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## References

- [1] Abbasbandy, S., Amirfakhrian, M.: The nearest trapezoidal form of a generalized left right fuzzy number. International Journal of Approximate Reasoning 43(2), 166–178 (2006)
- [2] Abbasbandy, S., Hajjari, T.: Weighted trapezoidal approximation Preserving cores of a fuzzy number. Computers & Mathematics with Applications 59(9), 3066–3077 (2010)
- [3] Abellanas, M., Claverol, M., Hurtado, F.: Point set stratification and Delaunay depth. Computational Statistics & Data Analysis 51, 2513–2530 (2007)
- [4] Abelson, H., Sussman, G., Sussman, J.: Struktura i interpretacja programów komputerowych. WNT, Warszawa (2002)
- [5] Abraham, C., Biau, G., Cadre, B.: Simple estimation of the mode of a multivariate density. The Canadian Journal of Statistics / La Revue Canadienne de Statistique 31(1), 23–34 (2003)
- [6] Abramovitz, M., Stegun, I.A.: Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables. National Bureau of Standards Applied Mathematics Series (1972)
- [7] Abramowitz, M., Stegun, I.A.: Handbook of mathematical functions. Dover, New York (1972), http://www.iopb.res.in/~somen/abramowitz\_and\_stegun/
- [8] Abreu, J., Rico-Juan, J.: A new iterative algorithm for computing a quality approximate median of strings based on edit operations. Pattern Recognition Letters 36, 74–80 (2014)
- [9] Achiezer, N.: Teoria aproksymacji. PWN, Warszawa (1957)
- [10] Aczel, A.: Complete Business Statistics. Irvin (1996)
- [11] Aczél, J.: On mean values. Bulletin of the American Mathematical Society 54(4), 392–400 (1948)
- [12] Afsari, B.: Riemannian  $l^p$  center of mass: Existence, uniqueness, and convexity. Proceedings of the American Mathematical Society 139, 655–673 (2011)
- [13] Afsari, B., Tron, R., Vidal, R.: On the convergence of gradient descent for finding the Riemannian center of mass. SIAM Journal of Control and Optimization 51(3), 2230–2260 (2013)
- [14] Aftab, K., Hartley, R., Trumpf, J.: Generalized Weiszfeld algorithms for Lq optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence 37(4), 728–745 (2015)
- [15] Aggarwal, C.C., Hinneburg, A., Keim, D.A.: On the surprising behavior of distance metrics in high dimensional space. Lecture Notes in Computer Science 1973, 420–434 (2001)
- [16] Aggarwal, C.C., Hinneburg, A., Keimn, D.A.: On the surprising behavior of distance metric in highdimensional space. Lecture Notes in Computer Science 1973, 420–434 (2001)
- [17] Ahn, B.S.: Preference relation approach for obtaining OWA operators weights. International Journal of Approximate Reasoning 47(2), 166–178 (2008)
- [18] Ahn, B.S.: Parameterized OWA operator weights: An extreme point approach. International Journal of Approximate Reasoning 51(7), 820–831 (2010)
- [19] Aho, A., Garey, M., Ullman, J.: The transitive reduction of a directed graph. SIAM Journal on Computing 1(2), 131–137 (1972)
- [20] Aho, A., Sethi, R., Ullman, J.: Kompilatory. Reguly, metody i narzędzia. WNT, Warszawa (2002)
- [21] Alatalo, R.: Problems in the measurement of evenness in ecology. Oikos 37, 199–204 (1981)
- [22] Alonso, J.M., Castiello, C., Mencar, C.: Interpretability of fuzzy systems: Current research trends and prospects. In: Kacprzyk, J., Pedrycz, W. (eds.) Springer Handbook of Computational Intelligence, pp. 219–237. Springer, Berlin, Heidelberg (2015)
- [23] Alonso, S., Cabrerizo, F.J., Herrera-Viedma, E., Herrera, F.: h-index: A review focused on its variants, computation and standardization for different scientific fields. Journal of Informetrics 3, 273–289 (2009)

- [24] Alonso, S., Cabrerizo, F.J., Herrera-Viedma, E., Herrera, F.: hg-index: A new index to characterize the scientific output of researchers based on the h- and g-indices. Scientometrics 82(2), 391–400 (2010)
- [25] Aloupis, G.: Geometric measures of data depth. In: DIMACS Series in Discrete Mathematics and Theoretical Computer Science, pp. 147–158 (2006)
- [26] Aloupis, G., Cortés, C., Gómez, F., Soss, M., Toussaint, G.: Lower bounds for computing statistical depth. Computational Statistics & Data Analysis 40, 223–229 (2002)
- [27] Aloupis, G., Langerman, S., Soss, M., Toussaint, G.: Algorithms for bivariate medians and a Fermat-Torricelli problem for lines. Computational Geometry: Theory and Applications 26(1), 69–79 (2003)
- [28] Aloupis, G., McLeish, E.: A lower bound for computing Oja depth. Information Processing Letters 96, 151–153 (2005)
- [29] Altman, A.: The axiomatic approach to ranking systems. Ph.D. thesis, Israel Institute of Technology, Haifa, Izrael (2007)
- [30] Altman, A., Tennenholtz, M.: Ranking systems: The PageRank axioms. In: Proc. 6th ACM Conf. on Electronic Commerce (2005)
- [31] Anderson, D., Keller, J., Havens, T.: Learning fuzzy-valued fuzzy measures for the fuzzy-valued Sugeno fuzzy integral. Lecture Notes in Artificial Intelligence 6178, 502–511 (2010)
- [32] Anderson, E., et al.: LAPACK Users' Guide (1999), sIAM. Available on-line at http://www.netlib.org/lapack/lug/lapack lug.html
- [33] Anderson, T.R., Hankin, R.K.S., Killworth, P.D.: Beyond the Durfee square: Enhancing the h-index to score total publication output. Scientometrics 69(3), 577–588 (2008)
- [34] Angelov, P., Yager, R.R.: Density-based averaging A new operator for data fusion. Information Sciences 222, 163–174 (2013)
- [35] Angelov, P., Yager, R.: Density-based averaging: A new operator for data fusion. Information Sciences 222(Supplement C), 163–174 (2013)
- [36] Aristondo, O., García-Lapresta, J., Lasso de la Vega, C., Marques Pereira, R.: Classical inequality indices, welfare and illfare functions, and the dual decomposition. Fuzzy Sets and Systems 228, 114–136 (2013)
- [37] Arnold, B.C.: Pareto and generalized pareto distributions. In: Economic Studies in Equality, Social Exclusion and Well-Being, pp. 119–145. Springer (2008)
- [38] Arrow, K.J.: A difficulty in the concept of social welfare. Journal of Political Economy 58(4), 328–346 (1950)
- [39] Arrow, K.J.: Social Choice and Individual Values. Yale University Press, New Haven (1963)
- [40] Arunachalam, S.: Citation analysis: Do we need a thoeory? Scientometrics 43(1), 141–142 (1998)
- [41] Atanassov, K.T.: Intuitionistic fuzzy sets. Fuzzy Sets and Systems 20, 87–96 (1986)
- [42] Atanassov, K.: Intuitionistic Fuzzy Sets. Physica-Verlag, Heidelberg, New York (1999)
- [43] Auda, G., Kamel, M.: Modular neural networks: A survey. International Journal of Neural Systems 9(2), 129–151 (1999)
- [44] Bååth, R.: The state of naming conventions in R. The R Journal 4(2), 74–75 (2012)
- [45] Baczyński, M., Jayaram, B.: Fuzzy implications. Springer-Verlag, Berlin (2008)
- [46] Baczyński, M., Jayaram, B.: (S, N)- and R-implications: A state-of-the-art survey. Fuzzy Sets and Systems 159(14), 1836–1859 (2008)
- [47] Bahlmann, C.: Directional features in online handwriting recognition. Pattern Recognition 39(1), 115–125 (2006)
- [48] Baldi, P., Brunak, S.: Bioinformatics: The Machine Learning Approach. MIT Press (2001)
- [49] Ball, P.: Index aims for fair ranking of scientists. Nature 436, 900 (2005)

- [50] Ban, A., Brândaş, A., Coroianu, L., Negruţiu, C., Nica, O.: Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value. Computers & Mathematics with Applications 61(5), 1379–1401 (2011)
- [51] Ban, A.I.: Approximation of fuzzy numbers by trapezoidal fuzzy numbers preserving the expected interval. Fuzzy Sets and Systems 159, 1327–1344 (2008)
- [52] Ban, A.I.: On the nearest parametric approximation of a fuzzy number revisited. Fuzzy Sets and Systems 160, 3027–3047 (2009)
- [53] Ban, A.I.: Triangular and parametric approximations of fuzzy numbers Inadvertences and corrections. Fuzzy Sets and Systems 160(21), 3048–3058 (2009)
- [54] Ban, A.I., Ban, O.I.: Optimization and extensions of a fuzzy multicriteria decision making method and applications to selection of touristic destinations. Expert Systems with Applications 39(8), 7216–7225 (2012)
- [55] Ban, A.I., Coroianu, L.: Nearest interval, triangular and trapezoidal approximation of a fuzzy number preserving ambiguity. International Journal of Approximate Reasoning 53(5), 805–836 (2012)
- [56] Ban, A.I., Coroianu, L.: Simplifying the search for effective ranking of fuzzy numbers. IEEE Transactions on Fuzzy Systems 23, 327–339 (2015)
- [57] Ban, A.I., Coroianu, L., Grzegorzewski, P.: Trapezoidal approximation and aggregation. Fuzzy Sets and Systems 177(1), 45–59 (2011)
- [58] Ban, A.I., Coroianu, L., Grzegorzewski, P.: A fixed-shape fuzzy median of a fuzzy sample. In: Proc. EUSFLAT'13. pp. 215–222. Atlantis Press (2013)
- [59] Ban, A.I., Coroianu, L., Khastan, A.: Conditioned weighted L–R approximations of fuzzy numbers. Fuzzy Sets and Systems 283, 56–82 (2016)
- [60] Baneyx, A.: Publish or Perish as citation metrics used to analyze scientific output in the humanities: International case studies in economics, geography, social sciences, philosophy, and history. Archivum Immunologiae et Therapia Experimentalis 56, 363–371 (2008)
- [61] Banks, M.G.: An extension of the Hirsch index: Indexing scientific topics and compounds. Scientometrics 69(1), 161–168 (2006)
- [62] Bar-Ilan, J.: H-index for price medalists revisited. ISSI Newsletter 2(1), 3-5 (2006)
- [63] Bar-Ilan, J.: Informetrics at the beginning of the 21st century A review. Journal of Informetrics 2, 1–52 (2008)
- [64] Barabási, A., Newman, M., Watts, D.: The Structure and Dynamics of Networks. Princeton University Press (2006)
- [65] Barcza, K., Telcs, A.: Paretian publication patterns imply Paretian Hirsch index. Scientometrics 81(2), 513–519 (2009)
- [66] Bargiela, A., Pedrycz, W.: Granular Computing: An Introduction. Kluwer Academic Publishers, Boston, MA (2003)
- [67] Barnett, G.A., Fink, E.L., Debus, M.B.: Mathematical model of academic citation age. Communication research 4(16), 510–531 (1989)
- [68] Barra, J.: Matematyczne podstawy statystyki. PWN, Warszawa (1982)
- [69] Bartłomiejczyk, L., Drewniak, J.: A characterization of sets and operations invariant under bijections. Æquationes Mathematicæ 68, 1–9 (2004)
- [70] Bartneck, C., Kokkelmans, S.: Detecting h-index manipulation through self-citation analysis. Scientometrics 87, 85–98 (2011)
- [71] 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)

- [72] 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)
- [73] 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)
- [74] 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)
- [75] Bartoszuk, M., Gagolewski, M.: Binary aggregation functions in software plagiarism detection. In: Proc. FUZZ-IEEE'17, pp. 1–6. IEEE (2017)
- [76] Bassett, Jr., G.W.: Equivariant, monotonic, 50% breakdown estimators. The American Statistician 45(2), 135–137 (1991)
- [77] Basu, A.: A note on the connection between the Hirsch index and the Random Hierarchical model. ISSI Newsletter 3(2), 24–27 (2007)
- [78] Batista, P.D., Campiteli, M.G., Kinouchi, O., Martinez, A.S.: Is it possible to compare researchers with different scientific interests? Scientometrics 68(1), 179–189 (2006)
- [79] Becker, R., Chambers, J., Wilks, A.: The New S Language. Chapman & Hall (1998), "The Blue Book"
- [80] Beckman, R., Cook, R.: Outlier....s. Technometrics 25(2), 119–149 (1983)
- [81] Bedall, F.K., Zimmermann, H.: Algorithm AS 143: The Mediancentre. Journal of the Royal Statistical Society. Series C (Applied Statistics) 28(3), 325–328 (1979)
- [82] Bednarek, A.: An extension of Light's associativity test. American Mathematical Monthly 75(5), 531–532 (1968)
- [83] Beirlant, J., Glänzel, W., Carbonez, A., Leemans, H.: Scoring research output using statistical quantile plotting. Journal of Informetrics 1, 185–192 (2007)
- [84] Beliakov, G.: Shape preserving approximation using least squares splines. Approximation Theory and its Applications 16(4), 80–98 (2000)
- [85] Beliakov, G.: Monotone approximation of aggregation operators using least squares splines. International Journal of Uncertainty, Fuzziness and Knowledge-based Systems 10, 659–676 (2002)
- [86] Beliakov, G.: How to build aggregation operators from data. International Journal of Intelligent Systems 18, 903–923 (2003)
- [87] Beliakov, G.: Learning weights in the generalized OWA operators. Fuzzy Optimization and Decision Making 4, 119–130 (2005)
- [88] Beliakov, G.: Monotonicity preserving approximation of multivariate scattered data. BIT Numerical Mathematics 45, 653–677 (2005)
- [89] Beliakov, G.: Construction of aggregation operators for automated decision making via optimal interpolation and global optimization. Journal of Industrial and Management Optimization 3(2), 193–208 (2007)
- [90] Beliakov, G.: Construction of aggregation functions from data using linear programming. Fuzzy Sets and Systems 160, 65–75 (2009)
- [91] Beliakov, G.: Fast computation of trimmed means. Journal of Statistical Software 39, Code snippet 2 (2011)
- [92] Beliakov, G., Bustince, H., Calvo, T.: A Practical Guide to Averaging Functions. Springer (2016)
- [93] Beliakov, G., Bustince, H., James, S., Calvo, T., Fernandez, J.: Aggregation for Atanassov's intuitionistic and interval valued fuzzy sets: The median operator. IEEE Transactions on Fuzzy Systems 20, 487–498 (2011)

- [94] Beliakov, G., Calvo, T., James, S.: On penalty-based aggregation functions and consensus. In: Herrera-Viedma, E., et al. (eds.) Consensual Processes, STUDFUZZ 267, pp. 23–40 (2011)
- [95] Beliakov, G., Calvo, T., James, S.: Aggregating fuzzy implications to measure group consensus. In: Proc. Joint IFSA World Congress and NAFIPS Annual Meeting'13, pp. 1016–1021. Edmonton, Canada (2013)
- [96] Beliakov, G., Calvo, T., James, S.: Consensus measures constructed from aggregation functions and fuzzy implications. Knowledge-Based Systems 55, 1–8 (2014)
- [97] Beliakov, G., Calvo, T., Wilkin, T.: Three types of monotonicity of averaging functions. Knowledge-Based Systems 72, 114–122 (2014)
- [98] Beliakov, G., Calvo, T., Wilkin, T.: On the weak monotonicity of Gini means and other mixture functions. Information Sciences 300, 70–84 (2015)
- [99] 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)
- [100] Beliakov, G., Gagolewski, M., James, S.: Least median of squares (LMS) and least trimmed squares (LTS) fitting for the weighted arithmetic mean. In: Medina, J., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems. Theory and Foundations, pp. 367–378. Springer (2018)
- [101] 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 67, 910–919 (2019), doi:10.1016/j.asoc.2017.07.014
- [102] Beliakov, G., James, S.: Using Choquet integrals for kNN approximation and classification. In: Proc. FUZZ-IEEE'08, pp. 1311–1317 (2008)
- [103] Beliakov, G., James, S.: Citation-based journal ranks: The use of fuzzy measures. Fuzzy Sets and Systems 167, 101–119 (2011)
- [104] Beliakov, G., James, S.: Using linear programming for weights identification of generalized Bonferroni means in R. Lecture Notes in Computer Science 7647, 35–44 (2012)
- [105] Beliakov, G., James, S.: Stability of weighted penalty-based aggregation functions. Fuzzy Sets and Systems 226(1), 1–18 (2013)
- [106] Beliakov, G., James, S.: A penalty-based aggregation operator for non-convex intervals. Knowledge-Based Systems 70, 335–344 (2014)
- [107] Beliakov, G., James, S.: Unifying approaches to consensus across different preference representations. Applied Soft Computing 35, 888–897 (2015)
- [108] Beliakov, G., James, S., Nimmo, D.: Can indices of ecological evenness be used to measure consensus? In: Proc. IEEE Intl. Conf. Fuzzy Systems'15, pp. 1–8. Beijing, China (2014)
- [109] Beliakov, G., James, S., Nimmo, D.: Using aggregation functions to model human judgments of species diversity. Information Sciences 306, 21–33 (2015)
- [110] Beliakov, G., James, S., Smith, L.: Single-preference consensus measures based on models of ecological evenness. Lecture Notes in Artificial Intelligence 8825, 50–59 (2014)
- [111] Beliakov, G., Pradera, A., Calvo, T.: Aggregation functions: A guide for practitioners. Springer-Verlag (2007)
- [112] Beliakov, G., Warren, J.: Appropriate choice of aggregation operators in fuzzy decision support systems. IEEE Transactions on fuzzy systems 9(6), 773–784 (2001)
- [113] Beliakov, G., Wilkin, T.: On some properties of weighted averaging with variable weights. Information Sciences 281, 1–7 (2014)
- [114] Bellosta, C.J.G.: ADGofTest: Anderson-Darling GoF test (2009), http://CRAN.R-project.org/package=ADGofTest, R package version 0.1
- [115] Benjamini, Y., Hochberg, Y.: Controlling False Discovery Rate: A practical and powerful approach to multiple testing. Journal of the Royal Statistical Society. Series B 57(1), 289–300 (1995)

- [116] Bermudez, P.Z., Kotz, S.: Parameter estimation of the Generalized Pareto Distribution. Part II. Journal of Statistical Planning and Inference 140(6), 1374–1388 (2010)
- [117] Bernasconi, M., Choirat, C., Seri, R.: Empirical properties of group preference aggregation methods employed in AHP: Theory and evidence. European Journal of Operational Research 232, 584–592 (2014)
- [118] Berntsen, J., Espelid, T., Genz, A.: An adaptive algorithm for the approximate calculation of multiple integrals. ACM Transactions on Mathematical Software 17(4), 437–451 (1991)
- [119] Berson, T.A.: Differential cryptanalysis mod 2<sup>32</sup> with applications to MD5. Lecture Notes in Computer Science 658, 71–80 (1993)
- [120] Bertoluzza, C., Corral, N., Salas, A.: On a new class of distances between fuzzy numbers. Mathware and Soft Computing 2, 71–84 (1995)
- [121] Beyer, K., Goldstein, J., Ramakrishnan, R., Shaft, U.: When is nearest neighbor meaningful? In: Beeri, C., Buneman, P. (eds.) Proc. ICDT, pp. 217–235. Springer-Verlag (1998)
- [122] Bezdek, J.C.: Pattern Recognition with Fuzzy Objective Function Algorithms. Springer (1981)
- [123] Bezdek, J.C., Spillman, B., Spillman, R.: Fuzzy relation spaces for group decision theory: An application. Fuzzy Sets and Systems 2, 5–14 (1979)
- [124] Bickel, P., Doksum, K.: Mathematical Statistics: Basic Ideas and Selected Topics. Holden-Day (1977)
- [125] Bickel, P., Lehmann, E.: Descriptive statistics for nonparametric models. I. Introduction. II. Location. The Annals of Statistics 3, 1039–1069 (1975)
- [126] Bickel, P., Lehmann, E.: Descriptive statistics for nonparametric models. III. Dispersion. The Annals of Statistics 4(6), 1139–1158 (1975)
- [127] Bickel, P., Lehmann, E.: Descriptive statistics for nonparametric models. IV. Spread. In: Jureckova, A. (ed.) Contributions to Statistics, pp. 33–40. Academia, Prague (1975)
- [128] Biecek, P.: Przewodnik po pakiecie R. GiS, Wrocław (2011)
- [129] Biecek, P.: Analiza danych z programem R. Modele liniowe z efektami stałymi, losowymi i mieszanymi. PWN, Warszawa (2012)
- [130] Bilenko, M., Mooney, R., Cohen, W., Ravikumar, P., Fienberg, S.: Adaptive name matching in information integration. IEEE Intelligent Systems 18(5), 16–23 (2003)
- [131] Billard, L., Diday, E.: From the statistics of data to the statistics of knowledge: Symbolic data analysis. Journal of the American Statistical Association 98(462), 470–486 (2003)
- [132] Bille, P.: A survey on tree edit distance and related problems. Theoretical Computer Science 337(1–3), 217–239 (2005)
- [133] Billingsley, P.: Probability and Measure. Wiley (1979)
- [134] Billingsley, P.: Prawdopodobieństwo i miara. PWN, Warszawa (2009)
- [135] Birkhoff, G.: Lattice Theory. American Mathematical Society, Providence, RI (1967)
- [136] Bisschop, J., et al.: AIMMS Optimization Modeling. Paragon Decision Technology (2012)
- [137] B.J. Oommen, R.L.: Pattern recognition of strings with substitutions, insertions, deletions and generalized transpositions. Pattern Recognition 30, 789–800 (1997)
- [138] Blizard, W.D.: Multiset theory. Notre Dame Journal of Formal Logic 30(1), 36–66 (1989)
- [139] Bloch, I.: Information combination operators for data fusion: A comparative review with classification. IEEE Transactions on Systems, Man, and Cybernetics Part A: Systems and Humans 26(1), 52–67 (1996)
- [140] Bloomfield, P., Steiger, W.L.: Least Absolute Deviations. Theory, applications, and algorithms. Birkhäuser, Boston, Basel, Stuttgart (1983)
- [141] Blum, M., Floyd, R.W., Pratt, V., Rives, R.L., Tarjan, R.E.: Time bounds for selection. Journal of Computer and System Sciences 7(4), 448–460 (1973)

