Last update: January 18, 2015

References

[1] Abelson, H., Sussman, G., Sussman, J.: Struktura i interpretacja programów komputerowych. WNT, Warszawa (2002)

[2] Abramovitz, M., Stegun, I.A.: Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables. National Bureau of Standards Applied Mathematics Series (1972)

[3] Abramowitz, M., Stegun, I.A.: Handbook of mathematical functions. Dover, New York (1972), `http://www.iopb.res.in/~somen/abramowitz_and_stegun/`

[4] Achiezer, N.: Teoria aproksymacji. PWN, Warszawa (1957)

[5] Aczel, A.: Complete Business Statistics. Irvin (1996)

[6] Ahn, B.S.: Preference relation approach for obtaining OWA operators weights. International Journal of Approximate Reasoning 47(2), 166–178 (2008)

[7] Ahn, B.S.: Parameterized OWA operator weights: An extreme point approach. International Journal of Approximate Reasoning 51(7), 820–831 (2010)

[8] Aho, A., Garey, M., Ullman, J.: The transitive reduction of a directed graph. SIAM Journal on Computing 1(2), 131–137 (1972)

[9] Aho, A., Sethi, R., Ullman, J.: Kompilatory. Reguły, metody i narzędzia. WNT, Warszawa (2002)

[10] 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)

[11] 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)

[12] Altman, A.: The axiomatic approach to ranking systems. Ph.D. thesis, Israel Institute of Technology, Haifa, Izrael (2007)

[13] Altman, A., Tennenholtz, M.: Ranking systems: The PageRank axioms. In: Proc. 6th ACM Conf. on Electronic Commerce (2005)

[14] 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)

[15] Angelov, P., Yager, R.: Density-based averaging – A new operator for data fusion. Information Sciences 222, 163–174 (2013)

[16] Arnold, B.C.: Pareto and generalized pareto distributions. In: Economic Studies in Equality, Social Exclusion and Well-Being, pp. 119–145. Springer (2008)

[17] Arrow, K.J.: A difficulty in the concept of social welfare. Journal of Political Economy 58(4), 328–346 (1950)

[18] Arunachalam, S.: Citation analysis: Do we need a thoeory? Scientometrics 43(1), 141–142 (1998)

[19] Atanassov, K.T.: Intuitionistic fuzzy sets. Fuzzy Sets and Systems 20, 87–96 (1986)

[20] Bååth, R.: The state of naming conventions in R. The R Journal 4(2), 74–75 (2012)

[21] Baczyński, M., Jayaram, B.: Fuzzy implications. Springer-Verlag, Berlin (2008)

[22] Ball, P.: Index aims for fair ranking of scientists. Nature 436, 900 (2005)

[23] Ban, A., Coroianu, L., Grzegorzewski, P.: Trapezoidal approximation and aggregation. Fuzzy Sets and Systems 177, 45–59 (2011)

[24] Ban, A., Coroianu, L., Grzegorzewski, P.: A fixed-shape fuzzy median of a fuzzy sample. In: Proc. 8th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-13). pp. 215–222. Atlantis Press (2013)

[25] Ban, A.: Approximation of fuzzy numbers by trapezoidal fuzzy numbers preserving the expected interval. Fuzzy Sets and Systems 159, 1327–1344 (2008)

[26] Ban, A.: On the nearest parametric approximation of a fuzzy number – revisited. Fuzzy Sets and Systems 160, 3027–3047 (2009)

[27] 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)

[28] Banks, M.G.: An extension of the Hirsch index: Indexing scientific topics and compounds. Scientometrics 69(1), 161–168 (2006)

[29] Bar-Ilan, J.: H-index for price medalists revisited. ISSI Newsletter 2(1), 3–5 (2006)

[30] Bar-Ilan, J.: Informetrics at the beginning of the 21st century — A review. Journal of Informetrics 2, 1–52 (2008)

[31] Barabási, A., Newman, M., Watts, D.: The Structure and Dynamics of Networks. Princeton University Press (2006)

[32] Barcza, K., Telcs, A.: Paretian publication patterns imply Paretian Hirsch index. Scientometrics 81(2), 513–519 (2009)

[33] Barnett, G.A., Fink, E.L., Debus, M.B.: Mathematical model of academic citation age. Communication research 4(16), 510–531 (1989)

[34] Barra, J.: Matematyczne podstawy statystyki. PWN, Warszawa (1982)

[35] Bartłomiejczyk, L., Drewniak, J.: A characterization of sets and operations invariant under bijections. Æquationes Mathematicæ 68, 1–9 (2004)

[36] Bartneck, C., Kokkelmans, S.: Detecting h-index manipulation through self-citation analysis. Scientometrics 87, 85–98 (2011)

[37] 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. vol. 444, pp. 21–30. Springer (2014)

[38] Basu, A.: A note on the connection between the Hirsch index and the Random Hierarchical model. ISSI Newsletter 3(2), 24–27 (2007)

