.: A geometric approach to the construction of scientific impact indices. Scientometrics 81(3), 617–634 (2009)
- [43] Gagolewski, M., Grzegorzewski, P.: Possible and necessary h-indices. In: Carvalho, J.P., et al. (eds.) Proc. IFSA/EUSFLAT'09, pp. 1691–1695. IFSA (2009)
- [44] Gagolewski, M., Grzegorzewski, P.: Arity-monotonic extended aggregation operators. In: Hüllermeier, E., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems, Communications in Computer and Information Science, vol. 80, pp. 693–702. Springer (2010)
- [45] Gagolewski, M., Grzegorzewski, P.: Metody i problemy naukometrii. In: Rowiński, T., Tadeusiewicz, R. (eds.) Psychologia i informatyka. Synergia i kontradykcje, pp. 103–125. Wyd. UKSW, Warszawa (2010)
- [46] Gagolewski, M., Grzegorzewski, P.: S-statistics and their basic properties. In: Borgelt, C., et al. (eds.) Combining Soft Computing and Statistical Methods in Data Analysis, Advances in Intelligent and Soft Computing, vol. 77, pp. 281–288. Springer (2010)
- [47] Gagolewski, M., Grzegorzewski, P.: Axiomatic characterizations of (quasi-) L-statistics and S-statistics and the Producer Assessment Problem. In: Galichet, S., et al. (eds.) Proc. EUSFLAT/LFA'11, pp. 53–58. Atlantis Press (2011)
- [48] Gagolewski, M., Grzegorzewski, P.: Possibilistic analysis of arity-monotonic aggregation operators and its relation to bibliometric impact assessment of individuals. International Journal of Approximate Reasoning 52(9), 1312–1324 (2011)
- [49] Gagolewski, M., James, S.: Fitting symmetric fuzzy measures for discrete Sugeno integration. In: Kacprzyk, J., et al. (eds.) Advances in Fuzzy Logic and Technology 2017, Advances in Intelligent Systems and Computing, vol. 642, pp. 104–116. Springer (2018)
- [50] Gagolewski, M., Lasek, J.: Learning experts' preferences from informetric data. In: Alonso, J., Bustince, H., Reformat, M. (eds.) Proc. IFSA/EUSFLAT'15, pp. 484–491. Atlantis Press (2015)
- [51] Gagolewski, M., Lasek, J.: The use of fuzzy relations in the assessment of information resources producers' performance. In: Proc. 7th IEEE International Conference Intelligent Systems IS'2014, Vol. 2: Tools, Architectures, Systems, Applications, Advances in Intelligent Systems and Computing, vol. 323, pp. 289–300. Springer (2015)
- [52] Gagolewski, M., Mesiar, R.: Aggregating different paper quality measures with a generalized h-index. Journal of Informetrics 6(4), 566-579 (2012)
- [53] Gagolewski, M., Mesiar, R.: Monotone measures and universal integrals in a uniform framework for the scientific impact assessment problem. Information Sciences 263, 166–174 (2014)
- [54] Gagolewski, M., Tartanus, B.: R package stringi: Character string processing facilities (2015), http://stringi.rexamine.com/, doi:10.5281/zenodo.12594
- [55] Grzegorzewski, P., Gagolewski, M., Bobecka-Wesołowska, K.: Wnioskowanie statystyczne z wykorzystaniem środowiska R. Biuro ds. Projektu "Program Rozwojowy Politechniki Warszawskiej", Warszawa (2014)
- [56] Grzegorzewski, P., Gagolewski, M., Hryniewicz, O., Ángeles Gil, M.: Strengthening Links Between Data Analysis and Soft Computing, Advances in Intelligent Systems and Computing, vol. 315. Springer (2015)

- [57] Lasek, J., Gagolewski, M.: Estimation of tournament metrics for association football league formats. In: Selected problems in information technologies (Proc. ITRIA'15 vol. 2), pp. 67–78. Institute of Computer Science, Polish Academy of Sciences (2015)
- [58] Lasek, J., Gagolewski, M.: The winning solution to the AAIA'15 Data Mining Competition: Tagging firefighter activities at a fire scene. In: Ganzha, M., Maciaszek, L., Paprzycki, M. (eds.) Proc. FedCSIS'15, pp. 375–380. IEEE (2015)
- [59] Lasek, J., Szlavik, Z., Gagolewski, M., Bhulai, S.: How to improve a team's position in the FIFA ranking A simulation study. Journal of Applied Statistics 43(7), 1349–1368 (2016)
- [60] Mesiar, R., Gagolewski, M.: H-index and other Sugeno integrals: Some defects and their compensation. IEEE Transactions on Fuzzy Systems 24(6), 1668–1672 (2016)
- [61] Żogała Siudem, B., Siudem, G., Cena, A., Gagolewski, M.: Agent-based model for the bibliometric h-index Exact solution. European Physical Journal B 89(21) (2016)