- [142] Bock, H.H.: Origins and extensions of the k-means algorithm in cluster analysis. Electronic Journ@l for History of Probability and Statistics 4(2), 1–18 (2008)
- [143] Bock, H.H., Diday, E.: Analysis of Symbolic Data. Springer (2000)
- [144] Bodenhofer, U., de Baets, B., Fodor, J.: A compendium of fuzzy weak orders: Representations and constructions. Fuzzy Sets and Systems 158, 811–829 (2007)
- [145] Bodenhofer, U.: A similarity-based generalization of fuzzy orderings. Ph.D. thesis, Jonannes Kepler University, Linz, Austria (1999)
- [146] Bodjanova, S.: Median value and median interval of a fuzzy number. Information Sciences 172, 73–89 (2005)
- [147] Boell, S.K., Wilson, C.S.: Journal Impact Factors for evaluation scientific performance: Use of h-like indicators. Scientometrics 82, 613–626 (2010)
- [148] Bollen, J., Rodriguez, M.A., van de Sompel, H.: Journal status. Scientometrics 69(3), 669–687 (2006)
- [149] Bonferroni, C.: Elementi di statistica generale. Libreria Seber, Firenze (1930)
- [150] Bonitz, M.: Ten years of Matthew effect for countries. Scientometrics 64(3), 375–379 (2005)
- [151] Bonnett, X., Shine, R., Lourdais, O.: Taxonomic chauvinism. TRENDS in Ecology and Evolution 21(4), 1–3 (2002)
- [152] Bookstein, A.: Implications of ambiguity for scientometric measurement. Journal of the American Society for Information Science and Technology 52(1), 74–79 (2001)
- [153] Boomsma, W., Mardia, K., Taylor, C., Ferkinghoff-Borg, J., Krogh, A., Hamelryck, T.: A generative, probabilistic model of local protein structure. Proceedings of the National Academy of Sciences 105(26), 8932–8937 (2008)
- [154] Bornmann, L., Daniel, H.D.: Convergent validation of peer review decisions using the h index. Extent of and reasons for type I and type II errors. Journal of Informetrics 1, 204–213 (2007)
- [155] Bornmann, L., Daniel, H.D.: What do we know about the h index? Journal of the American Society for Information Science and Technology 58(9), 1381–1385 (2007)
- [156] Bornmann, L., Daniel, H.D.: What do citation counts measure? A review of studies on citing behavior. Journal of Documentation 64(1), 45–80 (2008)
- [157] Bornmann, L., Daniel, H.D.: The state of h index research. EMBO Reports 10(1), 2–5 (2009)
- [158] Bornmann, L., Mutz, R., Daniel, H.D.: The b index as a measure of scientific excellence. A promising supplement to the h index. Cybermetrics 11(1) (2007)
- [159] Bornmann, L., Mutz, R., Daniel, H.D.: Latent Markov modeling applied to grant peer review. Journal of Informetrics 2(3), 217–228 (2008)
- [160] Borovskikh, Y.V.: Nonuniform estimation of rate of convergence for L-statistics. Ukrainian Mathematical Journal 33(2), 127–132 (1981)
- [161] Borovskikh, Y.V., Weber, N.C.: Asymptotic distributions for a class of generalized L-statistics. Bernoulli 16(4), 1177–1190 (2010)
- [162] Borsik, J., Doboš, J.: On a product of metric spaces. Mathematica Slovaca 31, 193–205 (1981)
- [163] Bortot, S., Marques Pereira, R.A.: The binomial Gini inequality indices and the binomial decomposition of welfare functions. Fuzzy Sets and Systems 255, 92–114 (2014)
- [164] Bortot, S., Marques Pereira, R.: On a new poverty measure constructed from the exponential mean. In: Proc. IFSA/EUSFLAT'15, pp. 333–340. Atlantis Press (2015)
- [165] Bottema, O.: Het begrip "merkwaardig" met betrekking tot punten in de driehoeksmeetkunde. Nieuw Tijdschr. Wisk. 69, 2–7 (1981)
- [166] Boucher, C., Ma, B.: Closest string with outliers. BMC Bioinformatics 12, S55 (2011)

- [167] Boussou, D., Perny, P.: Ranking methods for valued preference relations: A characterization of a method based on leaving and entering flows. European Journal of Operational Research 61(1-2), 186-194 (1992)
- [168] Bouyssou, D.: Ranking methods based on valued preference relations: A characterization of the net flow method. European Journal of Operational Research 60(1), 61–67 (1992)
- [169] Bouyssou, D., Marchant, T.: Consistent bibliometric rankings of authors and of journals. Journal of Informetrics 4, 365–378 (2010)
- [170] Bouyssou, D., Marchant, T.: Bibliometric rankings of journals based on Impact Factors: An axiomatic approach. Journal of Informetrics 5, 75–86 (2011)
- [171] Bouyssou, D., Marchant, T.: Ranking scientists and departments in a consistent manner. Journal of the American Society for Information Science and Technology 62(9), 1761–1769 (2011)
- [172] Boyack, K.W., Klavans, R., Börner, K.: Mapping the backbone of science. Scientometrics 64(3), 351–374 (2005)
- [173] Boyd, S., Vandenberghe, L.: Convex Optimization. Cambridge University Press (2009)
- [174] Boytsov, L.: Indexing methods for approximate dictionary searching: Comparative analyses. ACM Journal of Experimental Algorithmics 16, 1–86 (2011)
- [175] Bras-Amorós, M., Domingo-Ferrer, J., Torra, V.: A bibliometric index based on the collaboration distance between cited and citing authors. Journal of Informetrics 5(2), 248–264 (2011)
- [176] Braun, T., Glänzel, W., Schubert, A.: A Hirsch-type index for journals. Scientometrics 69(1), 169–173 (2006)
- [177] Bravington, M.: Debugging without (too many) tears. R News 3(3), 29–32 (2003)
- [178] Breiman, L.: Random forests. Machine Learning 45, 5–32 (2001)
- [179] Breiman, L., Friedman, J.H., Olshen, R.A., Stone, C.J.: Classification and Regression Trees. Brooks/Cole Publishing, Monterey (1984)
- [180] Bremner, D., Chen, D., Iacono, J., Langerman, S., Morin, P.: Output-sensitive algorithms for Tukey depth and related problems. Statistics and Computing 18(3), 259–266 (2008)
- [181] Brent, R.: Algorithms for minimization without derivatives. Prentice-Hall (1973)
- [182] Brezis, H.: Functional analysis, Sobolev spaces and partial differential equations. Springer (2010)
- [183] Brimberg, J.: The Fermat-Weber location problem revisited. Mathematical Programming 71, 71–76 (1995)
- [184] Brimberg, J., Love, R.F.: Global convergence of a generalized iterative procedure for the minisum location problem with  $l_p$  distances. Operations Research 41(6), 1153–1163 (1993)
- [185] Brin, S.: Near neighbor search in large metric spaces. In: Proc. Intl. Conf. Very Large Data Bases, pp. 574–584. Morgan Kaufmann (1995)
- [186] Brin, S.: Near neighbor search in large metric spaces. In: In Proceedings of the 21th International Conference on Very Large Data Bases, pp. 574–584. Morgan Kaufmann Publishers (1995)
- [187] Broadus, R.N.: Early approaches to bibliometrics. Journal of the American Society for Information Science 38(2), 127–129 (1987)
- [188] Brönnimann, H., Melquiond, G., Pionc, S.: The design of the Boost interval arithmetic library. Theoretical Computer Science 351(1), 111–118 (2006)
- [189] Bronselaer, A., De Tré, G.: Aspects of object merging. In: Proc. NAFIPS'10, pp. 1–6. IEEE, Toronto, ON (2010)
- [190] Bronselaer, A., Szymczak, M., Zadrożny, S., De Tré, G.: Dynamical order construction in data fusion. Information Fusion 27, 1–18 (2016)
- [191] Brown, B.: Statistical uses of the spatial median. Journal of the Royal Statistical Society. Series B (Methodological) 45(1), 25–30 (1983)

- [192] Brumback, R.A.: Impact Factor Wars: Episode V The Empire strikes back. Journal of Child Neurology 24(3), 260–262 (2009)
- [193] Brunelli, M., Mezei, J.: How different are ranking methods for fuzzy numbers? a numerical study. International Journal of Approximate Reasoning 54, 627–639 (2013)
- [194] Buchholz, K.: Criteria for the analysis of scientific quality. Scientometrics 32(2), 195–218 (1995)
- [195] Bulla, L.: An index of evenness and its associated diversity measure. Oikos 70, 167–171 (1994)
- [196] Bullen, P.: Handbook of Means and Their Inequalities. Springer Science+Business Media, Dordrecht (2003)
- [197] Bunke, H.: On a relation between graph edit distance and maximum common subgraph. Pattern Recognition Letters 18(8), 689–694 (1997)
- [198] Bunke, H., Riesen, K.: Recent advances in graph-based pattern recognition with applications in document analysis. Pattern Recognition 44(5), 1057–1067 (2011)
- [199] Bunke, H., Shearer, K.: A graph distance metric based on the maximal common subgraph. Pattern Recognition Letters 19(3–4), 255–259 (1998)
- [200] Burrell, Q.L.: A simple linear model for linked informetric processes. Information Processing & Management 28(5), 637–645 (1992)
- [201] Burrell, Q.L.: The Kolmogorov-Smirnov test and rank-frequency distributions. Journal of the American Society for Information Science 45(1), 59 (1994)
- [202] Burrell, Q.L.: Stochastic modelling of the first-citation distribution. Scientometrics 52(1), 3–12 (2001)
- [203] Burrell, Q.L.: Predicting future citation behavior. Journal of the American Society for Information Science and Technology 54(5), 372–378 (2003)
- [204] Burrell, Q.L.: Are "sleeping beauties" to be expected? Scientometrics 65(3), 381–389 (2005)
- [205] Burrell, Q.L.: The use of Lotka functions and systematic sampling. Scientometrics 67(2), 323–325 (2006)
- [206] Burrell, Q.L.: Hirsch index of Hirsch rate? Some thoughts arising from Liang's data. Scientometrics 73(1), 19–28 (2007)
- [207] Burrell, Q.L.: Hirsch's h-index: A stochastic model. Journal of Informetrics 1, 16–25 (2007)
- [208] Burrell, Q.L.: On the h-index, the size of the Hirsch core and Jin's A-index. Journal of Informetrics 1, 170-177 (2007)
- [209] Burrell, Q.L.: Extending Lotkaian informetrics. Information Processing & Management 44, 1794–1807 (2008)
- [210] Burrell, Q.L.: The publication/citation process at the micro level: A case study. In: Kretschmer, H., Havemann, F. (eds.) Proc. WIS 2008, 4th Intl. Conf. Webometrics, Informetrics and Scientometrics & 9th COLLNET Meeting. Berlin (2008)
- [211] Burrell, Q.L.: Some comments on "The estimation of lost multi-copy documents: A new type of informetrics theory" by Egghe and Proot. Journal of Informetrics 2, 101–105 (2008)
- [212] Burrell, Q.L.: On Hirsch's h, Egghe's g and Kosmulski's h(2). Scientometrics 79(1), 323-325 (2009)
- [213] Bustince, H., Barrenechea, E., Pagola, M.: Relationship between restricted dissimilarity functions, restricted equivalence functions and normal  $e_N$ -functions: Image thresholding invariant. Pattern Recognition Letters 29(4), 525–536 (2008)
- [214] Bustince, H., Barrenechea, E., Calvo, T., James, S., Beliakov, G.: Consensus in multi-expert decision making problems using penalty functions defined over a cartesian product of lattices. Information Fusion 17, 56–64 (2014)
- [215] Bustince, H., Beliakov, G., Dimuro, G.P., Bedregal, B., Mesiar, R.: On the definition of penalty functions in data aggregation. Fuzzy Sets and Systems 323, 1–18 (2017)
- [216] Bustince, H., Fernandez, J., Kolesárová, A., Mesiar, R.: Fusion functions and directional monotonicity. Communications in Computer and Information Science 444, 262–268 (2014)

- [217] Bustince, H., Fernandez, J., Kolesárová, A., Mesiar, R.: Directional monotonicity of fusion functions. European Journal of Operational Research 244(1), 300–308 (2015)
- [218] Bustince, H., Fernandez, J., Mesiar, R., Pradera, A., Beliakov, G.: Restricted dissimilarity functions and penalty functions. In: Galichet, S., et al. (eds.) Proc. Eusflat/LFA'11, pp. 79–85 (2011)
- [219] Byrd, R.H., Nocedal, J., Schnabel, R.B.: Representations of quasi-Newton matrices and their use in limited memory methods. Mathematical Programming 63(4), 129–156 (1994)
- [220] Byrd, R., Lu, P., Nocedal, J.: A limited memory algorithm for bound constrained optimization. SIAM Journal on Scientific and Statistical Computing 16, 1190–1208 (1995)
- [221] Báez-Sánchez, A., Moretti, A., Rojas-Medar, M.: On polygonal fuzzy sets and numbers. Fuzzy Sets and Systems 209, 54–65 (2012)
- [222] Cabrerizo, F., Alonso, S., I.J.Pérez, Herrera-Viedma, E.: On consensus measures in fuzzy group decision making. Lecture Notes in Artificial Intelligence 5285, 86–97 (2008)
- [223] Calvo, T., Beliakov, G.: Aggregation functions based on penalties. Fuzzy Sets and Systems 161, 1420–1436 (2010)
- [224] Calvo, T., Kolesárová, A., Komorníková, M., Mesiar, R.: Aggregation operators: Properties, classes and construction methods. In: Calvo et al. [226], pp. 3–104
- [225] Calvo, T., Mayor, G.: Remarks on two types of extended aggregation functions. Tatra Mountains Mathematical Publications 16, 235–253 (1999)
- [226] Calvo, T., Mayor, G., Mesiar, R. (eds.): Aggregation operators. New trends and applications, Studies in Fuzziness and Soft Computing, vol. 97. Physica-Verlag, New York (2002)
- [227] Calvo, T., Mayor, G., Torrens, J., Suner, J., Mas, M., Carbonell, M.: Generation of weighting triangles associated with aggregation functions. International Journal of Uncertainty, Fuzziness and Knowledgebased Systems 8(4), 417–451 (2000)
- [228] Calvo, T., Mesiar, R., Yager, R.R.: Quantitative weights and aggregation. IEEE Transactions on Fuzzy Systems 12(1), 62–69 (2004)
- [229] Camargo, J.: Must dominance increase with the number of subordinate species in competitive interactions? Journal of Theoretical Biology 161(4), 537–542 (1993)
- [230] Campello, R.J.G.B., Moulavi, D., Zimek, A., Sander, J.: Hierarchical density estimates for data clustering, visualization, and outlier detection. ACM Transactions on Knowledge Discovery from Data 10(1), 5:1–5:51 (2015)
- [231] Carbonell, M., Mas, M., Mayor, G.: On a class of monotonic extended owa operators. In: Proc. 6th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'97), vol. 3, pp. 1695–1700. IEEE, Barcelona, Spain (1997)
- [232] Cardin, M.: Aggregation functionals on complete lattices. In: Galichet, S., et al. (eds.) Proc. Eusflat/LFA'11, pp. 86–89 (2011)
- [233] Cardin, M., Couceiro, M.: Invariant functionals on completely distributive lattices. Fuzzy Sets and Systems 167(1), 45–56 (2011)
- [234] Carlsson, C., Fulléer, R., Majlender, P.: Additions of completely correlated fuzzy numbers. In: Proc. FUZZ-IEEE'04. pp. 535–539. IEEE, Budapest, Hungary (2004)
- [235] Carlsson, C., Fullér, R.: On possibilistic mean value and variance of fuzzy numbers. Fuzzy Sets and Systems 122, 315–326 (2001)
- [236] Caruana, R., et al.: Intelligible models for HealthCare: Predicting pneumonia risk and hospital 30-day readmission. In: Proc. KDD'15, pp. 1721–1730. ACM, Sydney, Australia (2015)
- [237] Castagnoli, G., Bräuer, S., Herrmann, M.: Optimization of cyclic redundancy-check codes with 24 and 32 parity bits. IEEE Transactions on Communications 41(6), 883–892 (1993)

- [238] 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)
- [239] 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)
- [240] 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)
- [241] 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)
- [242] 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)
- [243] 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)
- [244] 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)
- [245] Cena, A., Gagolewski, M.: OWA-based linkage and the Genie correction for hierarchical clustering. In: Proc. FUZZ-IEEE'17, pp. 1–6. IEEE (2017)
- [246] Cena, A., Gagolewski, M., Mesiar, R.: Problems and challenges of information resources producers' clustering. Journal of Informetrics 9(2) (2015)
- [247] Cervone, D.P., et al.: Voting with rubber bands, weights, and strings. Mathematical Social Sciences 64, 11–27 (2012)
- [248] Chakerian, G., Ghandehari, M.: The Fermat problem in Minkowski spaces. Geometriæ Dedicata 17, 227–238 (1985)
- [249] Chakraborty, B., Chaudhuri, P.: On a transformation and re-transformation technique for constructing an affine equivariant multivariate median. Proceedings of the American Mathematical Society 124(8), 2539–2547 (1996)
- [250] Chakravarty, S.: Ethical Social Index Numbers. Springer-Verlag, New York (1990)
- [251] Chambers, J.: Programming with Data. Springer-Verlag (1998), "The Green Book"
- [252] Chambers, J.: Software for Data Analysis. Programming with R. Springer-Verlag (2008)
- [253] Chambers, J., Hastie, T.: Statistical Models in S. Chapman & Hall (1992), "The White Book"
- [254] Chan, T.M.: Optimal output-sensitive convex hull algorithms in two and three dimensions. Discrete and Computational Geometry 16, 361–368 (1996)
- [255] Chan, T.M.: An optimal randomized algorithm for maximum Tukey depth. In: Proc. 15th ACM-SIAM Symp. Discrete Algorithms (SODA), pp. 430–436 (2004)
- [256] Chanas, S.: On the interval approximation of a fuzzy number. Fuzzy Sets and Systems 122, 353–356 (2001)
- [257] Chandrasekaran, R., Tamir, A.: Open questions concerning Weiszfeld's algorithm for the Fermat-Weber location problem. Mathematical Programming 44, 293–295 (1989)
- [258] Chandrashekar, G., Sahin, F.: A survey on feature selection methods. Computers & Electrical Engineering 40(1), 16–28 (2014)

- [259] Chang, H., Yeung, D.: Robust path-based spectral clustering. Pattern Recognition 41(1), 191–203 (2008)
- [260] Chaudhuri, P., Sengupta, D.: Sign tests in multidimension: Inference based on the geometry of the data cloud. Journal of the American Statistical Association 88(424), 1363–1370 (1993)
- [261] Chavent, M., Saracco, J.: Central tendency and dispersion measures for intervals and hypercubes. Communications in Statistics Theory and methods 37, 1471–1482 (2008)
- [262] Chavez, E., Navarro, G., Baeza-Yates, R., Marroquin, J.L.: Searching in metric spaces. ACM Computing Surveys 33(3), 273–321 (2001)
- [263] Chazelle, B.: An optimal convex hull algorithm in any fixed dimension. Discrete and Computational Geometry 10(1), 377–409 (1993)
- [264] Chen, C.T.: Extensions of the TOPSIS for group decision-making under fuzzy environment. Fuzzy Sets and Systems 114(1), 1–9 (2000)
- [265] Chen, S.J., Hwang, C.L.: Fuzzy Multiple Attribute Decision Making: Methods and Applications. Springer, Berlin, Heidelberg (1992)
- [266] Chen, Y.S., Leimkuhler, F.F.: A relationship between Lotka's law, Bradford's law, and Zipf's law. Journal of the American Society for Information Science 37(5), 307–314 (1986)
- [267] Chen, Y.L., Cheng, L.C.: Mining maximum consensus sequences from group ranking data. European Journal of Operational Research 198, 241–251 (2009)
- [268] Chen, Z.Z., Wang, L.: Fast exact algorithms for the closest string and substring problems with application to the planted (l, d) motif model. IEEE/ACM Transactions on Computational Biology and Bioinformatics 8(5), 1400–1410 (2011)
- [269] Cheney, E.: Introduction to Approximation Theory. McGraw-Hill (1966)
- [270] Cheng, Y., Liu, N.C.: A first approach to the classification of the top 500 world universities by their disciplinary characteristics using scientometrics. Scientometrics 68(1), 135–150 (2006)
- [271] Chenouri, S., Small, C.G.: A nonparametric multivariate multisample test based on data depth. Electronic Journal of Statistics 6, 760–782 (2012)
- [272] Chiclana, F., Tapia García, J., del Moral, M., Herrera-Viedma, E.: A statistical comparative study of different similarity measures of consensus in group decision making. Information Sciences 221, 110–123 (2013)
- [273] Chimani, M., Woste, M., Böcker, S.: A closer look at the closest string and closest substring problem. In: Proc. 13th Workshop Algorithm Engineering and Experiments (ALENEX'2011), pp. 13–24 (2011)
- [274] Chin, F.Y., Deng, X., Fang, Q., Zhu, S.: Approximate and dynamic rank aggregation. Theoretical Computer Science 325(3), 409–424 (2004)
- [275] Choquet, G.: Theory of capacities. Annales de l'institut Fourier 5, 131–295 (1954)
- [276] Choulakian, V., Stephens, M.A.: Goodness-of-fit tests for the Generalized Pareto Distribution. Technometrics 43(4), 478–484 (2001)
- [277] Chwałkowski, R.: Typografia typowej książki. Helion, Gliwice (2001)
- [278] Clarkson, J.A.: Uniformly convex spaces. Transactions of the American Mathematical Society 40, 396–414 (1936)
- [279] Clopper, C., Pearson, E.: The use of confidence or fiducial limits illustrated in the case of the binomial. Biometrika 26, 404–413 (1934)
- [280] Colomer, J.M. (ed.): Handbook of Electoral System Choice. Palgrave Macmillan, London (2004)
- [281] Contini, S., Steinfeld, R., Pieprzyk, J., , Matusiewicz, K.: A critical look at cryptographic hash function literature. In: ECRYPT Hash Workshop, 2007 (2007)
- [282] Conway, J.H., Sloane, N.J.A.: Sphere Packings, Lattices and Groups. Springer-Verlag, New York (1998)