[39] 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)

[40] Becker, R., Chambers, J., Wilks, A.: The New S Language. Chapman & Hall (1998), „*The Blue Book*"

[41] Beirlant, J., Glänzel, W., Carbonez, A., Leemans, H.: Scoring research output using statistical quantile plotting. Journal of Informetrics 1, 185–192 (2007)

[42] Beliakov, G.: Fast computation of trimmed means. Journal of Statistical Software 39, Code snippet 2 (2011)

[43] 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)

[44] Beliakov, G., Calvo, T., Wilkin, T.: Three types of monotonicity of averaging functions. Knowledge-Based Systems 72, 114–122 (2014)

[45] Beliakov, G., Calvo, T., Wilkin, T.: On the weak monotonicity of Gini means and other mixture functions. Information Sciences 300, 70–84 (2015)

[46] Beliakov, G., James, S.: Citation-based journal ranks: The use of fuzzy measures. Fuzzy Sets and Systems 167, 101–119 (2011)

[47] Beliakov, G., James, S.: Stability of weighted penalty-based aggregation functions. Fuzzy Sets and Systems 226(1), 1–18 (2013)

[48] Beliakov, G., Pradera, A., Calvo, T.: Aggregation functions: A guide for practitioners. Springer-Verlag (2007)

[49] Beliakov, G., Warren, J.: Appropriate choice of aggregation operators in fuzzy decision support systems. IEEE Transactions on fuzzy systems 9(6), 773–784 (2001)

[50] Beliakov, G., Wilkin, T.: On some properties of weighted averaging with variable weights. Information Sciences 281, 1–7 (2014)

[51] Bellosta, C.J.G.: `ADGofTest`: Anderson-Darling GoF test (2009), `http://CRAN.R-project.org/package=ADGofTest`, R package version 0.1

[52] 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)

[53] 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)

[54] 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)

[55] Bezdek, J.C., Spillman, B., Spillman, R.: Fuzzy relation spaces for group decision theory: An application. Fuzzy Sets and Systems 2, 5–14 (1979)

[56] Bickel, P., Doksum, K.: Mathematical Statistics: Basic Ideas and Selected Topics. Holden-Day (1977)

[57] Biecek, P.: Przewodnik po pakiecie R. GiS, Wrocław (2011)

[58] Biecek, P.: Analiza danych z programem R. Modele liniowe z efektami stałymi, losowymi i mieszanymi. PWN, Warszawa (2012)

[59] Billingsley, P.: Prawdopodobieństwo i miara. PWN, Warszawa (2009)

[60] Blizard, W.D.: Multiset theory. Notre Dame Journal of Formal Logic 30(1), 36–66 (1989)

[61] 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)

[62] Bodenhofer, U., de Baets, B., Fodor, J.: A compendium of fuzzy weak orders: Representations and constructions. Fuzzy Sets and Systems 158, 811–829 (2007)

[63] Bodenhofer, U.: A similarity-based generalization of fuzzy orderings. Ph.D. thesis, Jonannes Kepler University, Linz, Austria (1999)

[64] Bodjanova, S.: Median value and median interval of a fuzzy number. Information Sciences 172, 73–89 (2005)

[65] Boell, S.K., Wilson, C.S.: Journal Impact Factors for evaluation scientific performance: Use of h-like indicators. Scientometrics 82, 613–626 (2010)

[66] Bollen, J., Rodriguez, M.A., van de Sompel, H.: Journal status. Scientometrics 69(3), 669–687 (2006)

[67] Bonitz, M.: Ten years of Matthew effect for countries. Scientometrics 64(3), 375–379 (2005)

[68] Bonnett, X., Shine, R., Lourdais, O.: Taxonomic chauvinism. TRENDS in Ecology and Evolution 21(4), 1–3 (2002)

[69] Bookstein, A.: Implications of ambiguity for scientometric measurement. Journal of the American Society for Information Science and Technology 52(1), 74–79 (2001)

[70] 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)

[71] 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)

[72] 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)

[73] Bornmann, L., Daniel, H.D.: The state of h index research. EMBO Reports 10(1), 2–5 (2009)

[74] 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)

[75] Bornmann, L., Mutz, R., Daniel, H.D.: Latent Markov modeling applied to grant peer review. Journal of Informetrics 2(3), 217–228 (2008)

[76] Borovskikh, Y.V.: Nonuniform estimation of rate of convergence for L-statistics. Ukrainian Mathematical Journal 33(2), 127–132 (1981)

[77] Borovskikh, Y.V., Weber, N.C.: Asymptotic distributions for a class of generalized L-statistics. Bernoulli 16(4), 1177–1190 (2010)

[78] Bottema, O.: Het begrip "merkwaardig" met betrekking tot punten in de driehoeksmeetkunde. Nieuw Tijdschr. Wisk. 69, 2–7 (1981)