- [283] Coppersmith, D., Fleischer, L., Rudra, A.: Ordering by weighted number of wins gives a good ranking for weighted tournaments. In: Proc. 17th Annual ACM-SIAM Symp. Discrete Algorithms (SODA'06), pp. 776–782 (2006)
- [284] Coroianu, L.: Best Lipschitz constant of the trapezoidal approximation operator preserving the expected interval. Fuzzy Sets and Systems 165(1), 81–97 (2011)
- [285] Coroianu, L.: Lipschitz functions and fuzzy number approximations. Fuzzy Sets and Systems 200, 116–135 (2012)
- [286] Coroianu, L.: Fuzzy Approximation Operators. Ph.D. thesis, Babeș-Bolyai University, Cluj-Napoca, Romania (2013)
- [287] Coroianu, L.: Necessary and sufficient conditions for the equality of the interactive and non-interactive sums of two fuzzy numbers. Fuzzy Sets and Systems 283, 40–55 (2016)
- [288] Coroianu, L., Fullér, R.: On multiplication of interactive fuzzy numbers. In: Proc. IEEE Intl. Symp. Intelligent Systems and Informatics (SISY'13). pp. 181–185 (2013)
- [289] Coroianu, L., Gagolewski, M., Grzegorzewski, P.: Nearest piecewise linear approximation of fuzzy numbers. Fuzzy Sets and Systems 233, 26–51 (2013)
- [290] 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)
- [291] Coroianu, L., Gal, S.G., Bede, B.: Approximation of fuzzy numbers by max-product Bernstein operators. Fuzzy Sets and Systems 257, 41–66 (2014)
- [292] da Costa Pereira, C., Dragoni, M., Pasi, G.: Multidimensional relevance: Prioritized aggregation in a personalized Information Retrieval setting. Information Processing & Management 48(2), 340–357 (2012)
- [293] Costas, R., van Leeuwen, T., Bordons, M.: A bibliometric classificatory approach for the study and assessment of research performance at the individual level: The effects of age on productivity and impact. Journal of the American Society for Information Science and Technology 61, 1564–1581 (2010)
- [294] Costas, R., Bordons, M.: The h-index: Advantages, limitations and its relation with other bibliometric indicators at the micro level. Journal of Informetrics 1, 193–203 (2007)
- [295] Costas, R., Bordons, M.: Is g-index better than h-index? An exploratory study at the individual level. Scientometrics 77(2), 267–288 (2008)
- [296] Couceiro, M., Marichal, J.L.: Characterizations of discrete Sugeno integrals as polynomial functions over distributive lattices. Fuzzy Sets and Systems 161, 694–707 (2010)
- [297] Craig, A.T., Hogg, R.V.: Intorudtion to Mathematical Statistics. Macmillan Publishing Co., Inc., New York (1978)
- [298] Cramér, H.: Mathematical methods of statistics. Princeton University Press, Princeton (1946)
- [299] Crawley, M.: Statistics: An Introduction Using R. John Wiley & Sons (2005)
- [300] Crawley, M.: The R Book. John Wiley & Sons (2007)
- [301] Cronin, B.: Metatheorizing citation. Scientometrics 43(1), 45–55 (1998)
- [302] Ćwik, J., Mielniczuk, J.: Statystyczne systemy uczące się. Ćwiczenia w oparciu o pakiet R. OW Politechniki Warszawskiej, Warszawa (2009)
- [303] Czogała, E., Drewniak, J.: Associative monotonic operations in fuzzy set theory. Fuzzy Sets and Systems 12, 249–269 (1984)
- [304] Dalgaard, P.: Introductory Statistics with R. Springer-Verlag (2008)
- [305] Damerau, F.J.: A technique for computer detection and correction of spelling errors. Communications of the ACM 7(3), 171–176 (1964)

- [306] d'Angelo, C.A., Giuffrida, C., Abramo, G.: A heuristic approach to author name disambiguation in bibliometric databases for large-scale research assessments. Journal of the American Society for Information Science and Technology 62(2), 257–269 (2011)
- [307] Daniels, H., Velikova, M.: Monotone and partially monotone neural networks. IEEE Transactions on Neural Networks 21(6), 906–917 (2010)
- [308] Dantzig, G.: Linear Programming and Extensions. Princeton University Press, Princeton (1963)
- [309] DasGupta, A.: Asymptotic theory of statistics and probability. Springer-Verlag, New York (2008)
- [310] Dasgupta, M., Deb, R.: Transitivity and fuzzy preferences. Social Choice and Welfare 13, 305–318 (1996)
- [311] Datta, A., Sen, S., Zick, Y.: Algorithmic transparency via quantitative input influence. In: Proc. 37th IEEE Symposium on Security and Privacy, pp. 598–617 (2016)
- [312] David, H.A., Nagaraja, H.N.: Order statistics. Wiley (2003)
- [313] Davis, M., Whistler, K., Scherer, M.: Unicode Technical Standard #10, Unicode Collation Algorithm (revision 30) (2014), http://www.unicode.org/reports/tr10/tr10-30.html
- [314] Davis, P.M.: Reward or persuasion? The battle to define the meaning of a citation. Learned Publishing 21, 5–11 (2009)
- [315] De Baets, B.: Aggregation 2.0 (2013), plenary lecture slides, 7th International Summer School on Aggregation Operators (AGOP'13), Pamplona, Spain, July 16, 2013.
- [316] De Baets, B.: A monometric-based approach to data aggregation (2017), plenary lecture slides, 9th International Summer School on Aggregation Operators (AGOP'17), Skövde, Sweden, June 2017.
- [317] De Baets, B., Mesiar, R.: Triangular norms on product lattices. Fuzzy Sets and Systems 104, 61–75 (1999)
- [318] De Cooman, G., Kerre, E.: Order norms on bounded partially ordered sets. Journal of Fuzzy Mathematics 2, 281–310 (1994)
- [319] de Finetti, B.: Sul significato soggettivo della probabilitá. Fundamenta Mathematicæ 17, 298–329 (1931)
- [320] Dean, J., Ghemawat, S.: MapReduce: Simplified data processing on large clusters. In: Proc. Operating System Design and Implementation (OSDI). pp. 137–150. San Francisco, CA (2004)
- [321] Decký, M., Mesiar, R., Stupňanová, A.: Deviation-based aggregation functions. Fuzzy Sets and Systems (2017), in press, doi:10.1016/j.fss.2017.03.016
- [322] Deineko, V.G., Woeginger, G.J.: A new family of scientific impact measures: The generalized Kosmulski-indices. Scientometrics 80(3), 819–826 (2009)
- [323] del Amo, A., Montero, J., Molina, E.: Representation of recursive rules. European Journal of Operational Research 130, 29–53 (2001)
- [324] del Castillo, J., Daoudi, J.: Estimation of the Generalized Pareto Distribution. Statistics and Probability Letters 79, 684–688 (2009)
- [325] Delgado, M., Verdegay, J., Vila, M.: On aggregation operations of linguistic labels. International Journal of Intelligent Systems 8(3), 351–370 (1993)
- [326] Delgado, M., Vila, M., Voxman, W.: On a canonical representation of a fuzzy number. Fuzzy Sets and Systems 93, 125–135 (1998)
- [327] Dementiev, R., Kettner, L., Sanders, P.: STXXL: Standard Template Library for XXL data sets. Tech. Rep. 2005/18, Fakultät für Informatik, Universität Karlsruhe (2005)
- [328] Demirci, M.: Aggregation operators on partially ordered sets and their categorical foundations. Kybernetika 42, 261–277 (2006)
- [329] Deschrijver, G.: Quasi-arithmetic means and OWA functions in interval-valued and Atanassov's intuitionistic fuzzy set theory. In: Galichet, S., et al. (eds.) Proc. Eusflat/LFA'11, pp. 506–513 (2011)
- [330] Deschrijver, G., Kerre, E.E.: On the relationship between some extensions of fuzzy set theory. Fuzzy Sets and Systems 133(2), 227–235 (2003)

- [331] Destercke, S., Dubois, D., Chojnacki, E.: Unifying practical uncertainty representations. I: Generalized p-boxes. International Journal of Approximate Reasoning 49(3), 649–664 (2008)
- [332] Destercke, S., Dubois, D., Chojnacki, E.: Unifying practical uncertainty representations. II: Clouds. International Journal of Approximate Reasoning 49(3), 664–677 (2008)
- [333] Desu, M.M., Rodine, R.H.: Estimation of the population median. Skandinavisk Aktuarietidskrift 28, 67–70 (1969)
- [334] Deza, M.M., Deza, E.: Encyclopedia of Distances. Springer (2014)
- [335] Diaconis, P., Graham, R.: Spearman's footrule as a measure of disarray. Journal of the Royal Statistical Society, Series B (Methodological) 39(2), 262–268 (1977)
- [336] Diaconis, P., Shahshahani, M.: The subgroup algorithm for generating uniform random variables. Probability In Engineering And Information Sciences 1, 15–32 (1987)
- [337] Diamond, P., Kloeden, P.: Metric spaces of fuzzy sets. Theory and applications. World Scientific, Singapore (1994)
- [338] Didehvar, F., Eslahchi, C.: An algorithm for rank aggregation problem. Applied Mathematics and Computation 189(2), 1847–1858 (2007)
- [339] Dinu, L.P.: On the classification and aggregation of hierarchies with different constitutive elements. Fundamenta Informaticæ 55(1), 39–50 (2003)
- [340] Dinu, L.P., Ionescu, R.T.: Clustering methods based on closest string via rank distance. In: 14th Intl. Symp. Symbolic and Numeric Algorithms for Scientific Computing, pp. 207–213. IEEE (2012)
- [341] Dinu, L.P., Ionescu, R.T.: An efficient rank based approach for closest string and closest substring. PLoS One 7(6), e37576 (2012)
- [342] Dinu, L.P., Manea, F.: An efficient approach for the rank aggregation problem. Theoretical Computer Science 359(1–3), 455–461 (2006)
- [343] Dinu, L.P., Popa, A.: On the closest string via rank distance. Lecture Notes in Computer Science 7354, 413–426 (2012)
- [344] Domingo-Ferrer, J., Torra, V.: Disclosure risk assessment in statistical microdata protection via advanced record linkage. Statistics and Computing 13, 343–354 (2003)
- [345] Donoho, D.: Breakdown properties of multivariate location estimates. Ph.D. thesis, Department of Statistics, Harvard University (1982)
- [346] Donoho, D.L., Gasko, M.: Breakdown properties of location estimates based on halfspace depth and projected outlyingness. The Annals of Statistics 20(4), 1803–1827 (1992)
- [347] Doshi-Velez, F., Kim, B.: Towards a rigorous science of interpretable machine learning (2017), arXiv:1702.08608
- [348] Dubois, D., Prade, H.: Operations on fuzzy numbers. Int. J. Syst. Sci. 9, 613–626 (1978)
- [349] Dubois, D., Prade, H.: Fuzzy numbers: An overview. In: In: Analysis of Fuzzy Information. Mathematical Logic, vol. I, pp. 3–39. CRC Press (1987)
- [350] Dubois, D., Prade, H.: The mean value of a fuzzy number. Fuzzy Sets and Systems 24, 279–300 (1987)
- [351] Dubois, D., Fargier, H., Prade, H.: Refinements of the maximin approach to decision-making in a fuzzy environment. Fuzzy Sets and Systems 81, 103–122 (1996)
- [352] Dubois, D., Fortemps, P., Pirlot, M., Prade, H.: Leximin optimality and fuzzy set theoretic operations. European Journal of Operational Research 130(1), 20–28 (2001)
- [353] Dubois, D., Kerre, E., Mesiar, R., Prade, H.: Fuzzy interval analysis. In: Dubois, D., Prade, H. (eds.) Fundamentals of fuzzy sets, pp. 483–581. Kluwer, Boston, Mass. (2000)
- [354] Dubois, D., Prade, H.: Fuzzy sets and systems. Theory and applications. Academic Press, New York (1980)

- [355] Dubois, D., Prade, H.: A review of fuzzy set aggregation connectives. Information Sciences 39, 85–121 (1985)
- [356] Dubois, D., Prade, H.: Semantics of quotient operators in fuzzy relational databases. Fuzzy Sets and Systems 78(1), 89–93 (1996)
- [357] Dubois, D., Prade, H.: Possibility theory, probability theory and multiple-valued logics: A clarification. Annals of Mathematics and Artificial Intelligence 32, 35–66 (2001)
- [358] Dubois, D., Prade, H.: On the use of aggregation operations in information fusion processes. Fuzzy Sets and Systems 142, 143–161 (2004)
- [359] Dubois, D., Prade, H.: Formal representations of uncertainty. In: Bouyssou, D., Dubois, D., Pirlot, M., Prade, H. (eds.) Decision-making process, chap. 3. ISTE, London, UK (2009)
- [360] Dubois, D., Prade, H., Smets, P.: A definition of subjective possibility. International Journal of Approximate Reasoning 48(2), 352–364 (2008)
- [361] Dubois, D., Prade, H., Testemale, C.: Weighted fuzzy pattern matching. Fuzzy Sets and Systems 28, 313–331 (1988)
- [362] Dujmović, J.J.: Two integrals related to means. Publikacije Elektrotehničkog Fakulteta Univerziteta u Beogradu 412–460(457), 231–232 (1974)
- [363] Dujmović, J.J.: Weighted conjunctive and disjunctive means and their application in system evaluation. Publikacije Elektrotehničkog Fakulteta Univerziteta u Beogradu 461–497(483), 147–158 (1974)
- [364] Dukhovny, A.: Lattice polynomials of random variables. Statistics and Probability Letters 77, 989–994 (2007)
- [365] Durante, F., Mesiar, R., Papini, P.L., Sempi, C.: 2-increasing binary aggregation operators. Information Sciences 177, 111–129 (2007)
- [366] Durier, R.: The Fermat–Weber problem and inner-product spaces. Journal of Approximation Theory 78(2), 161–173 (1994)
- [367] Durier, R.: Optimal locations and inner products. Journal of Mathematical Analysis and Applications 207, 220–239 (1997)
- [368] Durier, R., Michelot, C.: Geometrical properties of the Fermat–Weber problem. European Journal of Operational Research 20, 332–343 (1985)
- [369] Durocher, S., Fraser, R., Leblanc, A., Morrison, J., Skala, M.: On combinatorial depth measures. In: Proc. 26th Canadian Conf. Computational Geometry, pp. 206–211 (2014)
- [370] Dutta, B.: Inequality, poverty and welfare. In: Arrow, K., Sen, A., Suzumura, K. (eds.) Handbook of Social Choice and Welfare, pp. 597–633. Elsevier (2002)
- [371] Dwork, C., Kumar, R., Naor, M., Sivakumar, D.: Rank aggregation methods for the web. In: Proceedings of the 10th International Conference on World Wide Web, pp. 613–622. ACM (2001)
- [372] Dyckerhoff, R., Koshevoy, G., Mosler, K.: Zonoid data depth: Theory and computation. In: Prat, A., et al. (eds.) Proc. COMPSTAT 1996, pp. 235–240. Physica-Verlag, Heidelberg (1996)
- [373] Eaton, M.L.: Multivariate Statistics. Wiley, New York (1983)
- [374] Eckhardt, U.: Weber's problem and Weiszfeld's algorithm in general spaces. Mathematical Programming 18, 186–196 (1980)
- [375] Eddelbuettel, D.: Seamless R and C++ Integration with Rcpp. Springer, New York (2013)
- [376] Eddelbuettel, D., François, R.: Rcpp: Seamless R and C++ integration. Journal of Statistical Software 40(8), 1–18 (2011)
- [377] Eddy, W.: Convex hull peeling. In: Proc. COMPSTAT'82, pp. 42-47. Physica-Verlag, Vienna (1982)
- [378] Edelsbrunner, H.: Algorithms in Combinatorial Geometry. Springer-Verlag, Heidelberg (1987)
- [379] Egghe, L.: Pratt's measure for some bibliometric distributions and its relation with the 80/20 rule. Journal of the American Society for Information Science 38(4), 288–297 (1987)

- [380] Egghe, L.: Mathematical theories of citation. Scientometrics 43(1), 57–62 (1998)
- [381] Egghe, L.: Relations between the continuous and the discrete Lotka power function. Journal of the American Society for Information Science and Technology 56(7), 664–668 (2005)
- [382] Egghe, L.: An improvement of the h-index: the g-index. ISSI Newsletter 2(1), 8–9 (2006)
- [383] Egghe, L.: Theory and practise of the g-index. Scientometrics 69(1), 131–152 (2006)
- [384] Egghe, L.: Item-time-dependent Lotkaian informetrics and applications to the calculation of the time-dependent h-index and g-index. Mathematical and Computer Modelling 45, 864–872 (2007)
- [385] Egghe, L.: Examples of simple transformations of the h-index: Qualitative and quantitative conclusions and consequences for other indices. Journal of Informetrics 2, 136–148 (2008)
- [386] Egghe, L.: The influence of merging on h-type indices. Journal of Informetrics 2(3), 252–262 (2008)
- [387] Egghe, L.: Modelling successive h-indices. Scientometrics 77(3), 377–387 (2008)
- [388] Egghe, L.: Mathematical study of h-index sequences. Information Processing and Management 45(2), 288-297 (2009)
- [389] Egghe, L.: Performance and its relation with productivity in Lotkaian systems. Scientometrics 81(2), 567–585 (2009)
- [390] Egghe, L.: Time-dependent Lotkaian informetrics incorporating growth of sources and items. Mathematical and Computer Modelling 49(1–2), 31–37 (2009)
- [391] Egghe, L.: The Hirsch index and related impact measures. Annual Review of Information Science and Technology 44, 65–114 (2010)
- [392] Egghe, L.: Influence of adding or deleting items and sources on the h-index. Journal of the American Society for Information Science and Technology 61(2), 370–373 (2010)
- [393] Egghe, L., Rousseau, R.: An informetric model for the Hirsch-index. Scientometrics 69(1), 121–129 (2006)
- [394] Ehrenfeucht, A., Haussler, D.: A new distance metric on strings computable in linear time. Discrete Applied Mathematics 20, 191–203 (1988)
- [395] Elbassioni, K., Tiwary, H.R.: Complexity of approximating the vertex centroid of a polyhedron. Lecture Notes in Computer Science 5878, 413–422 (2009)
- [396] Elbassioni, K., Tiwary, H.R.: Complexity of approximating the vertex centroid of a polyhedron. Theoretical Computer Science 421, 56–61 (2012)
- [397] Elidan, G.: Copulas in machine learning. In: Jaworski, P., Durante, F., Härdle, W. (eds.) Copulæ in Mathematical and Quantitative Finance, pp. 39–60. Springer (2013)
- [398] Ester, M., Kriegel, H.P., Sander, J., Xu, X.: A density-based algorithm for discovering clusters in large spatial databases with noise. In: Proc. KDD'96, pp. 226–231 (1996)
- [399] Eto, H.: Scientometric definition of science: In what respect is the humanities more scientific than mathematical and social sciences? Scientometrics 76(1), 23–42 (2008)
- [400] Even, Y., Lehrer, E.: Decomposition-integral: Unifying Choquet and the concave integrals. Economic Theory 56(1), 33–58 (2014)
- [401] Everitt, B., Hothorn, T.: A Handbook of Statistical Analyses Using R. Chapman & Hall (2006)
- [402] Eysenck, H., Eysenck, M.: Podpatrywanie umysłu. GWP, Gdańsk (2003)
- [403] Facchinetti, G., Ricci, R.G.: A characterization of a general class of ranking functions on triangular fuzzy numbers. Fuzzy Sets and Systems 146(2), 297–312 (2004)
- [404] Fan, K.: Entfernung zweier zufälligen Größen und die Konvergenz nach Wahrscheinlichkeit. Mathematische Zeitschrift 49, 681–683 (1943)
- [405] Fernández, M.L., Valiente, G.: A graph distance metric combining maximum common subgraph and minimum common supergraph. Pattern Recognition Letters 22(6–7), 753–758 (2001)

- [406] Fernández Salido, J., Murakami, S.: Extending Yager's orness concept for the OWA aggregators to other mean operators. Fuzzy Sets and Systems 139(3), 515–542 (2003)
- [407] 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)
- [408] Fiala, D., Rousselot, F., Jezek, K.: PageRank for bibliographic networks. Scientometrics 76(1), 135–158 (2008)
- [409] Field, C., Ronchetti, E.: Small sample asymptotics. Institute of Mathematical Statistics, Hayward, CA (1990)
- [410] Filev, D., Yager, R.R.: On the issue of obtaining OWA operator weights. Fuzzy Sets and Systems 94, 157–169 (1998)
- [411] Fischer, K., Gärtner, B., Kutz, M.: Fast smallest-enclosing-ball computation in high dimensions. In: Proc. 11th European Symposium on Algorithms (ESA), pp. 630–641 (2003)
- [412] Fishburn, P.: Condorcet social choice functions. SIAM Journal on Applied Mathematics 33(3), 469–489 (1977)
- [413] Fishburn, P.C.: Lexicographic orders, utilities and decision rules: A survey. Management Science 20(11), 1442–1471 (1974)
- [414] Fisher, N.: Statistical Analysis of Circular Data. Cambridge University Press (1993)
- [415] Fisher, R.: On the mathematical foundations of theoretical statistics. Philosophical Transactions of the Royal Society A 222, 309–368 (1922)
- [416] Fisher, R.: The correlation between relatives on the supposition of Mendelian inheritance. Philosophical Transactions of the Royal Society of Edinburgh 52, 399–433 (1918)
- [417] Fisher, R.A., Yates, F.: Statistical tables for biological, agricultural and medical research. Oliver & Boyd, London (1938)
- [418] Floyd, R., Rivest, R.: Expected time bounds for selection. Communications of the ACM 18(3), 165–172 (1975)
- [419] Fodor, J., de Baets, B.: Fuzzy preference modelling: Fundamentals and recent advances. In: Bustince, H., et al. (eds.) Fuzzy Sets and Their Extensions: Representation, Aggregation and Models. pp. 207–217. Springer-Verlag (2008)
- [420] Fodor, J., Marichal, J.L., Roubens, M.: Characterization of the Ordered Weighted Averaging operators. IEEE Transactions on Fuzzy Systems 3(2), 236–240 (1995)
- [421] Fodor, J., Roubens, M.: Fuzzy Preference Modelling and Multicriteria Decision Support. Springer (1994)
- [422] Fodor, J.C., Marichal, J.L.: On nonstrict means. Æquationes Mathematicæ 54(3), 308–327 (1997)
- [423] Fodor, J.: An extension of Fung-Fu's theorem. International Journal of Uncertainty, Fuzziness and Knowledge-based Systems 4(3), 235–243 (1996)
- [424] Foley, J., van Dam, A., Feiner, S., Hughes, J., Phillips, R.: Wprowadzenie do grafiki komputerowej. WNT, Warszawa (2001)
- [425] Forgy, E.: Cluster analysis of multivariate data: efficiency versus interpretability of classifications. Biometrics 21, 768–769 (1965)
- [426] Fowlkes, E., Mallows, C.: A method for comparing two hierarchical clusterings. Journal of the American Statistical Association 78(383), 553–569 (1983)
- [427] Frances, M., Litman, A.: On covering problems of codes. Theory of Computing Systems 30(2), 113–119 (1997)
- [428] Franceschet, M.: A comparison of bibliometric indicators for computer science scholars and journals on Web of Science and Google Scholar. Scientometrics 83(1), 243–258 (2010)