[79] Bouyssou, D., Marchant, T.: Consistent bibliometric rankings of authors and of journals. Journal of Informetrics 4, 365–378 (2010)

[80] Bouyssou, D., Marchant, T.: Bibliometric rankings of journals based on Impact Factors: An axiomatic approach. Journal of Informetrics 5, 75–86 (2011)

[81] 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)

[82] Boyack, K.W., Klavans, R., Börner, K.: Mapping the backbone of science. Scientometrics 64(3), 351–374 (2005)

[83] Boytsov, L.: Indexing methods for approximate dictionary searching: comparative analyses. ACM Journal of Experimental Algorithmics 16, 1–86 (2011)

[84] 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)

[85] Braun, T., Glänzel, W., Schubert, A.: A Hirsch-type index for journals. Scientometrics 69(1), 169–173 (2006)

[86] Bravington, M.: Debugging without (too many) tears. R News 3(3), 29–32 (2003)

[87] Brent, R.: Algorithms for minimization without derivatives. Prentice-Hall (1973)

[88] Brimberg, J.: The Fermat-Weber location problem revisited. Mathematical Programming 71, 71–76 (1995)

[89] Broadus, R.N.: Early approaches to bibliometrics. Journal of the American Society for Information Science 38(2), 127–129 (1987)

[90] Brönnimann, H., Melquiond, G., Pionc, S.: The design of the Boost interval arithmetic library. Theoretical Computer Science 351(1), 111–118 (2006)

[91] Brumback, R.A.: Impact Factor Wars: Episode V — The Empire strikes back. Journal of Child Neurology 24(3), 260–262 (2009)

[92] Brunelli, M., Mezei, J.: How different are ranking methods for fuzzy numbers? a numerical study. International Journal of Approximate Reasoning 54, 627–639 (2013)

[93] Buchholz, K.: Criteria for the analysis of scientific quality. Scientometrics 32(2), 195–218 (1995)

[94] Bullen, P.: Handbook of means and their inequalities. Springer Science+Business Media, Dordrecht (2003)

[95] Burrell, Q.L.: A simple linear model for linked informetric processes. Information Processing & Management 28(5), 637–645 (1992)

[96] Burrell, Q.L.: The Kolmogorov-Smirnov test and rank-frequancy distributions. Journal of the American Society for Information Science 45(1), 59 (1994)

[97] Burrell, Q.L.: Stochastic modelling of the first-citation distribution. Scientometrics 52(1), 3–12 (2001)

[98] Burrell, Q.L.: Predicting future citation behavior. Journal of the American Society for Information Science and Technology 54(5), 372–378 (2003)

[99] Burrell, Q.L.: Are "sleeping beauties" to be expected? Scientometrics 65(3), 381–389 (2005)

[100] Burrell, Q.L.: The use of Lotka functions and systematic sampling. Scientometrics 67(2), 323–325 (2006)

[101] Burrell, Q.L.: Hirsch index of Hirsch rate? Some thoughts arising from Liang's data. Scientometrics 73(1), 19–28 (2007)

[102] Burrell, Q.L.: Hirsch's h-index: A stochastic model. Journal of Informetrics 1, 16–25 (2007)

[103] 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)

[104] Burrell, Q.L.: Extending Lotkaian informetrics. Information Processing & Management 44, 1794–1807 (2008)

[105] 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)

[106] 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)

[107] Burrell, Q.L.: On Hirsch's h, Egghe's g and Kosmulski's $h(2)$. Scientometrics 79(1), 323–325 (2009)

[108] 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)

[109] Bustince, H., Fernandez, J., Kolesárová, A., Mesiar, R.: Fusion functions and directional monotonicity. Communications in Computer and Information Science 444, 262–268 (2014)

[110] 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 2011. pp. 79–85 (2011)

[111] 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)

[112] 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)

[113] Calvo, T., Beliakov, G.: Aggregation functions based on penalties. Fuzzy Sets and Systems 161, 1420–1436 (2010)

[114] Calvo, T., Kolesarova, A., Komornikova, M., Mesiar, R.: Aggregation operators: Properties, classes and construction methods. In: Calvo et al. [116], pp. 3–104

[115] Calvo, T., Mayor, G.: Remarks on two types of extended aggregation functions. Tatra Mountains Mathematical Publications 16, 235–253 (1999)

[116] 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)

[117] 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 Knowledge-based Systems 8(4), 417–451 (2000)

[118] Calvo, T., Mesiar, R., Yager, R.R.: Quantitative weights and aggregation. IEEE Transactions on Fuzzy Systems 12(1), 62–69 (2004)

[119] 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 (1997)

[120] 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, vol. 228, pp. 93–103. Springer (2013)

[121] 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, vol. 228, pp. 105–115. Springer (2013)

[122] 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 (2014), in press, doi:10.1016/j.fss.2014.04.001

[123] Cena, A., Gagolewski, M., Mesiar, R.: Problems and challenges of information resources producers' clustering (2014), submitted paper