- [429] Franceschini, F., Maisano, D.A.: The Hirsch index in manufacturing and quality engineering. Quality and Reliability Engineering International 25, 987–995 (2009)
- [430] Franceschini, F., Maisano, D.A.: Analysis of the Hirsch index's operational properties. European Journal of Operational Research 203(2), 494–504 (2010)
- [431] Franceschini, F., Maisano, D.A.: Structured evaluation of the scientific output of academic research groups by recent h-based indicators. Journal of Informetrics 5, 64–74 (2011)
- [432] Frank, A., Asuncion, A.: UCI machine learning repository (2013), archive.ics.uci.edu/ml
- [433] Frank, M.: On the simultaneous associativity of f(x, y) and x + y f(x, y). Æquationes Mathematicæ 121–144, 19 (1979)
- [434] Fraser, A.: Simulation of genetic systems by automatic digital computers. I. Introduction. Australian Journal of Biological Sciences 10, 484–491 (1957)
- [435] Fraser, A., Burnell, D.: Computer Models in Genetics. McGraw-Hill, New York (1970)
- [436] Friedl, J.: Wyrażenia regularne. Helion, Gliwice (2001)
- [437] Friedman, J.H., Meulman, J.J.: Clustering objects on subsets of attributes. Journal of the Royal Statistical Society: Series B (Statistical Methodology) 66(4), 815–849 (2004)
- [438] Fränti, P., Virmajoki, O.: Iterative shrinking method for clustering problems. Pattern Recognition 39(5), 761–765 (2006)
- [439] Fu, L., Medico, E.: FLAME, a novel fuzzy clustering method for the analysis of DNA microarray data. BMC bioinformatics 8, 3 (2007)
- [440] Fullér, R., Majlender, P.: On interactive fuzzy numbers. Fuzzy Sets and Systems 143, 355–369 (2003)
- [441] Gagolewski, M.: A remark on limit properties of generalized h- and g- indices. Journal of Informetrics 3(4), 367–368 (2009)
- [442] 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)
- [443] Gagolewski, M.: Bibliometric impact assessment with R and the CITAN package. Journal of Informetrics 5(4), 678–692 (2011)
- [444] 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)
- [445] Gagolewski, M.: On the relationship between symmetric maxitive, minitive, and modular aggregation operators. Information Sciences 221, 170–180 (2013)
- [446] Gagolewski, M.: Scientific impact assessment cannot be fair. Journal of Informetrics 7(4), 792–802 (2013)
- [447] 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)
- [448] Gagolewski, M.: CITAN: CITation ANalysis toolpack (2014), http://CRAN.R-project.org/package=CITAN
- [449] Gagolewski, M.: Programowanie w języku R. Analiza danych, obliczenia, symulacje. Wydawnictwo Naukowe PWN, Warszawa (2014)
- [450] Gagolewski, M.: Data Fusion: Theory, Methods, and Applications. Institute of Computer Science, Polish Academy of Sciences, Warsaw, Poland (2015)
- [451] 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)

- [452] 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)
- [453] Gagolewski, M.: Spread measures and their relation to aggregation functions. European Journal of Operational Research 241(2), 469–477 (2015)
- [454] 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)
- [455] Gagolewski, M.: Programowanie w języku R. Analiza danych, obliczenia, symulacje. Wydawnictwo Naukowe PWN, Warszawa (2016)
- [456] Gagolewski, M.: Penalty-based aggregation of multidimensional data. Fuzzy Sets and Systems 325, 4–20 (2017)
- [457] Gagolewski, M., Bartoszuk, M., Cena, A.: Genie: A new, fast, and outlier-resistant hierarchical clustering algorithm. Information Sciences 363, 8–23 (2016)
- [458] Gagolewski, M., Bartoszuk, M., Cena, A.: Przetwarzanie i analiza danych w języku Python. Wydawnictwo Naukowe PWN, Warszawa (2016)
- [459] 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
- [460] Gagolewski, M., Cena, A.: agop: Aggregation operators and preordered sets in R (2014), http://agop.rexamine.com
- [461] 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)
- [462] 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)
- [463] Gagolewski, M., Grzegorzewski, P.: A geometric approach to the construction of scientific impact indices. Scientometrics 81(3), 617–634 (2009)
- [464] 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)
- [465] 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)
- [466] 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)
- [467] 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)
- [468] 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)
- [469] 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)
- [470] 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)
- [471] 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)

- [472] 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)
- [473] Gagolewski, M., Mesiar, R.: Aggregating different paper quality measures with a generalized h-index. Journal of Informetrics 6(4), 566-579 (2012)
- [474] 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)
- [475] Gagolewski, M., Tartanus, B.: R package stringi: Character string processing facilities (2015), http://stringi.rexamine.com/, doi:10.5281/zenodo.12594
- [476] Gao, X., Xiao, B., Tao, D., Li, X.: A survey of graph edit distance. Pattern Analysis and Applications 13(1), 113–129 (2010)
- [477] García-Lapresta, J.L., Pérez-Román, D.: Consensus-based hierarchical agglomerative clustering in the context of weak orders. In: Proc. IFSA World Congress, pp. 1010–1015. Edmonton, Canada (2013)
- [478] García-Lapresta, J., Lasso de la Vega, C., Marques Pereira, R., Urrutia, A.: A new class of fuzzy poverty measures. In: Proc. of IFSA/EUSFLAT'15, pp. 1140–1146. Atlantis Press (2015)
- [479] García-Lapresta, J., Pérez-Román, D.: Some measures of consensus generated by distances on weak orders. In: Proc. XIV Congreso Español sobre Tecnologías y Lógica fuzzy, pp. 477–483. Cuencas Mineras (2008)
- [480] Garcia-Perez, M.: A multidimensional extension to Hirsch's h-index. Scientometrics 81(3), 779–785 (2009)
- [481] García-Torres, M., Gómez-Vela, F., Melián-Batista, B., Moreno-Vega, J.M.: High-dimensional feature selection via feature grouping: A variable neighborhood search approach. Information Sciences 326, 102–118 (2016)
- [482] Garfield, E.: Citation indexes for science. Science 122(3159), 108–111 (1955)
- [483] Garfield, E.: Can citation indexing be automated? In: Stevens, M.E., Giuliano, V.E., Heilprin, L.B. (eds.) Proc. Statistical Association Methods for Mechanized Documentation. pp. 189–192. Washington (1964)
- [484] Garfield, E.: Random thoughts on citationology. Its theory and practice. Scientometrics 43(1), 69–76 (1998)
- [485] Garfield, E.: The history and meaning of the Journal Impact Factor. Journal of American Medical Association 295(1), 90–93 (2006)
- [486] Garfield, E., Pudovkin, A.I., Istomin, V.S.: Why do we need algorithmic historiography? Journal of the American Society for Information Science and Technology 54(5), 400–412 (2003)
- [487] Gärtner, B.: Fast and robust smallest enclosing balls. Lecture Notes in Computer Science 1643, 325–338 (1999)
- [488] Gärtner, B., Schönherr, S.: An efficient, exact, and generic quadratic programming solver for geometric optimization. In: Proc. 16th ACM Symposium on Computational Geometry, pp. 110–118 (2000)
- [489] Gentle, J.: Random Number Generation and Monte Carlo Methods. Springer-Verlag (2003)
- [490] Gentle, J.: Matrix Algebra. Springer-Verlag (2007)
- [491] Gentle, J.: Computational Statistics. Springer-Verlag (2009)
- [492] Gentleman, R.C., Carey, V.J., Bates, D.M., et al.: Bioconductor: Open software development for computational biology and bioinformatics. Genome Biology 5, R80 (2004)
- [493] Genz, A., Malik, A.: An adaptive algorithm for numeric integration over an n-dimensional rectangular region. Journal of Computational and Applied Mathematics 6(4), 295–302 (1980)
- [494] Ghiselli Ricci, R.: Finitely and absolutely non idempotent aggregation operators. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems 12(2), 201–217 (2004)

- [495] Ghiselli Ricci, R.: Asymptotically idempotent aggregation operators. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems 17(5), 611–631 (2009)
- [496] Ghiselli Ricci, R., Mesiar, R.: Multi-attribute aggregation operators. Fuzzy Sets and Systems 181(1), 1–13 (2011)
- [497] Ghosh, A., Chattopadhyay, N., Chakrabarti, B.: Inequality in societies, academic institutions and science journals: Gini and k-indices. Physica A 410, 30–34 (2014)
- [498] Gini, C.: Variabilità e mutabilità. C. Cuppini, Bologna (1912)
- [499] Gionis, A., Mannila, H., Tsaparas, P.: Clustering aggregation. ACM Transactions on Knowledge Discovery from Data 1(1), 4 (2007)
- [500] Glänzel, W.: On the h-index A mathematical approach to a new measure of publication activity and citation impact. Scientometrics 67(2), 315–321 (2006)
- [501] Glänzel, W.: On the opportunities and limitations of the H-index. Science Focus 1(1), 10–11 (2006)
- [502] Glänzel, W.: Some new applications of the h-index. ISSI Newsletter 3(2), 28–31 (2007)
- [503] Glänzel, W.: H-index concatenation. Scientometrics 77(2), 369–372 (2008)
- [504] Glänzel, W.: On some new bibliometric applications of statistics related to the h-index. Scientometrics 77(1), 187-196 (2008)
- [505] Glänzel, W.: Seven myths in bibliometrics. About facts and fiction in quantitative science studies. COLLNET Journal of Scientometrics and Information Management 2(1), 9–17 (2008)
- [506] Glänzel, W., Persson, O.: H-index for price medalists. ISSI Newsletter 1(4), 15–18 (2005)
- [507] Godo, L., Torra, V.: On aggregation operators for ordinal qualitative information. IEEE Transactions on Fuzzy Systems 8(2), 143–154 (2000)
- [508] Goldberg, D.: What every computer scientist should know about floating-point arithmetic. ACM Computing Surveys 21(1), 5–48 (1991)
- [509] Goldfarb, D., Idnani, A.: A numerically stable dual method for solving strictly convex quadratic programs. Mathematical Programming 27, 1–33 (1983)
- [510] Golub, T., et al.: Molecular classification of cancer: Class discovery and class prediction by gene expression monitoring. Science 286, 531–537 (1999)
- [511] Gonzalez-Pereira, B., Guerrero-Bote, V.P., de Moya-Anegon, F.: A new approach to the metric of journals' scientific prestige: The SJR indicator. Journal of Informetrics 4(3), 379–391 (2010)
- [512] Goodman, B., Flaxman, S.: EU regulations on algorithmic decision-making and a "right to explanation". In: Proc. ICML Workshop on Human Interpretability of Machine Learning 16. New York (2016)
- [513] Gosselin, F.: Lorenz partial order: The best known logical framework to define evenness indices. Community Ecology 2(2), 197–207 (2001)
- [514] Gower, J.C.: Algorithm AS 78: The Mediancentre. Journal of the Royal Statistical Society. Series C (Applied Statistics) 23(3), 466–470 (1974)
- [515] Gower, J.C., Ross, G.J.S.: Minimum spanning trees and single linkage cluster analysis. Journal of the Royal Statistical Society. Series C (Applied Statistics) 18(1), 54–64 (1969)
- [516] Gower, J.: A comparison of some methods of cluster analysis. Biometrics 23(4), 623–637 (1967)
- [517] Grabisch, M.: k-order additive discrete fuzzy measures and their representation. Fuzzy Sets and Systems 92, 167–189 (1997)
- [518] Grabisch, M.: k-order additive discrete fuzzy measures and their representation. Fuzzy Sets and Systems 92(167-189) (1997)
- [519] Grabisch, M.: A graphical interpretation of the Choquet integral. IEEE Transactions on Fuzzy Systems 8(5), 627–631 (2000)
- [520] Grabisch, M.: The symmetric Sugeno integral. Fuzzy Sets and Systems 139, 473–490 (2003)

- [521] Grabisch, M.: How to score alternatives when criteria are scored on an ordinal scale. Journal of Multi-Criteria Decision Analysis 15, 31–44 (2008)
- [522] Grabisch, M., Marichal, J.L., Mesiar, R., Pap, E.: Aggregation Functions. Cambridge University Press (2009)
- [523] Grabisch, M., Marichal, J.L., Mesiar, R., Pap, E.: Aggregation functions: Construction methods, conjunctive, disjunctive and mixed classes. Information Sciences 181, 23–43 (2011)
- [524] Grabisch, M., Marichal, J.L., Mesiar, R., Pap, E.: Aggregation functions: Means. Information Sciences 181, 1–22 (2011)
- [525] Graham, R.L.: An efficient algorithm for determining the convex hull of a finite planar set. Information Processing Letters 1, 132–133 (1972)
- [526] Gramm, J., Niedermeier, R., Rossmanith, P.: Fixed-parameter algorithms for closest string and related problems. Algorithmica 37, 25–42 (2003)
- [527] Greco, S., Mesiar, R., Rindone, F.: Two new characterizations of universal integrals on the scale [0, 1]. Information Sciences 267, 217–224 (2014)
- [528] Green, P.: Peeling bivariate data. In: Barnett, V. (ed.) Interpreting multivariate data. Wiley, New York (1981)
- [529] Groes, E., Jacobsen, H.J., Sloth, B., Tranæs, T.: Axiomatic characterizations of the Choquet integral. Economic Theory 12, 441–448 (1998)
- [530] Gross, P.L.K., Gross, E.M.: College libraries and chemical education. Science 66(1713), 385–389 (1927)
- [531] Grübel, R.: Orthogonalization of multivariate location estimators: The orthomedian. The Annals of Statistics 24(4), 1457–1473 (1996)
- [532] Grygorash, O., Zhou, Y., Jorgensen, Z.: Minimum spanning tree based clustering algorithms. In: Proc. ICTAI'06, pp. 1–9 (2006)
- [533] Grzegorzewski, P.: Metrics and orders in space of fuzzy numbers. Fuzzy Sets and Systems 97, 83–94 (1998)
- [534] Grzegorzewski, P.: Algorithms for trapezoidal approximations of fuzzy numbers preserving the expected interval. In: et al, B.M.B. (ed.) Foundations of Reasoning Under Uncertainty. pp. 85–98. Springer (2010)
- [535] Grzegorzewski, P., Pasternak-Winiarska, K.: Trapezoidal approximations of fuzzy numbers with restrictions on the support and core. In: Proc. EUSFLAT/LFA 2011. pp. 749–756. Atlantis Press (2011)
- [536] Grzegorzewski, P.: Distances between intuitionistic fuzzy sets and/or interval-valued fuzzy sets based on the Hausdorff metric. Fuzzy Sets and Systems 148(2), 319–328 (2004)
- [537] Grzegorzewski, P.: Wspomaganie decyzji w warunkach niepewności. Metody statystyczne dla nieprecyzyjnych danych. Exit, Warszawa (2006)
- [538] Grzegorzewski, P.: Granular regression. In: Proc. IFSA/NAFIPS'13, pp. 974–979. Edmonton, Canada (2013)
- [539] Grzegorzewski, P., Gagolewski, M., Bobecka-Wesołowska, K.: Wnioskowanie statystyczne z wykorzystaniem środowiska R. Biuro ds. Projektu "Program Rozwojowy Politechniki Warszawskiej", Warszawa (2014)
- [540] 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)
- [541] Grzegorzewski, P., Mrówka, E.: Some notes on (Atanassov's) intuitionistic fuzzy sets. Fuzzy Sets and Systems 156, 492–495 (2005)
- [542] Grzegorzewski, P.: Nearest interval approximation of a fuzzy number. Fuzzy Sets and Systems 130(3), 321–330 (2002)
- [543] Grzegorzewski, P.: Trapezoidal approximations of fuzzy numbers preserving the expected interval Algorithms and properties. Fuzzy Sets and Systems 159(11), 1354–1364 (2008)

- [544] Grzegorzewski, P., Mrówka, E.: Trapezoidal approximations of fuzzy numbers. Fuzzy Sets and Systems 153(1), 115–135 (2005)
- [545] Grzegorzewski, P., Mrówka, E.: Trapezoidal approximations of fuzzy numbers Revisited. Fuzzy Sets and Systems 158(7), 757–768 (2007)
- [546] Grąbczewski, K.: Meta-Learning in Decision Tree Induction. Springer (2014)
- [547] Gu, T., Dolan-Gavitt, B., Garg, S.: BadNets: Identifying vulnerabilities in the machine learning model supply chain (2017), arXiv:1708.06733
- [548] Guan, J.C., Gao, X.: Exploring the h-index at patent level. Journal of the American Society for Information Science and Technology 60(1), 35–40 (2009)
- [549] Guerrini, L.: An extension of Witzgall's result on convex metrics. Divulgaciones Matematicás 13(2), 83–89 (2005)
- [550] Güngör, Z., Ünler, A.: K-harmonic means data clustering with simulated annealing heuristic. Applied Mathematics and Computation 184, 199–209 (2007)
- [551] Guns, R., Rousseau, R.: Real and rational variants of the h-index and the g-index. Journal of Informetrics 3(1), 64–71 (2009)
- [552] Guns, R., Rousseau, R.: Simulating growth of the h-index. Journal of the American Society for Information Science and Technology 60(2), 410–417 (2009)
- [553] Gupta, B.M., Sharma, L., Karisiddappa, C.R.: Modelling the growth of papers in a scientific speciality. Scientometrics 33(2), 187–201 (1995)
- [554] Gupta, M., et al.: Monotonic calibrated interpolated look-up tables. Journal of Machine Learning Research 17(109), 1–47 (2016)
- [555] Guyon, I., Elisseeff, A.: An introduction to variable and feature selection. Journal of Machine Learning Research 3, 1157–1182 (2003)
- [556] Guyon, I., Nikravesh, M., Gunn, S., Zadeh, L.A. (eds.): Feature Extraction: Foundations and Applications. Springer (2006)
- [557] Górecki, J., Hofert, M., Holeňa, M.: An approach to structure determination and estimation of hierarchical archimedean copulas and its application in Bayesian classification. Journal of Intelligent Information Systems pp. 1–39 (2015)
- [558] Halmos, P.: Measure Theory. Van Nostrand, New York (1950)
- [559] Hamming, R.W.: Error detecting and error correcting codes. Bell System Technical Journal 29(2), 147–160 (1950)
- [560] Hansen, N.: The CMA evolution strategy: A comparing review. In: Lozano, J., Larranga, P., Inza, I., Bengoetxea, E. (eds.) Towards a new evolutionary computation. Advances in estimation of distribution algorithms. pp. 75–102. Springer (2006)
- [561] Hanss, M.: Applied Fuzzy Arithmetic. Springer (2005)
- [562] Harel, D.: Rzecz o istocie informatyki. WNT, Warszawa (2001)
- [563] Hartman, E.: Training feedforward neural networks with gain constraints. Neural Computation 12(4), 811–829 (2000)
- [564] Harzing, A.W.K., van der Wal, R.: Google *Scholar* as a new source for citation analysis? Ethics in Science and Environmental Politics 8(1), 62–71 (2008)
- [565] Harzing, A.W., von der Wall, R.: A Google Scholar h-index for journals: An alternative metric to measure journal impact in economics and business. Journal of the American Society for Information Science and Technology 60(1), 41–46 (2009)
- [566] Hastie, T., Tibshirani, R., Friedman, J.: The Elements of Statistical Learning. Springer (2013)
- [567] Hastie, T., Tibshirani, R., Friedman, J.: The Elements of Statistical Learning: Data Mining, Inference, and Prediction. Springer-Verlag (2017)

- [568] He, X., Shi, P.: Monotone b-spline smoothing. Journal of the American Statistical Association 93(442) (1998)
- [569] Heip, C.: A new index measuring evenness. Journal of Marine Biological Association of the United Kingdom 54(3), 555–557 (1974)
- [570] Heller, M.: Jak być uczonym. Znak, Kraków (2009)
- [571] Helmers, R., Ruymgaart, F.H.: Asymptotic normality of generalized L-statistics with unbounded scores. Journal of Statistical Planning and Inference 19, 43–53 (1988)
- [572] Herrera, F., Herrera-Viedma, E., Verdegay, J.: Direct approach processes in group decision making using linguistic OWA operators. Fuzzy Sets and Systems 79(2), 175–190 (1996)
- [573] Herrera, F., Herrera-Viedma, E., Verdegay, J.: A rational consensus model in group decision making using linguistic assessments. Fuzzy Sets and Systems 88(1), 31–49 (1997)
- [574] Hettmansperger, T.P., Randles, R.H.: A practical affine equivariant multivariate median. Biometrika 89(4), 851–860 (2002)
- [575] Higham, N.: Accuracy and Stability of Numerical Algorithms. SIAM, Philadelphia (2002)
- [576] Higham, N.J.: The accuracy of floating point summation. SIAM Journal on Scientific Computing 14(4), 783-799 (1993)
- [577] Hilbert, D.: Über die stetige Abbildung einer Linie auf ein Flächenstück. Mathematische Annalen 38, 459–460 (1891)
- [578] Hinton, G., Vinyals, O., Dean, J.: Distilling the knowledge in a neural network (2015), arXiv:13520.3051
- [579] Hirota, K.: Concepts of probabilistic sets. Fuzzy Sets and Systems 5, 31–46 (1981)
- [580] Hirsch, J.E.: An index to quantify individual's scientific research output. Proceedings of the National Academy of Sciences 102(46), 16569–16572 (2005)
- [581] Hirsch, J.E.: Does the h-index have predictive power? Proceedings of the National Academy of Sciences 104(49), 19193-19198 (2007)
- [582] Hoare, C.: Algorithm 65: Find. Communications of the ACM 4(7), 321–322 (1961)
- [583] Hoeffding, W.: Probability inequalities for sums of bounded random variables. Journal of the American Statistical Association 58(301), 13–30 (1963)
- [584] Hoerl, A., Kennard, R.: Ridge regression: Biased estimation for nonorthogonal problems. Technometrics 12(1), 55–67 (1970)
- [585] Hopcroft, J., Ullman, J.: Wprowadzenie do teorii automatów, języków i obliczeń. PWN, Warszawa (2003)
- [586] Hornik, K., Murdoch, D.: Watch your spelling! The R Journal 3(2), 22–28 (2011)
- [587] Hornowska, E.: Testy psychologiczne. Teoria i praktyka. Scholar, Warszawa (2007)
- [588] Hou, H., Kretschmer, H., Liu, Z.: The structure of scientific collaboration networks in Scientometrics. Scientometrics 75(2), 189–202 (2008)
- [589] Hovden, R.: Bibliometrics for internet media: Applying the h-index to YouTube. Journal of the American Society for Information Science and Technology 64(11), 2326–2331 (2013)
- [590] Hryniewicz, O.: Statistics with fuzzy data in statistical quality control. Soft Computing 12(3), 229–234 (2008)
- [591] Hu, J., Shen, L., Sun, G.: Squeeze-and-excitation networks (2017), arXiv:1709.01507
- [592] Huang, G.B., Zhu, Q.Y., Siew, C.K.: Extreme learning machine: Theory and applications. Neurocomputing 70(1), 489–501 (2006)
- [593] Huang, Y.S., Chang, W.C., Lin, Z.L.: Aggregation of utility-based individual preferences for group decision-making. European Journal of Operational Research 229, 462–469 (2013)