[124] Chambers, J.: Programming with Data. Springer-Verlag (1998), „*The Green Book*"

[125] Chambers, J.: Software for Data Analysis. Programming with R. Springer-Verlag (2008)

[126] Chambers, J., Hastie, T.: Statistical Models in S. Chapman & Hall (1992), „*The White Book*"

[127] Chan, T.M.: Optimal output-sensitive convex hull algorithms in two and three dimensions. Discrete and Computational Geometry 16, 361–368 (1996)

[128] Chan, T.M.: An optimal randomized algorithm for maximum Tukey depth. In: Proc. 15th ACM-SIAM Symp. Discrete Algorithms (SODA). pp. 430–436 (2004)

[129] Chanas, S.: On the interval approximation of a fuzzy number. Fuzzy Sets and Systems 122, 353–356 (2001)

[130] Chazelle, B.: An optimal convex hull algorithm in any fixed dimension. Discrete and Computational Geometry 10(1), 377–409 (1993)

[131] 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)

[132] Chen, Y.L., Cheng, L.C.: Mining maximum consensus sequences from group ranking data. European Journal of Operational Research 198, 241–251 (2009)

[133] Cheney, E.: Introduction to Approximation Theory. McGraw-Hill (1966)

[134] Choquet, G.: Theory of capacities. Annales de l'institut Fourier 5, 131–295 (1954)

[135] Choulakian, V., Stephens, M.A.: Goodness-of-fit tests for the Generalized Pareto Distribution. Technometrics 43(4), 478–484 (2001)

[136] Chwałkowski, R.: Typografia typowej książki. Helion, Gliwice (2001)

[137] Clopper, C., Pearson, E.: The use of confidence or fiducial limits illustrated in the case of the binomial. Biometrika 26, 404–413 (1934)

[138] Conway, J.H., Sloane, N.J.A.: Sphere Packings, Lattices and Groups. Springer-Verlag, New York (1998)

[139] Coroianu, L., Gagolewski, M., Grzegorzewski, P.: Nearest piecewise linear approximation of fuzzy numbers. Fuzzy Sets and Systems 233, 26–51 (2013)

[140] Coroianu, L., Gagolewski, M., Grzegorzewski, P.: Piecewise linear approximation of fuzzy numbers – a discussion on algorithms, arithmetic operations and stability of fuzzy number characteristics (2014), submitted paper

[141] 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. vol. 443, pp. 244–254. Springer (2014)

[142] 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)

[143] Costas, R., Bordons, M.: Is g-index better than h-index? An exploratory study at the individual level. Scientometrics 77(2), 267–288 (2008)

[144] Craig, A.T., Hogg, R.V.: Intorudtion to Mathematical Statistics. Macmillan Publishing Co., Inc., New York (1978)

[145] Cramér, H.: Mathematical methods of statistics. Princeton University Press, Princeton (1946)

[146] Crawley, M.: Statistics: An Introduction Using R. John Wiley & Sons (2005)

[147] Crawley, M.: The R Book. John Wiley & Sons (2007)

[148] Cronin, B.: Metatheorizing citation. Scientometrics 43(1), 45–55 (1998)

[149] Ćwik, J., Mielniczuk, J.: Statystyczne systemy uczące się. Ćwiczenia w oparciu o pakiet R. OW Politechniki Warszawskiej, Warszawa (2009)

[150] Dalgaard, P.: Introductory Statistics with R. Springer-Verlag (2008)

[151] Damerau, F.J.: A technique for computer detection and correction of spelling errors. Communications of the ACM 7(3), 171–176 (1964)

[152] 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)

[153] Dantzig, G.: Linear Programming and Extensions. Princeton University Press, Princeton (1963)

[154] DasGupta, A.: Asymptotic theory of statistics and probability. Springer-Verlag, New York (2008)

[155] Dasgupta, M., Deb, R.: Transitivity and fuzzy preferences. Social Choice and Welfare 13, 305–318 (1996)

[156] David, H.A., Nagaraja, H.N.: Order statistics. Wiley (2003)

[157] Davis, P.M.: Reward or persuasion? The battle to define the meaning of a citation. Learned Publishing 21, 5–11 (2009)

[158] de Finetti, B.: Sul significato soggettivo della probabilitá. Fundamenta Mathematicæ 17, 298–329 (1931)

[159] Deineko, V.G., Woeginger, G.J.: A new family of scientific impact measures: The generalized Kosmulski-indices. Scientometrics 80(3), 819–826 (2009)

[160] del Castillo, J., Daoudi, J.: Estimation of the Generalized Pareto Distribution. Statistics and Probability Letters 79, 684–688 (2009)

[161] Delgado, M., Vila, M., Voxman, W.: On a canonical representation of a fuzzy number. Fuzzy Sets and Systems 93, 125–135 (1998)

[162] Demirci, M.: Aggregation operators on partially ordered sets and their categorical foundations. Kybernetika 42, 261–277 (2006)