- [594] Huang, Y.S., Liao, J.T., Lin, Z.L.: A study on aggregation of group decisions. Systems Research and Behavioral Science 26(4), 445–454 (2009)
- [595] Huber, J.C.: A new method for analyzing scientific productivity. Journal of the American Society for Information Science and Technology 52(13), 1089–1099 (2001)
- [596] Huber, J.C.: A new model that generates Lotka's law. Journal of the American Society for Information Science and Technology 53(3), 209–219 (2002)
- [597] Huber, P.J.: The 1972 Wald lecture robust statistics: A review. Annals of Mathematical Statistics 42(4), 1041–1067 (1972)
- [598] Huber, P.J.: Projection pursuit. The Annals of Statistics 13(2), 435–475 (1985)
- [599] Hubert, L., Arabie, P.: Comparing partitions. Journal of Classification 2(1), 193–218 (1985)
- [600] Hufsky, F., Kuchenbecker, L., Jahn, K., Stoye, J., Böcker, S.: Swiftly computing center strings. BMC Bioinformatics 12, 106 (2011)
- [601] Hwang, Y.A.: An axiomatization of the Hirsch-index without adopting monotonicity. Applied Mathematics and Information Sciences 7(4), 1317–1322 (2013)
- [602] Hyndman, R.J., Fan, Y.: Sample quantiles in statistical packages. The American Statistician 50(4), 361–365 (1996)
- [603] Hüllermeier, E.: Cho-k-NN: A method for combining interacting pieces of evidence in case-based learning. In: Proc. IJCAI'05 (2005)
- [604] Hüllermeier, E.: Does machine learning need fuzzy logic? Fuzzy Sets and Systems 281, 292–299 (2015)
- [605] Ibàñez, A., Larrañaga, P., Bielza, C.: Cluster methods for assessing research performance: Exploring Spanish computer science. Scientometrics 97(3), 571–600 (2013)
- [606] Inoue, J.I., Ghosh, A., Chatterjee, A., Chakrabarti, B.: Measuring social inequality with quantitative methodology: Analytical estimates and empirical data analysis by gini and k indices. Physica A 429, 184–204 (2015)
- [607] Irpino, A., Verde, R.: Dynamic clustering of interval data using a wasserstein-based distance. Pattern Recognition Letters 29(11), 1648–1658 (2008)
- [608] Istrățescu, V.I.: Inner Product Structures: Theory and Applications. D. Reidel Publishing Company, Boston (1987)
- [609] Ivancheva, L.: Scientometrics today: A methodological overview. In: Kretschmer, H., Havemann, F. (eds.) Proc. WIS 2008, 4th Intl. Conf. Webometrics, Informetrics and Scientometrics & 9th COLLNET Meeting. Berlin (2008)
- [610] Jacso, P.: The plausability of computing the h-index of scholarly productivity and impact using reference-enhanced databases. Online Information Review 32(2), 266–283 (2008)
- [611] Jain, A., Law, M.: Data clustering: A user's dilemma. Lecture Notes in Computer Science 3776, 1–10 (2005)
- [612] Jakubowski, J., Sztencel, R.: Wstęp do teorii pradopodobieństwa. Script, Warszawa (2010)
- [613] James, D.A.: RSQLite: SQLite interface for R (2010), http://CRAN.R-project.org/package=RSQLite, R package version 0.9-4
- [614] Jamison, B., Orey, S., Pruitt, W.: Convergence of weighted averages of independent random variables. Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete 4(1), 40–44 (1965)
- [615] Jammalamadaka, S.R., SenGupta, A.: Topics in Circular Statistics. World Scientific Press, Singapore (2001)
- [616] Janssens, F., Zhang, L., Glänzel, W.: Hybrid clustering for validation and improvement of subject-classification schemes. Information Processing and Management 45(6), 638–702 (2009)
- [617] Jaroszewicz, S., Korzeń, M.: Arithmetic operations on independent random variables: A numerical approach. SIAM Journal on Scientific Computing 34, A1241–A1265 (2012)

- [618] Jaworski, P., Durante, F., Härdle, W., Rychlik, T.: Copula Theory and Its Applications. Springer-Verlag (2010)
- [619] Jenei, S., De Baets, B.: On the direct decomposability of t-norms on product lattices. Fuzzy Sets and Systems 139(3), 699–707 (2003)
- [620] Jensen, P., Rouquier, J.B., Croissant, Y.: Testing bibliometric indicators by their prediction of scientific promotions. Scientometrics 78(3), 467–479 (2009)
- [621] Jiang, H., Yi, S., Li, J., Yang, F., Hu, X.: Ant clustering algorithm with K-harmonic means clustering. Expert Systems with Applications 37, 8679–8684 (2010)
- [622] Jiang, X., Wentker, J., Ferrer, M.: Generalized median string computation by means of string embedding in vector spaces. Pattern Recognition Letters 33, 842–852 (2012)
- [623] Jin, B., Liang, L., Rousseau, R., Egghe, L.: The R- and AR-indices: Complementing the h-index. Chinese Science Bulletin 52(6), 855–863 (2007)
- [624] Johnson, R.: Modern Geometry: An Elementary Treatise on the Geometry of the Triangle and the Circle. Houghton Mifflin, Boston, MA (1929)
- [625] Johnson, S.G.: The NLopt nonlinear-optimization package (2017), http://ab-initio.mit.edu/nlopt
- [626] Jones, O., Maillardet, R., Robinson, A.: Introduction to Scientific Programming and Simulation Using R. Chapman & Hall/CRC (2009)
- [627] Juan, A., Vidal, E.: Fast median search in metric spaces. Lecture Notes in Computer Science 1451, 905–912 (1998)
- [628] Kacprzyk, J., Zadrożny, S.: Computing with words for text categorization. Studies in Fuzziness and Soft Computing 209, 339–362 (2007)
- [629] Kahan, W.: Further remarks on reducing truncation errors. Communications of the ACM 8(1), 40 (1965)
- [630] Karaçal, F., Mesiar, R.: Uninorms on bounded lattices. Fuzzy Sets and Systems 261, 33-43 (2015)
- [631] Kärkkäinen, T., Äyrämö, S.: On computation of spatial median for robust data mining. In: Schilling, R., et al. (eds.) Proc. EUROGEN 2005, pp. 1–14 (2005)
- [632] Kate, S., Bhapkar, H.: Basic of Mathematics. Technical Publication Pune (2010)
- [633] Katsaros, D., Akritidis, L., Bozanis, P.: Spam: it's not just for inboxes and search engines! Making Hirsch h-index robust to scientospam. arXiv:0801.0386v1 [cs.DL] (2008)
- [634] Kelly, C.D., Jennions, M.D.: The h index and career assessment by numbers. TRENDS in Ecology and Evolution 21(4), 167-170 (2006)
- [635] Kemeny, J.G.: Mathematics without numbers. Daedalus 88(4), 577-591 (1959)
- [636] Kerns, G.: Introduction to Probability and Statistics Using R (2011), www.ipsur.org
- [637] Kerre, E.E.: A tribute to Zadeh's extension principle. Scientia Iranica 18(3), 593–595 (2011)
- [638] Kierzek, R.: Polska nauka w indeksie Hirscha. Biuletyn MNiSW 137(6-7), 29-35 (2008)
- [639] Kierzek, R.: Jak porównać "apples and oranges", czyli o ró?nych metodach analizy publikowalno?ci i dorobku naukowego. Biuletyn MNiSW 143(2), 33–41 (2009)
- [640] Kim, W.J., Ko, J.H., Chung, M.J.: Uncertain robot environment modelling using fuzzy numbers. Fuzzy Sets and Systems 61(1), 53–62 (1994)
- [641] Kimberling, C.: Central points and central lines in the plane of a triangle. Mathematics Magazine 67(3), 163–187 (1994)
- [642] Kimberling, C.: Triangle centers and central triangles. Congressus Numerantium 129, 1–295 (1998)
- [643] Kitagawa, T.: On some class of weighted means. Proceedings of the Physico-Mathematical Society of Japan 16 (1934)

- [644] Kleene, S.C.: On the forms of the predicates in the theory of constructive ordinals. American Journal of Mathematics 77(3), 405–428 (1955)
- [645] Klement, E., Mesiar, R., Pap, E.: A universal integral as common frame for Choquet and Sugeno integral. IEEE Transactions on Fuzzy Systems 18, 178–187 (2010)
- [646] Klement, E.P., Mesiar, R.: Monotone measures-based integrals. In: Kacprzyk, J., Pedrycz, W. (eds.) Handbook of Computational Intelligence, pp. 61–74. Springer (2015)
- [647] Klement, E.P., Manzi, M., Mesiar, R.: Ultramodular aggregation functions. Information Sciences 181, 4101–4111 (2011)
- [648] Klement, E.P., Mesiar, R., Pap, E.: Triangular norms. Kluwer Academic Publishers (2000)
- [649] Klement, E.P., Mesiar, R., Pap, E.: Triangular norms. Position paper I: Basic analytical and algebraic properties. Fuzzy Sets and Systems 143, 5–26 (2004)
- [650] Klement, E.P., Mesiar, R., Pap, E.: Triangular norms. Position paper II: General constructions and parametrized families. Fuzzy Sets and Systems 145, 411–438 (2004)
- [651] Klement, E.P., Mesiar, R., Pap, E.: Triangular norms. Position paper III: Continuous t-norms. Fuzzy Sets and Systems 145, 439–454 (2004)
- [652] Klir, G.J., Yuan, B.: Fuzzy sets and fuzzy logic. Theory and applications. Prentice Hall PTR, New Jersey (1995)
- [653] Knuth, D.: Literate Programming. CSLI (1992)
- [654] Knuth, D.: Sztuka programowania. Tom I. Algorytmy podstawowe. WNT, Warszawa (2002)
- [655] Knuth, D.: Sztuka programowania. Tom II. Algorytmy seminumeryczne. WNT, Warszawa (2002)
- [656] Knuth, D.: Sztuka programowania. Tom III. Sortowanie i wyszukiwanie. WNT, Warszawa (2002)
- [657] Knuth, D.: TeX. Podręcznik użytkownika. WNT, Warszawa (2005)
- [658] Knuth, D.E.: The Art of Computer Programming. Volume 2. Seminumerical Algorithms. Addison Wesley, Reading, MA (1998)
- [659] Kobus, M.: Attribute decomposition of multidimensional inequality indices. Economics Letters 117(1), 189–191 (2012)
- [660] Kobus, M., Miłoś, P.: Inequality decomposition by population subgroups for ordinal data. Journal of Health Economics 31(1), 15–21 (2012)
- [661] Kohonen, T., Somervuo, P.J.: Self-organizing maps of symbol strings. Neurocomputing 21, 19–30 (1998)
- [662] Kojadinovic, I.: Unsupervised aggregation by the Choquet integral based on entropy functionals: Application to the evaluation of students. Lecture Notes in Computer Science 3131, 163–174 (2004)
- [663] Kojadinovic, I.: Unsupervised aggregation of commensurate correlated attributes by means of the Choquet integral and entropy functionals. International Journal of Intelligent Systems 23(2), 128–154 (2008)
- [664] Kojadinovic, I., Marichal, J.L.: On the moments and distribution of discrete Choquet integrals from continuous distributions. Journal of Computational and Applied Mathematics 230, 83–94 (2009)
- [665] Kołacz, A., Grzegorzewski, P.: Measures of dispersion for multidimensional data. European Journal of Operational Research 251(3), 930–937 (2016)
- [666] Kolesárová, A., Mayor, G., Mesiar, R.: Weighted ordinal means. Information Sciences 177, 3822–3830 (2007)
- [667] Kolesárová, A., Mesiar, R., Montero, J.: Sequential aggregation of bags. Information Sciences 294, 305–314 (2015)
- [668] Kolmogorov, A.: Sur la notion de la moyenne. Atti della R. Academia nazionale dei Lincei 12, 388–391 (1930)
- [669] Komorníková, M., Mesiar, R.: Aggregation functions on bounded partially ordered sets and their classification. Fuzzy Sets and Systems 175, 48–56 (2011)

- [670] Konohen, T.: Median strings. Pattern Recognition Letters 3, 309–313 (1985)
- [671] Koppel, M., Schler, J., Argamon, S.: Computational methods in authorship attribution. Journal of the American Society for Information Science and Technology 60(1), 9–26 (2009)
- [672] Koronacki, J., Ćwik, J.: Statystyczne systemy uczące się. WNT, Warszawa (2005)
- [673] Koronacki, J., Mielniczuk, J.: Statystyka. WNT, Warszawa (2001)
- [674] Korzeń, M., Jaroszewicz, S.: PaCAL: A Python package for arithmetic computations with random variables. Journal of Statistical Software 57(10), 1–34 (2014)
- [675] Koshevoy, G., Mosler, K.: Zonoid trimming for multivariate distributions. The Annals of Statistics 25(5) (1997)
- [676] Kosmulski, M.: A new Hirsch-type index saves time and works equally well as the original h-index. ISSI Newsletter 2(3), 4–6 (2006)
- [677] Kosmulski, M.: MAXPROD A new index for assessment of the scientific output of an individual, and a comparison with the h-index. Cybermetrics 11(1), 5 (2007)
- [678] Kostal, L., Lansky, P., Pokora, O.: Measures of statistical dispersion based on Shannon and Fisher information concepts. Information Sciences 235, 214–223 (2013)
- [679] Kostoff, R.N.: The use and misuse of citation analysis in research evaluation. Scientometrics 43(1), 27–43 (1998)
- [680] Krarup, J., Vajda, S.: On Torricelli's geometrical solution to a problem of Fermat. IMA Journal of Management Mathematics 8, 215–223 (1997)
- [681] Kraus, D., Czado, C.: D-vine copula based quantile regression. Computational Statistics & Data Analysis 110, 1–18 (2017)
- [682] Krause, A., Olson, M.: The Basics of S-PLUS. Springer-Verlag (2005)
- [683] Krebs, C.: Ecological Methodology. Harper Collins, New York (1989)
- [684] Kruskal, J.B.: An overview of sequence comparison: Time warps, string edits, and macromolecules. SIAM Review 25(2), 201–237 (1983)
- [685] Kuhn, T.S.: Struktura rewolucji naukowych. Aletheia, Warszawa (2001)
- [686] Kuhn, T.S.: Przewrót kopernikański. Astronomia planetarna w dziejach myśli Zachodu. Prószyński i ska, Warszawa (2006)
- [687] Kulczycki, P., Kowalski, P.A.: Bayes classification of imprecise information of interval type. Control and Cybernetics 40(1), 101–123 (2011)
- [688] Kullback, S., Leibler, R.: On information and sufficiency. Annals of Mathematical Statistics 22(1), 79–86 (1951)
- [689] Kuś, M., Mankiewicz, L., Życzkowski, K.: Porównywanie indeksów Hirscha uczonych i instytucji naukowych. Biuletyn MNiSW 144(3), 30–33 (2009)
- [690] Kwakernaak, H.: Fuzzy random variables: I. Definitions and theorems. Information Sciences 15(1), 1–29 (1978)
- [691] Kärkkäinen, I., Fränti, P.: Dynamic local search algorithm for the clustering problem. In: Proc. 16th Intl. Conf. Pattern Recognition'02, vol. 2, pp. 240–243. IEEE (2002)
- [692] Lanctot, J.K., Li, M., Ma, B., Wang, S., Zhang, L.: Distinguishing string selection problems. Information and Computation 185, 41–55 (2003)
- [693] Land, A.H., Doig, A.G.: An automatic method of solving discrete programming problems. Econometrica 28(3), 497–520 (1960)
- [694] Lang, B.: Monotonic multi-layer perceptron networks as universal approximators. In: Proc. ICANN'05, vol. 3697, pp. 750–750 (2005)
- [695] Lang, R.: A note on the measurability of convex sets. Arch. Math 47, 90–92 (1986)

- [696] Lange, K.: Numerical Analysis for Statisticians. Springer-Verlag (2010)
- [697] Langerman, S., Steiger, W.: Computing a maximal depth point in the plane. In: Proc. Japan Conf. Discrete and Computational Geometry, pp. 46–47 (2000)
- [698] Langerman, S., Steiger, W.: Computing a high depth point in the plane. In: Developments in Robust Statistics, pp. 228–234 (2003)
- [699] 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)
- [700] 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)
- [701] 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)
- [702] Lavine, M.: Introduction to Statistical Thought (2010), www.math.umass.edu/~lavine/Book/book.html
- [703] Lawrence, H., Phipps, A.: Comparing partitions. Journal of Classification 2, 193–218 (1985)
- [704] Lawrence, M., Temple Lang, D.: RGtk2: A graphical user interface toolkit for R. Journal of Statistical Software 37(8), 1–52 (2010)
- [705] Lázaro, J., Calvo, T.: XAO operators The interval universe. In: Proc. Eusflat/LFA'05, pp. 189–197 (2005)
- [706] Le Gall, F.: Powers of tensors and fast matrix multiplication. In: Proc. 39th Intl. Symp. Symbolic and Algebraic Computation (ISSAC'14). pp. 296–303. ACM, New York (2014)
- [707] LeCun, Y., Bottou, L., Bengio, Y., Haffner, P.: Gradient-based learning applied to document recognition. Proceedings of the IEEE 86(11), 2278–2324 (1998)
- [708] LeCun, Y., Bengio, Y., Hinton, G.: Deep learning. Nature 521, 436–444 (2015)
- [709] Lee, E.: A simplified B-spline computation routine. Computing 29(4), 365–371 (1982)
- [710] Legendre, P., Legendre, L.: Numerical Ecology. Elsevier Science BV, Amsterdam (2003)
- [711] Lehmann, E.L.: Ordered families of distributions. Annals of Mathematical Statistics 26, 399–419 (1955)
- [712] Lehmann, E., Casella, G.: Theory of Point Estimation. Springer, New York (1988)
- [713] Lehmann, S., Jackson, A.D., Lautrup, B.E.: Measures for measures. Nature 444, 1003–1004 (2006)
- [714] Lehmann, S., Jackson, A.D., Lautrup, B.E.: A quantitative analysis of indicators of scientific performance. Scientometrics 76(2), 369–390 (2008)
- [715] Lehrer, E.: A new integral for capacities. Economic Theory 39(1), 157–176 (2009)
- [716] Lehtonen, E., Marichal, J.L., Teheux, B.: Associative string functions. Asian-European Journal of Mathematics 7, 1450059 (2014)
- [717] Leisch, F.: A toolbox for K-centroids cluster analysis. Computational Statistics & Data Analysis 51(2), 526–544 (2006)
- [718] Leisch, F., Grün, B.: Extending standard cluster algorithms to allow for group constraints. In: Rizzi, A., Vichi, M. (eds.) Proc. Computational Statistics (Compstat'06), pp. 885–892. Physica Verlag, Heidelberg, Germany (2006)
- [719] Lenstra Jr., H.: Integer programming with a fixed number of variables. Mathematics of Operations Research 8(4), 538–548 (1983)
- [720] Lessmann, M., Würtz, R.P.: Fast nearest neighbor search in pseudosemimetric spaces. In: Proc. VIS-APP'12, pp. 667–674 (2012)
- [721] Levenshtein, V.I.: Binary codes capable of correcting deletions, insertions, or reversals. Soviet Physics Doklady 10(8), 707–710 (1966)

- [722] Ley, C., Sabbah, C., Verdebout, T.: A new concept of quantiles for directional data and the angular Mahalanobis depth. Electronic Journal of Statistics 8(1), 795–816 (2014)
- [723] Leydesdorff, L.: Various methods for the mapping of science. Scientometrics 11(5-6), 295-324 (1987)
- [724] Leydesdorff, L.: Theories of citation? Scientometrics 43(1), 5–25 (1998)
- [725] Leydesdorff, L.: The non-linear dynamics of meaning-processing in social systems. Social Science Information 48(1), 5–33 (2009)
- [726] Leydesdorff, L., Opthof, T.: Scopus' source normalized impact per paper (snip) versus the journal impact factor based on fractional counting of citations. Journal of the American Society for Information Science and Technology 61(11), 2365–2396 (2010)
- [727] Li, J., Liu, R.Y.: New nonparametric tests of multivariate locations and scales using data depth. Statistical Science 19(4), 686–696 (2004)
- [728] Li, M., Ma, B., Wang, L.: On the closest string and substring problems. Journal of the ACM 49(2), 157–171 (2002)
- [729] Li, W.: Random texts exhibit Zipf's-law-like word frequency distribution. IEEE Transactions on Information Theory 38(6), 1842–1845 (1992)
- [730] Lin, S.: Rank aggregation methods. Wiley Interdisciplinary Reviews: Computational Statistics 2(5), 555–570 (2010)
- [731] Ling, R.F.: A probability theory of cluster analysis. Journal of the American Statistical Association 68(341), 159–164 (1973)
- [732] Lipschitz, R.O.S.: De explicatione per series trigonometricas instituenda functionum unius variabilis arbitrariarum, et praecipue earum, quae per variabilis spatium finitum valorum maximourm et minimorum numerum habent infinitum, disquisitio. Journal für die reine und angewandte Mathematik 63(2), 296–308 (1864)
- [733] Lipton, Z.C.: The mythos of model interpretability. In: Proc. ICML Workshop on Human Interpretability of Machine Learning'16. New York (2016)
- [734] Lisee, C., Lariviere, V., Archambault, E.: Conference proceedings as a source of scientific information: A bibliometric analysis. Journal of the American Society for Information Science and Technology 59(11), 1776–1784 (2008)
- [735] Liu, R.Y.: On a notion of data depth based on random simplices. Annals of Statistics 18, 405–414 (1990)
- [736] Liu, R.Y., Parelius, J.M., Singh, K.: Multivariate analysis by data depth: Descriptive statistics, graphics and inference. The Annals of Statistics 27(3), 783–858 (1999)
- [737] Liu, R.Y., Singh, K.: Ordering directional data: Concepts of data depth on circles and spheres. The Annals of Statistics 20(3), 1468–1484 (1992)
- [738] Liu, Y., Rousseau, R.: Hirsch-type indices and library management: The case of Tongji University Library. In: Torres-Salinas, D., Moed, H.F. (eds.) Proc. ISSI 2007. pp. 514–522. CINDOC-CSIC, Madrid (2007)
- [739] Liu, Y., Rousseau, R.: Definitions of time series in citation analysis with special attention to the h-index. Journal of Informetrics 2(3), 202–210 (2008)
- [740] Lizasoain, I.: Quasi-OWA operators on complete lattices. In: Bustince, H., Fernandez, J., Mesiar, R., Calvo, T. (eds.) Aggregation Functions in Theory and in Practise (AISC 228), pp. 521–532. Springer-Verlag (2013)
- [741] Lizasoain, I., Moreno, C.: OWA operators defined on complete lattices. Fuzzy Sets and Systems 224, 36–52 (2013)
- [742] Lopuhaä, H.P., Rousseeuw, P.J.: Breakdown points of affine equivariant estimators of multivariate location and covariance matrics. The Annals of Statistics 19(1), 229–248 (1991)
- [743] Lou, Y., Caruana, R., Gehrke, J., Hooker, G.: Accurate intelligible models with pairwise interactions. In: Proc. KDD'13, pp. 623–631. ACM, Chicago, IL (2013)