[163] Destercke, S., Dubois, D., Chojnacki, E.: Unifying practical uncertainty representations. I: Generalized p-boxes. International Journal of Approximate Reasoning 49(3), 649–664 (2008)

[164] Destercke, S., Dubois, D., Chojnacki, E.: Unifying practical uncertainty representations. II: Clouds. International Journal of Approximate Reasoning 49(3), 664–677 (2008)

[165] Desu, M.M., Rodine, R.H.: Estimation of the population median. Skandinavisk Aktuarietidskrift 28, 67–70 (1969)

[166] R Development Core Team: R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria (2015), http://www.R-project.org

[167] Diaconis, P., Shahshahani, M.: The subgroup algorithm for generating uniform random variables. Probability In Engineering And Information Sciences 1, 15–32 (1987)

[168] Diamond, P., Kloeden, P.: Metric spaces of fuzzy sets. Theory and applications. World Scientific, Singapore (1994)

[169] 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)

[170] Dubois, D., Prade, H.: Operations on fuzzy numbers. Int. J. Syst. Sci. 9, 613–626 (1978)

[171] Dubois, D., Prade, H.: Fuzzy numbers: An overview. In: In: Analysis of Fuzzy Information. Mathematical Logic, vol. I, pp. 3–39. CRC Press (1987)

[172] Dubois, D., Prade, H.: The mean value of a fuzzy number. Fuzzy Sets and Systems 24, 279–300 (1987)

[173] Dubois, D., Prade, H.: Semantics of quotient operators in fuzzy relational databases. Fuzzy Sets and Systems 78(1), 89–93 (1996)

[174] Dubois, D., Prade, H.: Possibility theory, probability theory and multiple-valued logics: A clarification. Annals of Mathematics and Artificial Intelligence 32, 35–66 (2001)

[175] 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)

[176] Dubois, D., Prade, H., Smets, P.: A definition of subjective possibility. International Journal of Approximate Reasoning 48(2), 352–364 (2008)

[177] Dubois, D., Prade, H., Testemale, C.: Weighted fuzzy pattern matching. Fuzzy Sets and Systems 28, 313–331 (1988)

[178] Durante, F., Mesiar, R., Papini, P.L., Sempi, C.: 2-increasing binary aggregation operators. Information Sciences 177, 111–129 (2007)

[179] 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)

[180] Eaton, M.L.: Multivariate Statistics. Wiley, New York (1983)

[181] Eddelbuettel, D.: Seamless R and C++ Integration with Rcpp. Springer, New York (2013)

[182] Eddelbuettel, D., François, R.: Rcpp: Seamless R and C++ integration. Journal of Statistical Software 40(8), 1–18 (2011)

[183] Edelsbrunner, H.: Algorithms in Combinatorial Geometry. Springer-Verlag, Heidelberg (1987)

[184] 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)

[185] Egghe, L.: Mathematical theories of citation. Scientometrics 43(1), 57–62 (1998)

[186] 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)

[187] Egghe, L.: An improvement of the h-index: the g-index. ISSI Newsletter 2(1), 8–9 (2006)

[188] Egghe, L.: Theory and practise of the g-index. Scientometrics 69(1), 131–152 (2006)

[189] 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)

[190] 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)

[191] Egghe, L.: The influence of merging on h-type indices. Journal of Informetrics 2(3), 252–262 (2008)

[192] Egghe, L.: Modelling successive h-indices. Scientometrics 77(3), 377–387 (2008)

[193] Egghe, L.: Mathematical study of h-index sequences. Information Processing and Management 45(2), 288–297 (2009)

[194] Egghe, L.: Performance and its relation with productivity in Lotkaian systems. Scientometrics 81(2), 567–585 (2009)

[195] Egghe, L.: Time-dependent Lotkaian informetrics incorporating growth of sources and items. Mathematical and Computer Modelling 49(1–2), 31–37 (2009)

[196] Egghe, L.: The Hirsch index and related impact measures. Annual Review of Information Science and Technology 44, 65–114 (2010)

[197] 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)

[198] Egghe, L., Rousseau, R.: An informetric model for the Hirsch-index. Scientometrics 69(1), 121–129 (2006)

[199] 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)

[200] Everitt, B., Hothorn, T.: A Handbook of Statistical Analyses Using R. Chapman & Hall (2006)

[201] Eysenck, H., Eysenck, M.: Podpatrywanie umysłu. GWP, Gdańsk (2003)

[202] Fiala, D., Rousselot, F., Jezek, K.: PageRank for bibliographic networks. Scientometrics 76(1), 135–158 (2008)

[203] Field, C., Ronchetti, E.: Small sample asymptotics. Institute of Mathematical Statistics, Hayward, CA (1990)

[204] 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)

[205] Fisher, R.: On the mathematical foundations of theoretical statistics. Philosophical Transactions of the Royal Society A 222, 309–368 (1922)

[206] Fisher, R.: The correlation between relatives on the supposition of Mendelian inheritance. Philosophical Transactions of the Royal Society of Edinburgh 52, 399–433 (1918)

[207] Fisher, R.A., Yates, F.: Statistical tables for biological, agricultural and medical research. Oliver & Boyd, London (1938)

[208] 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)

[209] Fodor, J., Roubens, M.: Fuzzy Preference Modelling and Multicriteria Decision Support. Springer (1994)

[210] Fodor, J.C., Marichal, J.L.: On nonstrict means. Æquationes Mathematicæ 54(3), 308–327 (1997)

[211] Foley, J., van Dam, A., Feiner, S., Hughes, J., Phillips, R.: Wprowadzenie do grafiki komputerowej. WNT, Warszawa (2001)

[212] 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)

[213] Franceschini, F., Maisano, D.A.: The Hirsch index in manufacturing and quality engineering. Quality and Reliability Engineering International 25, 987–995 (2009)

[214] Franceschini, F., Maisano, D.A.: Analysis of the Hirsch index's operational properties. European Journal of Operational Research 203(2), 494–504 (2010)

[215] 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)

[216] Frank, A., Asuncion, A.: UCI machine learning repository (2013), archive.ics.uci.edu/ml

[217] Friedl, J.: Wyrażenia regularne. Helion, Gliwice (2001)

[218] Gagolewski, M.: A remark on limit properties of generalized h- and g- indices. Journal of Informetrics 3(4), 367–368 (2009)

[219] 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)

[220] Gagolewski, M.: Bibliometric impact assessment with R and the CITAN package. Journal of Informetrics 5(4), 678–692 (2011)

[221] 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, vol. 299, pp. 276–285. Springer (2012)

[222] Gagolewski, M.: On the relationship between symmetric maxitive, minitive, and modular aggregation operators. Information Sciences 221, 170–180 (2013)

[223] Gagolewski, M.: Scientific impact assessment cannot be fair. Journal of Informetrics 7(4), 792–802 (2013)

[224] Gagolewski, M.: Statistical hypothesis test for the difference between Hirsch indices of two Pareto-distributed random samples. In: Kruse, R., et al. (eds.) Synergies of Soft Computing and Statistics for Intelligent Data Analysis, vol. 190, pp. 359–367. Springer (2013)

[225] Gagolewski, M.: `CITAN`: CITation ANalysis toolpack (2014), http://CRAN.R-project.org/package=CITAN

[226] Gagolewski, M.: Programowanie w języku R. Analiza danych, obliczenia, symulacje. Wydawnictwo Naukowe PWN, Warszawa (2014)

[227] Gagolewski, M.: `FuzzyNumbers`: Tools to deal with fuzzy numbers in R (2014), http://FuzzyNumbers.rexamine.com

[228] Gagolewski, M.: Spread measures and their relation to aggregation functions. European Journal of Operational Research 241(2), 469–477 (2015)

[229] 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, vol. 315, pp. 233–240. Springer (2015)

[230] Gagolewski, M., Cena, A.: `agop`: Aggregation operators and preordered sets in R (2014), http://agop.rexamine.com

[231] 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 (2013)

[232] Gagolewski, M., Grzegorzewski, P.: A geometric approach to the construction of scientific impact indices. Scientometrics 81(3), 617–634 (2009)

[233] Gagolewski, M., Grzegorzewski, P.: Possible and necessary h-indices. In: Carvalho, J.P., et al. (eds.) Proc. IFSA/Eusflat 2009. pp. 1691–1695 (2009)

[234] 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, vol. 80, pp. 693–702. Springer (2010)

[235] 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)

[236] 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, pp. 281–288. Springer (2010)

[237] 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 2011. pp. 53–58 (2011)

[238] 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)

[239] 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. vol. 323, pp. 289–300. Springer (2015)

[240] Gagolewski, M., Mesiar, R.: Aggregating different paper quality measures with a generalized h-index. Journal of Informetrics 6(4), 566–579 (2012)

[241] 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)

[242] Gagolewski, M., Tartanus, B.: R package stringi: Character string processing facilities (2014), http://stringi.rexamine.com/, doi:10.5281/zenodo.12594

[243] Garcia-Perez, M.: A multidimensional extension to Hirsch's h-index. Scientometrics 81(3), 779–785 (2009)

[244] Garfield, E.: Citation indexes for science. Science 122(3159), 108–111 (1955)

[245] 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)

[246] Garfield, E.: Random thoughts on citationology. Its theory and practice. Scientometrics 43(1), 69–76 (1998)

[247] Garfield, E.: The history and meaning of the Journal Impact Factor. Journal of American Medical Association 295(1), 90–93 (2006)

[248] 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)

[249] Gärtner, B.: Fast and robust smallest enclosing balls. Lecture Notes in Computer Science 1643, 325–338 (1999)

[250] 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)