- [744] Lovisolo, L., da Silva, E.A.B.: Uniform distribution of points on a hyper-sphere with applications to vector bit-plane encoding. IEE Proceedings on Vision, Image and Signal Processing 148(3), 187–193 (2001)
- [745] Lowrance, R., Wagner, R.A.: An extension of the string-to-string correction problem. Journal of the ACM 22(2), 177–183 (1975)
- [746] Lucca, G., Sanz, J., Pereira Dimuro, G., Bedregal, B., Mesiar, R., Kolesárová, A., Bustince, H.: Preaggregation functions: construction and an application. IEEE Transactions on Fuzzy Systems (2015), in press, doi:10.1109/TFUZZ.2015.2453020
- [747] Lucchetti, R.: Convexity and Well-Posed Problems. CMS Books in Mathematics (2006)
- [748] Luceno, A.: Fitting the Generalized Pareto Distribution to data using maximum goodness-of-fit estimators. Computational Statistics and Data Analysis 1(2), 904–917 (2006)
- [749] Lughofer, E.: Evolving Fuzzy Systems: Methodologies, Advanced Concepts and Applications. Springer (2011)
- [750] Lughofer, E., et al.: Explaining classifier decisions linguistically for stimulating and improving operators labeling behavior. Information Sciences 420, 16–36 (2017)
- [751] Lunga, D., Prasad, S., Crawford, M.M., Ersoy, O.: Manifold-learning-based feature extraction for classification of hyperspectral data: A review of advances in manifold learning. IEEE Signal Processing Magazine 31(1), 55–66 (2014)
- [752] Ma, N., Guan, J., Zhao, Y.: Bringing PageRank to the citation analysis. Information Processing & Management 44, 800–810 (2008)
- [753] MacQueen, J.B.: Some methods for classification and analysis of multivariate observations. In: Proc. Fifth Berkeley Symp. on Math. Statist. and Prob., vol. 1, pp. 281–297. University of California Press, Berkeley (1967)
- [754] MacRoberts, M.H., MacRobierts, B.R.: Problems of citation analysis: A study of uncited and seldom-cited influences. Journal of the American Society for Information Science and Technology 61(1), 1–13 (2010)
- [755] Magdalena, L.: Fuzzy rule-based systems. In: Kacprzyk, J., Pedrycz, W. (eds.) Springer Handbook of Computational Intelligence, pp. 203–218. Springer, Berlin, Heidelberg (2015)
- [756] Magiera, R.: Modele i metody statystyki matematycznej. Część I. Rozkłady i symulacja stochastyczna. GiS, Wrocław (2007)
- [757] Magiera, R.: Modele i metody statystyki matematycznej. Część II. Wnioskowanie statystyczne. GiS, Wrocław (2007)
- [758] Mahalanobis, P.: On the generalized distance in statistics. Proceedings of the National Institute of Sciences of India 12, 49–55 (1936)
- [759] Makino, J.: Productivity of research groups Relation between citation analysis and reputation within research communities. Scientometrics 43(1), 87–93 (1998)
- [760] Mallig, N.: A relational database for bibliometric analysis. Journal of Informetrics 4(4), 564–580 (2010)
- [761] Marchant, T.: An axiomatic characterization of the ranking based on the h-index and some other bibliometric rankings of authors. Scientometrics 80(2), 325-342 (2009)
- [762] Marchant, T.: Score-based bibliometric rankings of authors. Journal of the American Society for Information Science and Technology 60(6), 1132–1137 (2009)
- [763] Mardia, K.: Statistics of directional data. Journal of the Royal Statistical Society. Series B (Methodological) 37(3), 349–393 (1975)
- [764] Mardia, K., Jupp, E.: Directional Statistics. Wiley (1999)
- [765] Marichal, J.L.: An axiomatic approach of the discrete Choquet integral as a tool to aggregate interacting criteria. IEEE Transactions on Fuzzy Systems 8(6), 800–807 (2000)

- [766] Marichal, J.L.: On an axiomatization of the quasi-arithmetic mean values without the symmetry axiom. Æquationes Mathematicæ 59(1–2), 74–83 (2000)
- [767] Marichal, J.L.: On Sugeno integral as an aggregation function. Fuzzy Sets and Systems 114, 347–365 (2000)
- [768] Marichal, J.L.: On the associativity functional equation. Fuzzy Sets and Systems 114(3), 381–389 (2000)
- [769] Marichal, J.L.: On order invariant synthesizing function. Journal of Mathematical Psychology 46(6), 661–676 (2002)
- [770] Marichal, J.L.: Cumulative distribution functions and moments of lattice polynomials. Statistics and Probability Letters 76, 1273–1279 (2006)
- [771] Marichal, J.L.: k-intolerant capacities and Choquet integrals. European Journal of Operational Research 177(3), 1453–1468 (2007)
- [772] Marichal, J.L.: Weighted lattice polynomials of independent random variables. Discrete Applied Mathematics 156, 685–694 (2008)
- [773] Marichal, J.L.: Weighted lattice polynomials. Discrete Mathematics 309, 814–820 (2009)
- [774] Marichal, J.L., Kojadinovic, I.: Distribution functions of linear combinations of lattice polynomials from the uniform distribution. Statistics and Probability Letters 78, 985–991 (2008)
- [775] Marichal, J.L., Mathonet, P.: On comparison meaningfulness of aggregation functions. Journal of Mathematical Psychology 45(2), 213–223 (2001)
- [776] Marichal, J.L., Mathonet, P., Tousset, E.: Characterization of some aggregation functions stable for positive linear transformations. Fuzzy Sets and Systems 102, 293–314 (1997)
- [777] Marichal, J.L., Mesiar, R.: Aggregation on finite ordinal scales by scale independent functions. Order 21(2), 155–180 (2004)
- [778] Marichal, J.L., Mesiar, R., Rückschlossova, T.: A complete description of comparison meaningful functions. Æquationes Mathematicæ 69, 309–320 (2005)
- [779] Marichal, J.L., Rubens, M.: Characterization of some stable aggregation functions. In: Proc. 1st Conf. Industrial Engineering and Production Management (IEPM'93), pp. 187–196 (1993)
- [780] Marichal, J.L., Teheux, B.: Preassociative aggregation functions. Fuzzy Sets and Systems 268, 15–26 (2015)
- [781] Marrara, S., Pasi, G., Viviani, M.: Aggregation operators in information retrieval. Fuzzy Sets and Systems 324(Supplement C), 3–19 (2017)
- [782] Marsaglia, G.: Choosing a point from the surface of a sphere. Annals of Mathematical Statistics 43, 645–646 (1972)
- [783] Marsaglia, G., Marsaglia, J.: Evaluating the Anderson-Darling distribution. Journal of Statistical Software 9(2) (2004)
- [784] Martín, J., Mayor, G., Suñer, J.: On dispersion measures. Mathware & Soft Computing 8, 227–237 (2001)
- [785] Martin, J., Mayor, G.: Aggregating pairwise distance values. In: Proc. EUROFUSE'09, pp. 147–152 (2009)
- [786] Martin, J., Mayor, G.: How separated Palma, Inca and Manacor are? In: Proc. AGOP 2009, pp. 195–200 (2009)
- [787] Martin, J., Mayor, G.: Some properties of multi-argument distances and Fermat multidistance. In: Hüllermeier, E., et al. (eds.) Information Processing and Management of Uncertainty in Knowledge-Based Systems, vol. 80, pp. 703–711. Springer-Verlag (2010)
- [788] Martin, J., Mayor, G.: Multi-argument distances. Fuzzy Sets and Systems 167, 92–100 (2011)
- [789] Martín, J., Mayor, G.: Dispersion measures and multidistances on  $\mathbb{R}^k$ . In: Ferraro, M.B., et al. (eds.) Soft Methods for Data Science, pp. 347–354. Springer (2017)

- [790] Martin, J., Mayor, G., Valero, O.: A fixed point theorem for asymmetric distances via aggregation functions. In: Proc. 6th Intl. Summer School on Aggregation Operators (AGOP 2011), pp. 217–222. Benevento, Italy (2011)
- [791] Martin, J., Mayor, G., Valero, O.: Functionally expressible multidistances. In: Galichet, S., et al. (eds.) Proc. Eusflat/LFA'11, pp. 41–46 (2011)
- [792] Martínez-Hinarejos, C., Juan, A., Casacuberta, F.: Median strings for k-nearest neighbour classification. Pattern Recognition Letters pp. 173–181 (2003)
- [793] Martínez-Panero, M., García-Lapresta, J.L., Meneses, L.C.: Multidistances and dispersion measures. Studies in Fuzziness and Soft Computing 339, 123–134 (2016)
- [794] Marzal, A., Vidal, E.: Computation of normalized edit distance and applications. IEEE Transactions on Pattern Analysis and Machine Intelligence 15(9), 926–932 (1993)
- [795] Masek, W.J., Pateson, M.S.: A faster algorithm computing string edit distances. Journal of Computer and System Sciences 20, 18–31 (1980)
- [796] Massé, J.C.: Multivariate trimmed means based on the Tukey depth. Journal of Statistical Planning and Interference 139, 366–384 (2009)
- [797] Massé, J.C., Plante, J.F.: A Monte Carlo study of the accuracy and robustness of ten bivariate location estimators. Computational Statistics & Data Analysis 42, 1–26 (2003)
- [798] Matloff, N., Salzman, P.: The Art of Debugging with GDB, DDD, and Eclipse. No Starch Press (2008)
- [799] Matloff, N.: The Art of R Programming: A Tour of Statistical Software Design. No Starch Press (2011)
- [800] Matsumoto, M., Nishimura, T.: Mersenne twister: A 623-dimensionally equidistributed uniform pseudorandom number generator. ACM Transactions on Modeling and Computer Simulation 8(1), 3–30 (1998)
- [801] May, K.O.: A set of independent necessary and sufficient conditions for simple majority decision. Econometrica 20(4), 680–684 (1952)
- [802] May, K.O.: A note of the complete independence of the conditions for simple majority decision. Econometrica 21(1), 172–173 (1953)
- [803] Mayor, G., Calvo, T.: On extended aggregation functions. In: Proc. IFSA 1997, vol. 1, pp. 281–285. Academia, Prague (1997)
- [804] Mays, E., Damerau, F.J., Mercer, R.L.: Context based spelling correction. Information Processing & Management 27(2), 517–522 (1991)
- [805] Mazumdar, A., Polyanskiy, Y., Saha, B.: On Chebyshev radius of a set in Hamming space and the closest string problem. In: Proc. IEEE Intl. Symp. Information Theory, pp. 1401–1405. IEEE (2013)
- [806] Meho, L.I., Rogers, Y.: Citation counting, citation ranking, and h-index of human-computer interaction researchers: A comparison between Scopus and Web of Science. Journal of the American Society for Information Science and Technology 59(11), 1711–1726 (2008)
- [807] Meho, L.I., Sugimoto, C.R.: Assessing the scholarly impact of information studies: A tale of two citation databases *Scopus* and *Web of Science*. Journal of the American Society for Information Science and Technology 60(12), 2499–2508 (2009)
- [808] Mendel, F., Nad, T., Schläffer, M.: Improving local collisions: New attacks on reduced SHA-256. Lecture Notes in Computer Science 7881, 262–278 (2013)
- [809] Meneses, C.N., Lu, Z., Oliveira, C.A.S., Pardalos, P.M.: Optimal solutions for the closest-string problem via integer programming. INFORMS Journal on Computing 16(4), 419–429 (2004)
- [810] Merigó, J.M., Casanovas, M., Yang, J.B.: Group decision making with expertons and uncertain generalized probabilistic weighted aggregation operators. European Journal of Operational Research 235, 215–224 (2014)
- [811] Mesiar, R.: Integration based on decomposition, seminar tutorial slides, Warsaw, Poland, December 11, 2014.

- [812] Mesiar, R.: Fuzzy set approach to the utility, preference relations, and aggregation operators. European Journal of Operational Research 176, 414–422 (2007)
- [813] 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)
- [814] Mesiar, R., Kolesárová, A., Komorníková, M.: Aggregation functions on [0, 1]. In: Kacprzyk, J., Pedrycz, W. (eds.) Handbook of Computational Intelligence, pp. 61–74. Springer (2015)
- [815] Mesiar, R., Mesiarová-Zemánková, A.: The ordered modular averages. IEEE Transactions on Fuzzy Systems 19(1), 42–50 (2011)
- [816] Mesiar, R., Pap, E.: Aggregation of infinite sequences. Information Sciences 178, 3557–3564 (2008)
- [817] Mesiar, R., Rückschlossova, T.: Characterization of invariant aggregation operators. Fuzzy Sets and Systems 142, 63–73 (2004)
- [818] Mesiar, R., Stupňanová, A.: Decomposition integrals. International Journal of Approximate Reasoning 54(8), 1252–1259 (2013)
- [819] Meyer, D., Hornik, K.: relations: Data Structures and Algorithms for Relations (2013), http://CRAN. R-project.org/package=relations, r package version 0.6-2
- [820] Miao, J., Niu, L.: A survey on feature selection. Procedia Computer Science 91, 919–926 (2016)
- [821] Micó, L., Oncina, J.: An approximate median search algorithm in non-metric spaces. Pattern Recognition Letters 22, 1145–1151 (2001)
- [822] Milasevic, P., Ducharme, G.: Uniqueness of the spatial median. The Annals of Statistics 15(3), 1332–1333 (1987)
- [823] Milligan, G.W.: Ultrametric hierarchical clustering algorithms. Psychometrika 44(3), 343–346 (1979)
- [824] Mingers, J., Lipkins, E.A.: Counting the citations: A comparison of Web of Science and Google Scholar in the field of business and management. Scientometrics 85, 613–625 (2010)
- [825] Miroiu, A.: Axiomatizing the hirsch index: Quantity and quality disjoined. Journal of Informetrics 7, 10–15 (2013)
- [826] Mittal, H.: R Graphs Cookbook. Packt Publishing (2011)
- [827] Miyamoto, S.: Application of rough sets to information retrieval. Journal of the American Society for Information Science 49(3), 195–205 (1998)
- [828] Moed, H.F.: Measuring contextual citation impact of scientific journals. Journal of Informetrics 4(3), 265-277 (2010)
- [829] Molinari, J.: A calibrated index for the measurement of evenness. Oikos 56, 319–326 (1989)
- [830] Monahan, J.: Numerical Methods of Statistics. Oxford University Press (2001)
- [831] Moore, R.: Interval arithmetic and automatic error analysis in digital computing. Tech. Rep. 25 NR-0440211, Department of Mathematics, Stanford University, Stanford, California (1962)
- [832] Morgan, H.L.: Spelling correction in systems programs. Journal of the ACM 13(2), 90–94 (1970)
- [833] Mosteller, C.F., Tukey, J.W.: Data analysis and regression. Addison-Wesley, Reading, Mass. (1977)
- [834] Möttönen, J., Nordhausen, K., Oja, H.: Asymptotic theory of the spatial median. Nonparametrics and Robustness in Modern Statistical Inference and Time Series 7, 182–193 (2010)
- [835] Moyano, L.G.: Learning network representations. The European Physical Journal 226(3), 499–518 (2017)
- [836] M.R. Garey, D.S. Johnson, H.W.: The complexity of the generalized Lloyd-Max problem. IEEE Transactions on Information Theory IT-28(2), 255–256 (1982)
- [837] Muenchen, R.: R for SAS and SPSS Users. Springer-Verlag (2011)
- [838] Muenchen, R., Hilbe, J.: R for Stata Users. Springer-Verlag (2010)

- [839] Müller, A.C., Nowozin, S., Lampert, C.H.: Information theoretic clustering using minimum spanning trees. In: Proc. German Conference on Pattern Recognition (2012)
- [840] Müllner, D.: Modern hierarchical, agglomerative clustering algorithms. ArXiv:1109.2378 [stat.ML] (2011), http://arxiv.org/abs/1109.2378
- [841] Müllner, D.: fastcluster: Fast hierarchical, agglomerative clustering routines for R and Python. Journal of Statistical Software 53(9), 1–18 (2013)
- [842] Murrell, P.: R Graphics. Chapman & Hall/CRC (2006)
- [843] Murrell, P.: Raster images in R graphics. The R Journal 3(1), 48–54 (2011)
- [844] Nagler, T., Czado, C.: Evading the curse of dimensionality in nonparametric density estimation with simplified vine copulas. Journal of Multivariate Analysis 151, 69–89 (2016)
- [845] Nagumo, M.: Über eine Klasse der Mittelwerte. Japanese Journal of Mathematics 7, 71–79 (1930)
- [846] Nair, G.M., Turlach, B.A.: The stochastic h-index. Journal of Informetrics 6(1), 80–87 (2012)
- [847] Narukawa, Y., Torra, V.: Multidimensional generalized fuzzy integral. Fuzzy Sets and Systems 160, 802–815 (2009)
- [848] Nasıbov, E., Kandemir-Cavas, C.: OWA-based linkage method in hierarchical clustering: Application on phylogenetic trees. Expert Systems with Applications 38, 12684–12690 (2011)
- [849] Nasibov, E.N., Peker, S.: On the nearest parametric approximation of a fuzzy number. Fuzzy Sets and Systems 159(11), 1365–1375 (2008)
- [850] Navarro, G.: A guided tour to approximate string matching. ACM Computing Surveys 33(1), 31–88 (2001)
- [851] Nee, S., Harvey, P., Cotgreave, P.: Population persistence and the natural relationship between body size and abundance. In: Conservation of biodiversity for sustainable development, pp. 124–136. Scandinavian University Press, Oslo (1992)
- [852] Needleman, S., Wunsch, C.D.: A general method applicable to the search of similarities in the amino acid sequence of two proteins. Journal of Molecular Biology 48, 443–453 (1970)
- [853] Nelder, J., Mead, R.: A simplex method for function minimization. Computer Journal 7, 308–313 (1965)
- [854] Nelsen, R.: An Introduction to Copulas. Springer-Verlag (1999)
- [855] Neumann, K., Rolf, M., Steil, J.J.: Reliable integration of continuous constraints into extreme learning machines. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems 21 (suppl. 2), 35–50 (2013)
- [856] Nicholls, P.T.: Estimation of Zipf parameters. Journal of the American Society for Information Science 38(6), 443–445 (1987)
- [857] Nicholls, P.T.: Bibliometric modeling processes and the empirical validity of Lotka's law. Journal of the American Society for Information Science 40(6), 379–385 (1989)
- [858] Nicolas, F., Rivals, E.: Complexities of the centre and median string problems. Lecture Notes in Computer Science 2676, 315–327 (2003)
- [859] Nicolas, F., Rivals, E.: Hardness results for the center and median string problems under the weighted and unweighted edit distances. Journal of Discrete Algorithms 3(2–4), 390–415 (2005)
- [860] Nicolini, C., Vakula, S., Italo Balla, M., Gandini, E.: Can the assignment of university chairs be automated? Scientometrics 32(2), 93–107 (1995)
- [861] Nienkötter, A., Jiang, X.: Improved prototype embedding based generalized median computation by means of refined construction methods. Lecture Notes in Computer Science 10029, 107–117 (2016)
- [862] Niinimaa, A., Oja, H., Nyblom, J.: Algorithm AS 277: The Oja bivariate median. Journal of the Royal Statistical Society. Series C (Applied Statistics) 41(3), 611–633 (1992)
- [863] Niinimaa, A., Oja, H., Tableman, M.: The finite-sample breakdown point of the oja bivariate median and of the corresponding half-samples version. Statistics & Probability Letters 10, 325–328 (1990)

- [864] Nocedal, J., Wright, S.: Numerical Optimization. Springer-Verlag, New York (2006)
- [865] Noda, R., Sakai, T., Morimoto, M.: Generalized Fermat's problem. Canadian Mathematical Bulletin 34, 96–104 (1991)
- [866] Norris, M., Oppenheim, C.: Peer review and the h-index: Two studies. Journal of Informetrics 4, 221–232 (2010)
- [867] Nowak, P.: Bibliometria. Webometria. Podstawy. Wybrane zastosowania. UAM, Poznań (2008)
- [868] Oetiker, T., Przechlewski, T., i in., R.K.: Nie za krótkie wprowadzenie do systemu IATEX  $2_{\varepsilon}$  (2007), ftp.gust.org.pl/pub/CTAN/info/lshort/polish/lshort2e.pdf
- [869] Ohki, M., Murofushi, T.: A ranking methodology using a new dispersion criterion on a group decision making. In: Proc. SCIS-ISIS 2012. pp. 1649–1653 (2012)
- [870] Oja, H.: Descriptive statistics for multivariate distributions. Statistics & Probability Letters 1, 327–332 (1983)
- [871] Olivares-Rodríguez, C., Oncina, J.: A stochastic approach to median string computation. Lecture Notes in Computer Science 5342, 431–440 (2008)
- [872] Olson, C.F.: Parallel algorithms for hierarchical clustering. Parallel Computing 21, 1313–1325 (1995)
- [873] Oommen, B.: Constrained string editing. Information Sciences 40, 267–284 (1986)
- [874] Orlov, A.I.: The connection between mean quantities and admissible transformations. Mathematical Notes 30(4), 774–778 (1981)
- [875] Ortega, J.L., López-Romero, E., Fernández, I.: Multivariate approach to classify research institutes according to their outputs: The case of the CSIC's institutes. Journal of Informetrics 5, 323–332 (2011)
- [876] Otieno, B.S.: An Alternative Estimate of Preferred Direction for Circular Data. Ph.D. thesis, Virginia Polytechnic Institute and State University (2002)
- [877] Otte, C.: Safe and interpretable machine learning: A methodological review. In: Studies in computational intelligence, vol. 445, pp. 111–122. Springer (2013)
- [878] Ovchinnikov, S.: Means on ordered sets. Mathematical Social Sciences 32, 39–56 (1996)
- [879] Ovchinnikov, S.: Invariant functions on simple orders. Order 14, 365–371 (1998)
- [880] Ovchinnikov, S., Dukhovny, A.: On order invariant aggregation functionals. Journal of Mathematical Psychology 46, 12–18 (2002)
- [881] Page, L., Brin, S., Motwani, R., Winograd, T.: The PageRank citation ranking: Bringing order to the Web. Tech. rep., Stanford University (1998)
- [882] Pagola, M., Forcen, J.I., Barrenechea, E., Lopez-Molina, C., Bustince, H.: Use of OWA operators for feature aggregation in image classification. In: Proc. FUZZ-IEEE'17, pp. 1–6. IEEE (2017)
- [883] Palacios-Huerta, I., Volij, O.: The measurement of intellectual influence. Econometrica 72(3), 963–977 (2004)
- [884] Panaretos, J., Malesios, C.: Assessing scientific research performance and impact with single indices. Scientometrics 81(3), 635–670 (2009)
- [885] Papadimitriou, C., Steiglitz, K.: Combinatorial Optimization: Algorithms and Complexity. Prentice Hall, Englewood Cliffs, NJ (1982)
- [886] Park, H.S., Jun, C.H.: A simple and fast algorithm for K-medoids clustering. Expert Systems with Applications 36, 3336–3341 (2009)
- [887] Parzen, E.: On estimation of a probability density function and mode. The Annals of Mathematical Statistics 33(3), 1065–1076 (1962)
- [888] Pearson, K.: Contributions to the mathematical theory of evolution. Philosophical Transactions of the Royal Society A 185, 71–110 (1894)