[251] Gentle, J.: Random Number Generation and Monte Carlo Methods. Springer-Verlag (2003)

[252] Gentle, J.: Matrix Algebra. Springer-Verlag (2007)

[253] Gentle, J.: Computational Statistics. Springer-Verlag (2009)

[254] 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)

[255] Ghiselli Ricci, R.: Finitely and absolutely non idempotent aggregation operators. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems 12(2), 201–217 (2004)

[256] Ghiselli Ricci, R.: Asymptotically idempotent aggregation operators. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems 17(5), 611–631 (2009)

[257] Ghiselli Ricci, R., Mesiar, R.: Multi-attribute aggregation operators. Fuzzy Sets and Systems 181(1), 1–13 (2011)

[258] 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)

[259] Glänzel, W.: On the opportunities and limitations of the H-index. Science Focus 1(1), 10–11 (2006)

[260] Glänzel, W.: Some new applications of the h-index. ISSI Newsletter 3(2), 28–31 (2007)

[261] Glänzel, W.: H-index concatenation. Scientometrics 77(2), 369–372 (2008)

[262] Glänzel, W.: On some new bibliometric applications of statistics related to the h-index. Scientometrics 77(1), 187–196 (2008)

[263] Glänzel, W.: Seven myths in bibliometrics. About facts and fiction in quantitative science studies. COLL-NET Journal of Scientometrics and Information Management 2(1), 9–17 (2008)

[264] Glänzel, W., Persson, O.: H-index for price medalists. ISSI Newsletter 1(4), 15–18 (2005)

[265] Goldberg, D.: What every computer scientist should know about floating-point arithmetic. ACM Computing Surveys 21(1), 5–48 (1991)

[266] Goldfarb, D., Idnani, A.: A numerically stable dual method for solving strictly convex quadratic programs. Mathematical Programming 27, 1–33 (1983)

[267] 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)

[268] Grabisch, M.: k-order additive discrete fuzzy measures and their representation. Fuzzy Sets and Systems 92(167–189) (1997)

[269] Grabisch, M.: A graphical interpretation of the Choquet integral. IEEE Transactions on Fuzzy Systems 8(5), 627–631 (2000)

[270] Grabisch, M.: How to score alternatives when criteria are scored on an ordinal scale. Journal of Multi-Criteria Decision Analysis 15, 31–44 (2008)

[271] Grabisch, M., Marichal, J.L., Mesiar, R., Pap, E.: Aggregation functions. Cambridge University Press (2009)

[272] Grabisch, M., Marichal, J.L., Mesiar, R., Pap, E.: Aggregation functions: Construction methods, conjunctive, disjunctive and mixed classes. Information Sciences 181, 23–43 (2011)

[273] Grabisch, M., Marichal, J.L., Mesiar, R., Pap, E.: Aggregation functions: Means. Information Sciences 181, 1–22 (2011)

[274] Graham, R.L.: An efficient algorithm for determining the convex hull of a finite planar set. Information Processing Letters 1, 132–133 (1972)

[275] Greco, S., Mesiar, R., Rindone, F.: Two new characterizations of universal integrals on the scale $[0, 1]$. Information Sciences (2014), doi:10.1016/j.ins.2013.12.056

[276] Groes, E., Jacobsen, H.J., Sloth, B., Tranæs, T.: Axiomatic characterizations of the Choquet integral. Economic Theory 12, 441–448 (1998)

[277] Gross, P.L.K., Gross, E.M.: College libraries and chemical education. Science 66(1713), 385–389 (1927)

[278] Grübel, R.: Orthogonalization of multivariate location estimators: The orthomedian. The Annals of Statistics 24(4), 1457–1473 (1996)

[279] Grzegorzewski, P.: Metrics and orders in space of fuzzy numbers. Fuzzy Sets and Systems 97, 83–94 (1998)

[280] 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)

[281] 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. Atlantic Press (2011)

[282] Grzegorzewski, P.: Wspomaganie decyzji w warunkach niepewności. Metody statystyczne dla nieprecyzyjnych danych. Exit, Warszawa (2006)

[283] Grzegorzewski, P., Gagolewski, M., Bobecka-Wesołowska, K.: Wnioskowanie statystyczne z wykorzystaniem środowiska R. Biuro ds. Projektu „Program Rozwojowy Politechniki Warszawskiej", Warszawa (2014)

[284] Grzegorzewski, P., Gagolewski, M., Hryniewicz, O., Gil, M.A.: Strengthening Links Between Data Analysis and Soft Computing, vol. 315. Springer (2015)

[285] Grzegorzewski, P., Mrówka, E.: Some notes on (Atanassov's) intuitionistic fuzzy sets. Fuzzy Sets and Systems 156, 492–495 (2005)

[286] 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)

[287] Güngör, Z., Ünler, A.: K-harmonic means data clustering with simulated annealing heuristic. Applied Mathematics and Computation 184, 199–209 (2007)