- [889] Pedrycz, W.: Shadowed sets: Representing and processing fuzzy sets. IEEE Transactions on Systems, Man, and Cybernetics 28(1), 103–109 (1998)
- [890] Pedrycz, W., Skowron, A., Kreinovich, V. (eds.): Handbook of Granular Computing. John Wiley and Sons, Chichester (2008)
- [891] Peneva, V., Popchev, I.: Aggregation of fuzzy preference relations to multicriteria decision making. Fuzzy Optimization and Decision Making 6, 351–365 (2007)
- [892] Pérez, A., Larranaga, P., Inza, I.: Bayesian classifiers based on kernel density estimation: Flexible classifiers. International Journal of Approximate Reasoning 50, 341–362 (2009)
- [893] Pérez-Fernández, R., Rademaker, M., De Baets, B.: Monometrics and their role in the rationalisation of ranking rules. Information Fusion 34, 16–27 (2017)
- [894] Peters, G.: Granular box regression. IEEE Transactions on Fuzzy Systems 19, 1141–1152 (2011)
- [895] Peters, G., Lacic, Z.: Tackling outliers in granular box regression. Information Sciences 212, 44–56 (2012)
- [896] Peterson, W., Brown, D.: Cyclic codes for error detection. Proceedings of the IRE 49(1), 228–235 (1961)
- [897] Pielou, E.: An Introduction to Mathematical Ecology. Wiley-Interscience, New York (1969)
- [898] Pielou, E.: Ecological Diversity. Wiley, New York (1975)
- [899] Pielou, E.: Mathematical Ecology. Wiley, New York (1977)
- [900] Pitman, E.: The estimation of the location and scale parameters of a continuous population of any given form. Biometrika 30, 391–421 (1939)
- [901] Podlubny, I.: Comparison of scientific impact expressed by the number of citations in different fields of science. Scientometrics 64(1), 95–99 (2005)
- [902] Potharst, R., Bioch, J.: A decision tree algorithm for ordinal classification. Lecture Notes in Computer Science 1642, 187–198 (1999)
- [903] Potharst, R., Bioch, J., Petter, T.: Monotone decision trees. Tech. Rep. EUR-FEW-CS-97-06, Erasmus University Rotterdam (1997)
- [904] Powell, M.J.D.: A direct search optimization method that models the objective and constraint functions by linear interpolation. In: Advances in Optimization and Numerical Analysis, Mathematics and Its Applications, vol. 275, pp. 51–67 (1994)
- [905] Powell, M.J.D.: The BOBYQA algorithm for bound constrained optimization without derivatives. Tech. Rep. NA2009/06, Department of Applied Mathematics and Theoretical Physics, Cambridge England (2009)
- [906] Prade, H., Rico, A., Serrurier, M.: Elicitation of Sugeno integrals: A version space learning perspective. Lecture Notes in Computer Science 5722, 392–401 (2009)
- [907] Prange, E.: Cyclic error-correcting codes in two symbols. Tech. Rep. AFCRC-TN-57-103, Air Force Cambridge Research Center, Bedford, Mass. (1957)
- [908] Prathap, G.: Is there a place for a mock h-index? Scientometrics 84, 153–165 (2010)
- [909] Press, W., Teukolsky, S., Vetterling, W., Flannery, B.: Numerical Recipes. The Art of Scientific Computing. Cambridge University Press (2007)
- [910] Price, D.J.: Networks of scientific papers. Science 149(3683), 510–515 (1965)
- [911] Proń, A., Szatyłowicz, H.: Habilitacja dodaje "skrzydeł"? Forum Akademickie 3 (2006)
- [912] Prpić, K.: Science ethics: A study of eminent scientists' professional values. Scientometrics 43(2), 269–298 (1998)
- [913] Puerta, C., Urrutia, A.: A dual decomposition of the single-parameter Gini social evaluation functions. In: Proc. IFSA/EUSFLAT'15, pp. 70–76. Atlantis Press (2015)
- [914] Puerto, J., Rodríguez-Chía, A.M.: Location of a moving service facility. Mathematical Methods of Operations Research 49(3), 373–393 (1999)

- [915] Puerto, J., Rodríguez-Chía, A.M.: New models for locating a moving service facility. Mathematical Methods of Operations Research 63(1), 31–51 (2006)
- [916] Puri, M.L., Ralescu, D.A.: Fuzzy random variables. Journal of Mathematical Analysis and Applications 114(2), 409–422 (1986)
- [917] Quesada, A.: Monotonicity and the Hirsch index. Journal of Informetrics 3(2), 158–160 (2009)
- [918] Quesada, A.: More axiomatics for the Hirsch index. Scientometrics 82, 413–418 (2010)
- [919] Quesada, A.: Axiomatics for the hirsch index and the egghe index. Journal of Informetrics 5(3), 476–480 (2011)
- [920] Quesada, A.: Further characterizations of the Hirsch index. Scientometrics 87, 107–114 (2011)
- [921] Quinlan, J.R.: Induction of decision trees. Machine Learning 1, 81–106 (1986)
- [922] R Development Core Team: R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria (2017), http://www.R-project.org
- [923] Radavanovic, M., Nanopoulos, A., Ivanovic, M.: Hubs in space: Popular nearest neighbors in high-dimensional data. Journal of Machine Learning Research 11, 2487–2531 (2010)
- [924] Rademacher, L.: Approximating the centroid is hard. In: Symposium on Computational Geometry, pp. 302–305 (2007)
- [925] Rademaker, M., De Baets, B.: A threshold for majority in the context of aggregating partial order relations. In: Proc. 19th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'10), pp. 1–4. IEEE, Barcelona, Spain (2010)
- [926] Rademaker, M., De Baets, B.: Aggregation of monotone reciprocal relations with application to group decision making. Fuzzy Sets and Systems 184(1), 29–51 (2011)
- [927] Rademaker, M., De Baets, B.: A ranking procedure based on a natural monotonicity constraint. Information Fusion 17(1), 74–82 (2014)
- [928] Rademaker, M., De Baets, B., De Meyer, H.: Optimal monotone relabelling of partially non-monotone ordinal data. Optimization Methods and Software 27(1), 17–31 (2012)
- [929] Rajagopalan, S., Schulman, L.J.: Verification of identities. SIAM Journal on Computing 29(4), 1155–1163 (2000)
- [930] Rand, W.M.: Objective criteria for the evaluation of clustering methods. Journal of the American Statistical Association 66(336), 846–850 (1971)
- [931] Rao, C.R.: Statistics and truth. Putting chance to work. World Scientific Publishing (1999)
- [932] Rardin, R.: Optimization in Operations Research. Prentice Hall, Englewood Cliffs (1998)
- [933] Rasiowa, H.: Wstęp do matematyki współczesnej. PWN, Warszawa (2003)
- [934] Reiser, R.H., Bedregal, B., Baczyński, M.: Aggregating fuzzy implications. Information Sciences 253, 126–146 (2013)
- [935] Rényi, A.: On the dimension and entropy of probability distributions. Acta Mathematica Hungarica 10(1-2), 193-215 (1959)
- [936] Ribeiro, M.T., Singh, S., Guestrin, C.: Why should I trust you?: Explaining the predictions of any classifier. In: Proc. KDD'16, pp. 1135–1144 (2016)
- [937] Richardson, M., Domingos, P.: The intelligent surfer: Probabilistic combination of link and content information in PageRank. In: Proc. Advances in Neural Information Processing Systems. vol. 14, pp. 1441–1448. MIT Press, Cambridge, MA (2002)
- [938] Ricotta, C.: A recipe for unconventional evenness measures. Acta Biotheoretica 52, 95–104 (2004)
- [939] Ricotta, C., de Zuliani, E., Pacini, A., Avena, G.: On the mutual relatedness of evenness measures. Community Ecology 2(1), 51–56 (2001)

- [940] Riihimäki, J., Vehtari, A.: Gaussian processes with monotonicity information. In: Proc. AISTATS'10, pp. 645–652. Sardinia, Italy (2010)
- [941] Rios, L.M., Sahinidis, N.V.: Derivative-free optimization: A review of algorithms and comparison of software implementations. Journal of Global Optimization 56, 1247–1293 (2013)
- [942] Ripley, B.: Internationalization features of R 2.1.0. R News 5(1), 2–7 (2005)
- [943] Ristad, E.S., Yianilos, P.N.: Learning string-edit distance. IEEE Transactions on Pattern Analysis and Machine Intelligence 20(5), 522–532 (1998)
- [944] Robert, C., Casella, G.: Monte Carlo Statistical Methods. Springer-Verlag (2004)
- [945] Rockafellar, R.T.: Convex Analysis. Princeton University Press, New Jersey (1970)
- [946] Rojas, K., Gómez, D., Rodríguez, J.T., Montero, J.: Some properties of consistency in the families of aggregation operators. Advances in Intelligent and Soft Computing 107, 169–176 (2012)
- [947] Ronkainen, T., Oja, H., Orponen, P.: Coputation of the multivariate Oja median. In: Proc. Intl. Conf. Robust Statistics, pp. 344–359 (2003)
- [948] de la Rosa de Sáa, S., Gil, M.A., González-Rodríguez, G., López, M.T., Lubiano, M.A.: Fuzzy rating scale-based questionnaires and their statistical analysis. IEEE Transactions on Fuzzy Systems 23(1), 111–126 (2015)
- [949] Rothschild, M., Stiglitz, J.: Increasing risk: I. A definition. Journal of Economic Theory 2(3), 225–243 (1970)
- [950] Roubens, M., Vincke, P.: Preference modeling. Lecture Notes in Economics and Mathematical Systems 250, Springer-Verlag, Berlin (1985)
- [951] Rousseau, R.: Relations between continuous versions of bibliometric laws. Journal of the American Society for Information Science 41(3), 197–203 (1990)
- [952] Rousseau, R.: Citation analysis as a theory of friction or polluted air? Scientometrics 43(1), 63–67 (1998)
- [953] Rousseau, R.: The influence of missing publications on the Hirsch index. Journal of Informetrics 1(1), 2–7 (2007)
- [954] Rousseau, R.: Reflections on recent developments of the h-index and h-type indices. COLLNET Journal of Scientometrics and Information Management 2(1), 1–8 (2008)
- [955] Rousseau, R.: Woeginger's axiomatisation of the h-index and its relation to the g-index, the h(2)-index and the  $r^2$ -index. Journal of Informetrics 2(4), 335–340 (2008)
- [956] Rousseeuw, P.J., Croux, C.: Alternatives to the median absolute deviation. Journal of the American Statistical Association 88(424), 1273–1283 (1993)
- [957] Rousseeuw, P.J., Hubert, M.: Regression depth. Journal of the American Statistical Association 94(446), 388–402 (1999)
- [958] Rousseeuw, P.J., Ruts, I.: Algorithm AS 307: Bivariate location depth. Applied Statistics 45, 516–526 (1996)
- [959] Rousseeuw, P.J., Ruts, I.: Constructing the bivariate Tukey median. Statistica Sinica 8, 827–839 (1998)
- [960] Rousseeuw, P.J., Ruts, I., Tukey, J.W.: The bagplot: A bivariate boxplot. The American Statistician 53(4), 382–387 (1999)
- [961] Rousseeuw, P.J., Struyf, A.: Computing location depth and regression depth in higher dimensions. Statistics and Computing 8, 193–203 (1998)
- [962] Rousseeuw, P.J., Struyf, A.: Computation of robust statistics: depth, median, and related measures. In: Goodman, J.E., O'Rourke, J. (eds.) The Handbook of Discrete and Computational Geometry, pp. 1279–1292. Chapman & Hall/CRC, Boca Raton (2004)
- [963] Rousseeuw, P.J., Van Aelst, S., Hubert, M.: Regression depth: Rejoinder. Journal of the American Statistical Association 94(446), 419–433 (1999)

- [964] Rousseuw, P.J., Ruts, I.: The depth function of a population distribution. Metrika 49, 213–244 (1999)
- [965] Routledge, R.: Evenness indices: Are any admissible? Oikos 40, 149–151 (1983)
- [966] Rowan, T.: Functional Stability Analysis of Numerical Algorithms. Ph.D. thesis, Department of Computer Sciences, University of Texas, Austin (1990)
- [967] Rubin, D., Little, R.: Statistical Analysis with Missing Data. John Wiley & Sons (2002)
- [968] Ruts, I., Rousseeuw, P.J.: Computing depth contours of bivariate point clouds. Computational Statistics & Data Analysis 23, 153–168 (1996)
- [969] Rytgaard, M.: Estimation in the Pareto distribution. ASTIN bulletin 20(2), 201–216 (1990)
- [970] Rådström, H.: An embedding theorem for spaces of convex sets. Proceedings of the American Mathematical Society 3, 165–169 (1952)
- [971] Sáanchez, G., Lladós, J., Tombre, K.: A mean string algorithm to compute the average among a set of 2D shapes. Pattern Recognition Letters 23, 203–213 (2002)
- [972] Saaty, T.: Fundamentals of decision making and priority theory with the analytic hierarchy process. RWS Publications, Pittsburgh (1994)
- [973] Sanchez, D., Trillas, E.: Measures of fuzziness under different uses of fuzzy sets. In: Greco, S., et al. (eds.) Proc. IPMU 2012 (CCIS 298). pp. 25–43. Springer-Verlag (2012)
- [974] Sarkar, D.: Lattice: Multivariate Data Visualization with R. Springer-Verlag (2008)
- [975] Schmidberger, M., Morgan, M., Eddelbuettel, D., Yu, H., Tierney, L., Mansmann, U.: State of the art in parallel computing with R. Journal of Statistical Software 31(1), 1–27 (2009)
- [976] Schmidt, M., Lipson, H.: Distilling free-form natural laws from experimental data. Science 324(5923), 81–85 (2009)
- [977] Schön, J.H., et al.: Field-effect modulation of the conductance of single molecules. Science 2138(294) (2001), artykuł został wycofany z powodu fałszerstwa wyników (przykład do rozdz. 1).
- [978] Schönherr, S.: Quadratic Programming in Geometric Optimization: Theory, Implementation, and Applications. Ph.D. thesis, Swiss Federal Institute of Technology, Zurich, Switzerland (2002)
- [979] Schreiber, M.: How to modify the g-index for multi-authored manuscripts. Journal of Informetrics 4(1), 42-52 (2001)
- [980] Schreiber, M.: A case study of Hirsch index for 26 non-prominent physicists. Annalen der Physik 16(9), 640–652 (2007)
- [981] Schreiber, M.: A modification of the h-index: The  $h_m$ -index accounts for multi-authored manuscripts. Journal of Informetrics 2(3), 211–216 (2008)
- [982] Schreiber, M.: A case study of the modified Hirsch index  $h_m$  accounting for multiple coauthors. Journal of the American Society for Information Science and Technology 60(6), 1274–1282 (2009)
- [983] Schreiber, M.: Fractionalized counting of publications for the g-index. Journal of the American Society for Information Science and Technology 60(10), 2145-2150 (2009)
- [984] Schubert, A.: Using the h-index for assessing single publications. Scientometrics 78(3), 559–565 (2009)
- [985] Schubert, A., Glänzel, W.: A systematic analysis of Hirsch-type indices for journals. Journal of Informetrics 1, 179–184 (2007)
- [986] Schubert, A., Korn, A., Telcs, A.: Hirsch-type indices for characterizing networks. Scientometrics 78(2), 375–382 (2009)
- [987] Schumaker, L.: Spline Functions: Basic Theory. Cambridge University Press (2007)
- [988] Schutte, H.K., Svec, J.G.: Reaction of Folia Phoniatrica et Logopaedica on the current trend of Impact Factor measures. Folia Phoniatrica et Logopaedica 59, 281–285 (2007)
- [989] Schweizer, B., Sklar, A.: Probabilistic Metric Spaces. Elsevier, Amsterdam (1983)

- [990] of Science Editors, E.A.: EASE statement on inappropriate use of impact factors (1998), URL: http://www.ease.org.uk/statements/EASE statement on impact factors.shtml
- [991] Serfling, R.J.: Approximation theorems of mathematical statistics. John Wiley & Sons, New York (1980)
- [992] Shannon, C.: A mathematical theory of communications. Bell System Technical Journal 27(3), 379–423 (1948)
- [993] Shao, J.: Mathematical Statistics. Springer, New York (2007)
- [994] Sheikhpour, R., Sarram, M.A., Gharaghani, S., Chahooki, M.A.Z.: A survey on semi-supervised feature selection methods. Pattern Recognition 64, 141–158 (2017)
- [995] Shevtsova, I.G.: Sharpening of the upper bound of the absolute constant in the Berry-Esseen inequality. Theory of Probability and its Applications 51(3) (2007)
- [996] Shiganov, I.S.: Refinement of the upper bound of the constant in the central limit theorem. Journal of Mathematical Sciences 35(3), 2545–2550 (1986)
- [997] Shilkret, N.: Maxitive measure and integration. Indagationes Mathematicæ33, 109–116 (1971)
- [998] Shively, T.S., Sager, T.W., Walker, S.G.: A Bayesian approach to non-parametric monotone function estimation. Journal of the Royal Statistical Society, Series B 71(1), 159–175 (2009)
- [999] Shumway, R., D.S., D.S.: Time Series Analysis and Its Applications with R Examples. Springer-Verlag (2011)
- [1000] Sidiropoulos, A., Katsaros, D., Manolopoulos, Y.: Generalized h-index for disclosing latent facts in citation networks. Scientometrics 72(2), 253–280 (2007)
- [1001] Silberschatz, A., Peterson, J., Gagne, G.: Podstawy systemów operacyjnych. WNT, Warszawa (2005)
- [1002] Simkin, M.V., Roychowdhury, V.P.: Read before you cite! Complex Syst. 14, 269–274 (2003)
- [1003] Simovici, D., Jaroszewicz, S.: An axiomatization of partition entropy. IEEE Transactions on Information Theory 48(7), 2138–2142 (2002)
- [1004] Simpson, E.: Measurement of diversity. Nature 163, 688 (1949)
- [1005] Sinova, B., Casals, M., Colubi, A., Ángeles Gil, M.: The median of a random interval. In: Borgelt, C., et al. (eds.) Combining Soft Computing and Statistical Methods in Data Analysis, pp. 575–583. Springer (2010)
- [1006] Sinova, B., Ángeles Gil, M., Colubi, A., Van Aelst, S.: The median of a random fuzzy number. The 1-norm distance approach. Fuzzy Sets and Systems 200, 99–115 (2012)
- [1007] Sinova, B., Gonzales-Rodriguez, G., Van Aelst, S.: An alternative approach to the median of a random interval using an  $l_2$  metric. In: Kruse, R., et al. (eds.) Synergies of Soft Computing and Statistics for Intelligent Data Analysis, pp. 273–281. Springer (2013)
- [1008] Sinova, B., Pérez-Fernández, S., Montenegro, M.: The Wabl/Ldev/Rdev median of a random fuzzy number and statistical properties. In: Grzegorzewski, P., et al. (eds.) Strengthening Links between Data Analysis and Soft Computing, pp. 143–150. Springer (2015)
- [1009] Sklar, A.: Fonctions de répartition à n dimensions et leurs marges. Publications de l'Institut de Statistique de L'Université de Paris 8 (1959)
- [1010] Small, C.G.: Measures of centrality for multivariate and directional distributions. Canadian Journal of Statistics 15(1), 31–39 (1987)
- [1011] Small, C.G.: A survey of multidimensional medians. International Statistical Review 58(3), 263–277 (1990)
- [1012] Small, H.: Citations and consilience in science. Scientometrics 43(1), 143–148 (1998)
- [1013] Small, H.: Paradigms, citations, and maps of science: A personal history. Journal of the American Society for Information Science and Technology 54(5), 394–399 (2003)
- [1014] Smith, B., Wilson, J.: A consumer's guide to evenness indices. Oikos 76, 70–82 (1996)

- [1015] Sneath, P.H.A.: The application of computers to taxonomy. Journal of General Microbiology 17(1), 201–226 (1957)
- [1016] Soetaert, K., Petzoldt, T., Setzer, R.: Solving differential equations in R. The R Journal 2(2), 5–15 (2010)
- [1017] Sokal, R., Michener, C.: A statistical method for evaluating systematic relationships. University of Kansas Science Bulletin 38, 1409–1438 (1958)
- [1018] Soler, J.M.: A rational indicator of scientific creativity. Journal of Informetrics 1(2), 123–130 (2007)
- [1019] Somervuo, P.J.: Online algorithm for the self-organizing map of symbol strings. Neural Networks 17, 1231–1239 (2004)
- [1020] Spector, P.: Data Manipulation with R. Springer-Verlag (2008)
- [1021] Springer, M.D.: The Algebra of Random Variables. John Wiley & Sons, New York (1979)
- [1022] Stefanini, L., Sorini, L.: Fuzzy arithmetic with parametric LR fuzzy numbers. In: Proc. IFSA/EUSFLAT 2009. pp. 600–605 (2009)
- [1023] Stefanini, L., Sorini, L.: Approximation of fuzzy numbers by F-transform. In: Greco, S., et al. (eds.) Advances in Computational Intelligence, Part III, Communications in Computer and Information Science, vol. 299, pp. 69–78. Springer (2012)
- [1024] Stephens, M.: EDF statistics for goodness of fit and some comparisons. Journal of the American Statistical Association 69, 730–737 (1974)
- [1025] Stevens, S.S.: On the theory of scales of measurement. Science 103(2684), 677–680 (1946)
- [1026] Stewart, T.A.: Intellectual capital The new wealth of organizations. Nicholas Brealey Publishing (1997)
- [1027] Stigler, S.M.: Linear functions of order statistics. The Annals of Mathematical Statistics 40(3), 770–788 (1969)
- [1028] Stoer, J., Bulirsch, R.: Wstęp do analizy numerycznej. PWN, Warszawa (1987)
- [1029] Storcheus, D., Rostamizadeh, A., Kumar, S.: A survey of modern questions and challenges in feature extraction. Journal of Machine Learning Research 44, 1–18 (2015)
- [1030] Strotmann, A., Zhao, D.: Author name disambiguation: What difference does it make in author-based citation analysis? Journal of the American Society for Information Science and Technology 63, 1820–1933 (2012)
- [1031] Struyf, A., Rousseuw, P.J.: High-dimensional computation of the deepest location. Computational Statistics & Data Analysis 34, 415–426 (2000)
- [1032] Stubblebine, T.: Wyrażenia regularne. Leksykon kieszonkowy. Helion, Gliwice (2001)
- [1033] Sugeno, M.: Theory of fuzzy integrals and its applications. Ph.D. thesis, Tokyo Institute of Technology (1974)
- [1034] Sun, H., Wei, Y.: A note on the PageRank algorithm. Applied Mathematics and Computation 179, 799–806 (2006)
- [1035] Sylvester, J.J.: A question in the geometry of situation. Quarterly Journal of Pure and Applied Mathematics 1, 79 (1857)
- [1036] Szmidt, E., Kacprzyk, J.: Distances between intuitionistic fuzzy sets. Fuzzy Sets and Systems 114(3), 505–518 (2000)
- [1037] Szmidt, E., Kacprzyk, J.: Analysis of consensus under intuitionistic fuzzy preferences. In: Proc. Intl. Conf. Fuzzy Logic and Technology, pp. 79–82. De Montfort University, Leicester, UK (2001)
- [1038] Szydłowski, M., Krawiec, A.: Scientific cycle model with delay. Scientometrics 52(1), 83–95 (2001)
- [1039] Szydłowski, M., Krawiec, A.: Growth cycles of knowledge. Scientometrics 78(1), 99–111 (2009)
- [1040] Szymanski, B.K., de la Rosa, J.L., Krishnamoorthy, M.: An internet measure of the value of citations. Information Sciences 185, 18–31 (2012)

- [1041] Tai, K.C.: Tree-to-tree correction problem. Journal of the ACM 26(3), 422–433 (1979)
- [1042] Taillie, C.: Species equitibility: A comparative approach. In: Ecological Diversity in Theory and Practice, pp. 51–62. Int. Coop. Publ. House, Fairland, Maryland (1979)
- [1043] Tanenbaum, A.: Systemy operacyjne. Helion, Gliwice (2010)
- [1044] Tastle, J., Tastle, W.: Extending the consensus measure: analyzing ordinal data with respect to extrema. In: Proc. ISECON 2005, vol. 22, pp. 1–5. Columbus OH, USA (2005)
- [1045] Taylor, B.J. (ed.): Methods and Procedures for the Verification and Validation of Artificial Neural Networks. Springer (2006)
- [1046] Tellier, L.N.: The Weber problem: Solution and interpretation. Geographical Analysis 4(3), 215–233 (1972)
- [1047] The CGAL Project: CGAL User and Reference Manual. CGAL Editorial Board, 4.6 edn. (2015), http://doc.cgal.org/4.6/Manual/packages.html
- [1048] Tibshirani, R., Hastie, T., Narasimhan, B., Chu, G.: Diagnosis of multiple cancer types by shrunken centroids of gene expression. Proceedings of the National Academy of Sciences 99(10), 6567–6572 (2002)
- [1049] Tikhonov, A., Arsenin, V.: Solution of ill-posed problems. Winston & Sons, Washington (1977)
- [1050] Torra, V.: The weighted OWA operator. International Journal of Intelligent Systems 12, 153–166 (1997)
- [1051] Torra, V.: On some relationships between hierarchies of quasi-arithmetic means and neural networks. International Journal of Intelligent Systems 14, 1089–1098 (1999)
- [1052] Torra, V.: On the learning of weights in some aggregation operators: The weighted mean and OWA operators. Mathware and Soft Computing 6, 249–265 (1999)
- [1053] Torra, V.: Learning weights for Weighted OWA operators. In: Proc. IEEE Intl. Conf. Industrial Electr. Control and Instrumentation, pp. 2530–2535 (2000)
- [1054] Torra, V.: Learning weights for the quasi-weighted means. IEEE Transactions on Fuzzy Systems 10(5), 653–666 (2002)
- [1055] Torra, V. (ed.): Information Fusion in Data Mining, Studies in Fuzziness and Soft Computing, vol. 123. Springer-Verlag (2003)
- [1056] Torra, V.: OWA operators in data modeling and reidentification. IEEE Transactions on Fuzzy Systems 12(5), 652–660 (2004)
- [1057] Torra, V.: Aggregation operators and models. Fuzzy Sets and Systems 156, 407–410 (2005)
- [1058] Torra, V.: Information fusion. Methods and aggregation operators. In: Maimon, O., Rokach, L. (eds.) The Data Mining and Knowledge Discovery Handbook, pp. 999–1008. Springer (2010)
- [1059] Torra, V.: The WOWA operator: A review. In: Yager, R.R., Kacprzyk, J., Beliakov, G. (eds.) Recent Developments in the Ordered Weighted Averaging Operators, pp. 17–28. Springer (2011)
- [1060] Torra, V., Lv, Z.: On the WOWA operator and its interpolation function. International Journal of Intelligent Systems 24, 1039–1056 (2009)
- [1061] Torra, V., Narukawa, Y.: The interpretation of fuzzy integrals and their application to fuzzy systems. International Journal of Approximate Reasoning 41, 43–58 (2006)
- [1062] Torra, V., Narukawa, Y.: Modeling Decisions: Information Fusion and Aggregation Operators. Springer-Verlag (2007)
- [1063] Torra, V., Narukawa, Y.: A view of averaging aggregation operators. IEEE Transactions on Fuzzy Systems 15(6), 1063–1067 (2007)
- [1064] Torra, V., Narukawa, Y.: The h-index and the number of citations: Two fuzzy integrals. IEEE Transactions on Fuzzy Systems 16(3), 795–797 (2008)
- [1065] Trutschnig, W., González-Rodríguez, G., Colubi, A., Ángeles Gil, M.: A new family of metrics for compact, convex (fuzzy) sets based on a generalized concept of mid and spread. Information Sciences 179(23), 3964–3972 (2009)

- [1066] Tukey, J.W.: Mathematics and the picturing of data. Proc. Intl. Congress of Mathematicians pp. 523–531 (1974)
- [1067] Tukey, J.: Some graphic and semigraphic displays. In: Bancroft, T. (ed.) Statistical Papers in Honor of George W. Snedecor, pp. 293–316. Ames (1972)
- [1068] Tuomisto, H.: An updated consumer's guide to evenness and related indices. Oikos 121, 1203–1218 (2012)
- [1069] Ukkonen, E.: On approximate string matching. Lecture Notes in Computer Science 158, 487–495 (1983)
- [1070] Ukkonen, E.: Approximate string-matching with q-grams and maximal matches. Theoretical Computer Science 92, 191–211 (1992)
- [1071] Ultsch, A.: Clustering with SOM: U\*C. In: Workshop on Self-Organizing Maps, pp. 75–82 (2005)
- [1072] van der Loo, M.: The stringdist package for approximate string matching. The R Journal 6(1), 111-122 (2014)
- [1073] van Eck, N.J., Waltman, L.: Generalizing the h- and g-indices. Journal of Informetrics 2(4), 263–271 (2008)
- [1074] van Kreveld, M., Mitchell, J.S., Rousseeuw, P., Sharir, M., Snoeyink, J., Speckmann, B.: Efficient algorithms for maximum regression depth. Discrete and Computational Geometry 39(4), 656–677 (2008)
- [1075] van Raan, A.: Sleeping beauties in science. Scientometrics 59(3), 467–472 (2004)
- [1076] van Raan, A.F.J.: In matters of quantitative studies of science. The fault of theorists is offering too little and asking too much. Scientometrics 43(1), 129–139 (1998)
- [1077] van Raan, A.F.J.: Comparison of the Hirsch-index with standard bibliometric indicators and with peer judgment for 147 chemistry research groups. Scientometrics 67(3), 491–502 (2006)
- [1078] Vanclay, J.K.: On the robustness of the h-index. Journal of the American Society for Information Science and Technology 58(10), 1547–1550 (2007)
- [1079] Vannucci, S.: Dominance dimension: A common parametric formulation for integer-valued scientific impact indices. Scientometrics 84, 43–48 (2010)
- [1080] Vardi, Y., Zhang, C.H.: The multivariate  $l_1$ -median and associated data depth. Proceedings of the National Academy of Sciences 97(4), 1423–1426 (2000)
- [1081] Vazquez, A.: Statistics of citation networks (2001), arXiv:cond-mat/0105031v1
- [1082] Veenman, C., Reinders, M., Backer, E.: A maximum variance cluster algorithm. IEEE Transactions on Pattern Analysis and Machine Intelligence 24(9), 1273–1280 (2002)
- [1083] Vellido, A., Martin-Guerrero, J.D., Lisboa, P.J.: Making machine learning models interpretable. In: Proc. European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning ESANN'12, pp. 163–172 (2012)
- [1084] Venables, W., Ripley, B.: S Programming. Springer-Verlag (2000)
- [1085] Venables, W., Ripley, B.: Modern Applied Statistics with S. Springer-Verlag (2002)
- [1086] Vieira, E.S., Gomes, J.A.: Citations to scientific articles: Its distribution and dependencies on the article features. Journal of Informetrics 4, 1–13 (2010)
- [1087] Vieira, E.S., Gomes, J.A.: A comparison of *Scopus* and *Web of Science* for a typical university. Scientometrics 81(2), 587–600 (2009)
- [1088] Villasenor-Alva, J., Gonzalez-Estrada, E.: A bootstrap goodness of fit test for the Generalized Pareto Distribution. Computational Statistics and Data Analysis 53(11), 3835–3841 (2009)
- [1089] Vinkler, P.: Comparative investigation of frequency and strength of motives toward referencing. The reference threshold model. Scientometrics 43(1), 107–127 (1998)
- [1090] Vinogradov, A.E.: Secular trend of academician aging. Scientometrics 43(1), 149–160 (1998)
- [1091] Vintsyuk, T.: Speech discrimination by dynamic programming. Cybernetics 4(1), 52–57 (1968)

- [1092] von Neumann, J., Morgenstern, O.: Theory of games and economic behavior. Princeton University Press, Princeton (1947)
- [1093] Wachenfeld, W., Winner, H.: Do autonomous vehicles learn? In: Maurer, M., Gerdes, J.C., Lenz, B., Winner, H. (eds.) Autonomous Driving: Technical, Legal and Social Aspects, pp. 451–471. Springer, Berlin, Heidelberg (2016)
- [1094] Wagner, R.A., Fischer, M.J.: The string-to-string correction problem. Journal of the ACM 21(1), 168–173 (1974)
- [1095] Wagner-Döbler, R.: Where has the cumulative advantage gone? some observations about the frequency distribution of scientific productivity, of duration of scientific participation, and of speed of publication. Scientometrics 32(2), 123–132 (1995)
- [1096] Wallis, W., Shoubridge, P., Kraetz, M., Ray, D.: Graph distances using graph union. Pattern Recognition Letters 22(6–7), 701–704 (2001)
- [1097] Waltman, L., van Eck, N.J.: The inconsistency of the h-index. Journal of the American Society for Information Science and Technology 63(2), 406–415 (2012)
- [1098] Waltman, L., van Eck, N.J., Wouters, P.: Counting publications and citations: Is more always better? Journal of Informetrics 7, 635–641 (2013)
- [1099] Wandelt, S., et al.: State-of-the-art in string similarity search and join. SIGMOD Record 43(1), 64–76 (2014)
- [1100] Wang, X., Kerre, E.E.: Reasonable properties for the ordering of fuzzy quantities (I). Fuzzy Sets and Systems 118(3), 375–385 (2001)
- [1101] Wang, X., Kerre, E.E.: Reasonable properties for the ordering of fuzzy quantities (II). Fuzzy Sets and Systems 118(3), 387–405 (2001)
- [1102] Warshall, S.: A theorem on Boolean matrices. Journal of the ACM 9(1), 11–12 (1962)
- [1103] Weber, S.: Measures of fuzzy sets and measures of fuzziness. Fuzzy Sets and Systems 13, 247–271 (1984)
- [1104] Weiss, S.M., Indurkhya, N.: Rule-based machine learning methods for functional prediction. Journal of Artificial Intelligence Research 3, 383–403 (1995)
- [1105] Weiszfeld, E.: Sur le point par lequel la somme des distances de n points donnés est minimum. Tohoku Mathematics Journal 43, 355–386 (1937)
- [1106] Welzl, E.: Smallest enclosing disks (balls and ellipsoids). Lecture Notes in Computer Science 555, 359–370 (1991)
- [1107] Wickham, H.: ggplot2: Elegant Graphics for Data Analysis. Springer-Verlag (2009)
- [1108] Wickham, H.: stringr: modern, consistent string processing. The R Journal 2(2), 38–40 (2010)
- [1109] Wickham, H.: testthat: Get started with testing. The R Journal 3(1), 5–10 (2011)
- [1110] Widrow, B., Winter, R.: Neural nets for adaptive filtering and adaptive pattern recognition. Computer 21, 25–39 (1998)
- [1111] Wieczorkowski, R., Zieliński, R.: Komputerowe generatory liczb losowych. WNT, Warszawa (1997)
- [1112] Wilkin, T., Beliakov, G.: Weakly monotonic averaging functions. International Journal of Intelligent Systems 30(2), 144–169 (2015)
- [1113] Wilkin, T., Beliakov, G., Calvo, T.: Weakly monotone averaging functions. Communications in Computer and Information Science 444, 364–373 (2014)
- [1114] Wilkin, T.A.: Weakly monotonic averaging with application to image processing. Ph.D. thesis, Deakin University (2014)
- [1115] Wilkinson, L.: The Grammar of Graphics. Springer-Verlag (2005)
- [1116] Williams, C.: Patterns in the balance of nature. Academic Press, London (1964)

- [1117] Williams, V.V.: Multiplying matrices faster than Coppersmith-Winograd. In: Proc. 44th ACM Symp. Theory of Computing (STOC '12). pp. 887–898 (2012)
- [1118] Wilsey, B., Potvin, C.: Biodiversity and ecosystem functioning: Importance of species evenness in an old field. Ecology 81(4), 887–892 (2000)
- [1119] Winkler, W.: String comparator metrics and enhanced decision rules in the Fellegi-Sunter model of record linkage. In: Proc. Section on Survey Research Methods, American Statistical Association, pp. 354–359 (1990)
- [1120] Winkler, W.E.: Overview of record linkage and current research directions. Tech. Rep. 2006-2, U.S. Census Bureau, Washington, DC (2006)
- [1121] Witzgall, C.: On convex metrics. Journal of Research of the National Bureau of Standards B. Mathematics and Mathematical Physics 69B(3), 175–177 (1965)
- [1122] Woeginger, G.J.: An axiomatic analysis of Egghe's g-index. Journal of Informetrics 2(4), 364–368 (2008)
- [1123] Woeginger, G.J.: An axiomatic characterization of the Hirsch-index. Mathematical Social Sciences 56(2), 224–232 (2008)
- [1124] Woeginger, G.J.: A symmetry axiom for scientific impact indices. Journal of Informetrics 2, 298–303 (2008)
- [1125] Woeginger, G.J.: Generalizations of Egghe's g-index. Journal of the American Society for Information Science and Technology 60(6), 1267-1273 (2009)
- [1126] Woeginger, G.J.: An algorithmic comparison of three scientific impact indices. Acta Cybernetica 19, 661–672 (2010)
- [1127] Wolsey, L.: Integer Programming. John Wiley & Sons, New York (1998)
- [1128] Wood, S.: Generalized additive models: An introduction with R. CRC Press (2006)
- [1129] Wooley, J.C.: Trends in computational biology: A summary based on a RECOMB plenary lecture. Journal of Computational Biology 6, 459–474 (1999)
- [1130] Wróblewski, A.K.: Bibliometryczne nieporozumienia. Forum Akademickie 9 (2001)
- [1131] Wu, Q.: The w-index: A measure to assess scientific impact by focusing on widely cited papers. Journal of the American Society for Information Science and Technology 61(3), 609–614 (2010)
- [1132] Xie, Y.: Dynamic Documents with R and knitr. Chapman & Hall/CRC (2013)
- [1133] Xu, R., Wunsch II, D.C.: Clustering. Wiley-IEEE Press (2009)
- [1134] Xu, Z.: An overview of methods for determining OWA weights. International Journal of Intelligent Systems 20, 843–865 (2005)
- [1135] Yager, R.R.: Quasi-associative operations in the combination of evidence. Kybernetes 16(1), 37–41 (1987)
- [1136] Yager, R.R.: On ordered weighted averaging aggregation operators in multicriteria decision making. IEEE Transactions on Systems, Man, and Cybernetics 18(1), 183–190 (1988)
- [1137] Yager, R.R.: Connectives and quantifiers in fuzzy sets. Fuzzy Sets and Systems 40, 39–75 (1991)
- [1138] Yager, R.R.: On the specificity of a possibility distribution. Fuzzy Sets and Systems 50, 279–292 (1992)
- [1139] Yager, R.R.: Toward a general theory of information aggregation. Information Sciences 68(3), 191–206 (1993)
- [1140] Yager, R.R.: Fusion of ordinal information using weighted median aggregation. International Journal of Approximate Reasoning 18, 35–52 (1998)
- [1141] Yager, R.R.: Prioritized aggregation operators. International Journal of Approximate Reasoning 48(1), 263-274 (2008)
- [1142] Yager, R.R.: On generalized Bonferroni mean operators for multi-criteria aggregation. International Journal of Approximate Reasoning 50, 1279–1286 (2009)

- [1143] Yager, R.R.: Lexicographic ordinal OWA aggregation of multiple criteria. Information Fusion 11, 374–380 (2010)
- [1144] Yager, R.R., Beliakov, G.: OWA operators in regression problems. IEEE Transactions on Fuzzy Systems 18(1), 106–113 (2010)
- [1145] Yager, R.R., Filev, D.P.: Essentials of fuzzy modeling and control. Wiley (1994)
- [1146] Yager, R.R., Kacprzyk, J. (eds.): The ordered weighted averaging operators. Theory and applications. Kluwer Academic Publishers, Norwell (1997)
- [1147] Yager, R.R., Kacprzyk, J., Beliakov, G. (eds.): Recent Developments in the Ordered Weighted Averaging Operators. Springer (2011)
- [1148] Yager, R.R., Rybalov, A.: Uninorm aggregation operators. Fuzzy Sets and Systems 80, 111–120 (1996)
- [1149] Yager, R.R., Rybalov, A.: Understanding the median as a fusion operator. International Journal of General Systems 26(3), 239–263 (1997)
- [1150] Yan, J.: Enjoy the joy of copulas: With a package copula. Journal of Statistical Software 21(4), 1–21 (2007)
- [1151] Yang, F., Sun, T., Zhang, C.: An efficient hybrid data clustering method based on K-harmonic means and particle swarm optimization. Expert Systems with Applications 36, 9847–9852 (2009)
- [1152] Yang, Q.: The PAN-integral on the fuzzy measure space. Fuzzy Mathematics 3, 107–114 (1985)
- [1153] Yeh, C.T.: Trapezoidal and triangular approximations preserving the expected interval. Fuzzy Sets and Systems 159, 1345–1353 (2008)
- [1154] Yeh, C.T.: Weighted trapezoidal and triangular approximations of fuzzy numbers. Fuzzy Sets and Systems 160(21), 3059–3079 (2009)
- [1155] Yeh, C.T.: A note on trapezoidal approximations of fuzzy numbers. Fuzzy Sets and Systems 158(7), 747–754 (2007)
- [1156] Yeh, C.T.: On improving trapezoidal and triangular approximations of fuzzy numbers. International Journal of Approximate Reasoning 48(1), 297–313 (2008)
- [1157] Yeh, C.T.: Approximation by interval, triangular and trapezoidal fuzzy numbers. In: Carvalho, J.P., et al. (eds.) Proc. IFSA/EUSFLAT'09, pp. 143–148. IFSA (2009)
- [1158] Yeh, C.T.: Weighted semi-trapezoidal approximations of fuzzy numbers. Fuzzy Sets and Systems 165(1), 61–80 (2011)
- [1159] Yianilos, P.: Data structures and algorithms for nearest neighbor search in general metric spaces. In: Proc. ACM-SIAM Symp. Discrete Algorithms, pp. 311–321. Society for Industrial and Applied Mathematics, Philadelphia, PA (1993)
- [1160] Yin, M., Hu, Y., Yang, F., Li, X., Gu, W.: A novel hybrid K-harmonic means and gravitational search algorithm approach for clustering. Expert Systems with Applications 38, 9319–9324 (2011)
- [1161] Young, N.S., Ioannidis, J.P.A., Al-Ubaydli, O.: Why current publication practices may distort science. PLoS Medicine 5(10), 1418–1422 (2008)
- [1162] Yu, H., Davis, M., Wilson, C.S., Cole, F.T.H.: Object-oriented data modelling for informetric databases. Journal of Informetrics 2(3), 240–251 (2008)
- [1163] Yu, J., Yang, M.S.: Optimality test for generalized FCM and its application to parameter selection. IEEE Transactions on Fuzzy Systems 13(1), 164–176 (2005)
- [1164] Yuan, B., Klir, G.J.: Constructing fuzzy measures: A new method and its application to cluster analysis. In: Proc. NAFIPS'96, pp. 567–571 (1996)
- [1165] Zadeh, L.: Outline of a new approach to the analysis of complex systems and decision processes. IEEE Transactions on Systems, Man, and Cybernetics 3, 28–44 (1973)
- [1166] Zadeh, L.A.: Fuzzy sets. Information and Control 8, 338–353 (1965)

- [1167] Zadeh, L.A.: Fuzzy logic = computing with words. IEEE Transactions on Fuzzy Systems 4(2), 103–111 (1996)
- [1168] Zadrożny, S., Kacprzyk, J.: Computing with words for text processing: An approach to the text categorization. Information Sciences 176, 415–437 (2006)
- [1169] Zahn, C.: Graph-theoretical methods for detecting and describing gestalt clusters. IEEE Transactions on Computers C-20(1), 68–86 (1971)
- [1170] Zeng, W., Li, H.: Inclusion measures, similarity measures, and the fuzziness of fuzzy sets and their relations. International Journal of Intelligent Systems 21, 639–653 (2006)
- [1171] Zhang, B.: K-harmonic means A data clustering algorithm. Tech. Rep. HPL-1999-124, HP Laboratories, Palo Alto (1999)
- [1172] Zhang, B., Hsu, M., Dayal, U.: K-harmonic means A spatial clustering algorithm with boosting. Lecture Notes in Artificial Intelligence 2007, 31–45 (2001)
- [1173] Zhang, D.: Triangular norms on partially ordered sets. Fuzzy Sets and Systems 153, 195–209 (2005)
- [1174] Zhang, J.: Improving on estimation for the Generalized Pareto Distribution. Technometrics 52(3), 335–339 (2010)
- [1175] Zhang, J., Stephens, M.A.: A new and efficient estimation method for the Generalized Pareto Distribution. Technometrics 51(3), 316–325 (2009)
- [1176] Zhang, K., Shasha, D.: Simple fast algorithms for the editing distance between trees and related problems. SIAM Journal on Computing 18(6), 1245–1262 (1989)
- [1177] Zhang, L., Glänzel, W., Liang, L.: Tracing the role of individual journals in a cross-citation network based on different indicators. Scientometrics 81(3), 821–838 (2009)
- [1178] Zhang, L., Janssens, F., Liang, L., Glänzel, W.: Hybrid clustering analysis for mapping large scientific domains. In: Larsen, B., Leta, J. (eds.) Proc. 12th Intl. Conf. Scientometrics and Informetrics. pp. 178–188 (2009)
- [1179] Zhang, L., Liu, X., Janssens, F., Liang, L., Glänzel, W.: Subject clustering analysis based on isi category classification. Journal of Informetrics 4, 185–193 (2010)
- [1180] Zhang, X., Li, Z., Loy, C.C., Lin, D.: PolyNet: A pursuit of structural diversity in very deep networks (2017), arXiv:1611.05725
- [1181] Zhivotovsky, L.A., Krutowsky, K.V.: Self-citation can inflate h-index. Scientometrics 77(2), 373–375 (2008)
- [1182] Zieliński, R.: Siedem wykładów wprowadzających do statystyki matematycznej. PWN, Warszawa (1990)
- [1183] Zieliński, R.: Przedziały ufności dla frakcji. Matematyka Stosowana 10, 51–68 (2009)
- [1184] Zuo, Y.: Projection-based depth functions and associated medians. The Annals of Statistics 31(5), 1460–1490 (2003)
- [1185] Zuo, Y., Serfling, R.: General notions of statistical depth function. The Annals of Statistics 28(2), 461–482 (2000)
- [1186] Życzkowski, K.: Indeksy cytowań i wiosła. Forum Akademickie 9, 22–25 (2008)
- [1187] 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)