[288] Guns, R., Rousseau, R.: Real and rational variants of the h-index and the g-index. Journal of Informetrics 3(1), 64–71 (2009)

[289] 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)

[290] Gupta, B.M., Sharma, L., Karisiddappa, C.R.: Modelling the growth of papers in a scientific speciality. Scientometrics 33(2), 187–201 (1995)

[291] Halmos, P.: Measure Theory. Van Nostrand, New York (1950)

[292] Hamming, R.W.: Error detecting and error correcting codes. Bell System Technical Journal 29(2), 147–160 (1950)

[293] Harel, D.: Rzecz o istocie informatyki. WNT, Warszawa (2001)

[294] 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)

[295] 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)

[296] Hastie, T., Tibshirani, R., Friedman, J.: The Elements of Statistical Learning: Data Mining, Inference, and Prediction. Springer-Verlag (2009)

[297] Hastie, T., Tibshirani, R., Friedman, J.: The Elements of Statistical Learning. Springer (2013)

[298] Heller, M.: Jak być uczonym. Znak, Kraków (2009)

[299] Helmers, R., Ruymgaart, F.H.: Asymptotic normality of generalized L-statistics with unbounded scores. Journal of Statistical Planning and Inference 19, 43–53 (1988)

[300] Higham, N.: Accuracy and Stability of Numerical Algorithms. SIAM, Philadelphia (2002)

[301] Hirota, K.: Concepts of probabilistic sets. Fuzzy Sets and Systems 5, 31–46 (1981)

[302] Hirsch, J.E.: An index to quantify individual's scientific research output. Proceedings of the National Academy of Sciences 102(46), 16569–16572 (2005)

[303] Hirsch, J.E.: Does the h-index have predictive power? Proceedings of the National Academy of Sciences 104(49), 19193–19198 (2007)

[304] Hoeffding, W.: Probability inequalities for sums of bounded random variables. Journal of the American Statistical Association 58(301), 13–30 (1963)

[305] Hopcroft, J., Ullman, J.: Wprowadzenie do teorii automatów, języków i obliczeń. PWN, Warszawa (2003)

[306] Hornik, K., Murdoch, D.: Watch your spelling! The R Journal 3(2), 22–28 (2011)

[307] Hornowska, E.: Testy psychologiczne. Teoria i praktyka. Scholar, Warszawa (2007)

[308] Hou, H., Kretschmer, H., Liu, Z.: The structure of scientific collaboration networks in *Scientometrics*. Scientometrics 75(2), 189–202 (2008)

[309] 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)

[310] 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)

[311] 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)

[312] 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)

[313] 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)

[314] Hwang, Y.A.: An axiomatization of the Hirsch-index without adopting monotonicity. Applied Mathematics and Information Sciences 7(4), 1317–1322 (2013)

[315] Hyndman, R.J., Fan, Y.: Sample quantiles in statistical packages. The American Statistician 50(4), 361–365 (1996)

[316] 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)

[317] 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)

[318] Jakubowski, J., Sztencel, R.: Wstęp do teorii pradopodobieństwa. Script, Warszawa (2010)

[319] James, D.A.: `RSQLite`: SQLite interface for R (2010), `http://CRAN.R-project.org/package=RSQLite`, R package version 0.9-4

[320] Jaworski, P., Durante, F., Härdle, W., Rychlik, T.: Copula Theory and Its Applications. Springer-Verlag (2010)

[321] Jensen, P., Rouquier, J.B., Croissant, Y.: Testing bibliometric indicators by their prediction of scientific promotions. Scientometrics 78(3), 467–479 (2009)

[322] 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)

[323] 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)

[324] Johnson, R.: Modern Geometry: An Elementary Treatise on the Geometry of the Triangle and the Circle. Houghton Mifflin, Boston, MA (1929)

[325] Jones, O., Maillardet, R., Robinson, A.: Introduction to Scientific Programming and Simulation Using R. Chapman & Hall/CRC (2009)

[326] Kate, S., Bhapkar, H.: Basic of Mathematics. Technical Publication Pune (2010)

[327] 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)

[328] Kelly, C.D., Jennions, M.D.: The h index and career assessment by numbers. TRENDS in Ecology and Evolution 21(4), 167–170 (2006)

[329] Kerns, G.: Introduction to Probability and Statistics Using R (2011), www.ipsur.org

[330] Kierzek, R.: Polska nauka w indeksie Hirscha. Biuletyn MNiSW 137(6–7), 29–35 (2008)

[331] 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)

[332] Kimberling, C.: Central points and central lines in the plane of a triangle. Mathematics Magazine 67(3), 163–187 (1994)

[333] Kimberling, C.: Triangle centers and central triangles. Congr. Numer.e 129, 1–295 (1998)

[334] Klement, E., Manzi, M., Mesiar, R.: Ultramodular aggregation functions. Information Sciences 181, 4101–4111 (2011)

[335] 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)

[336] Klement, E.P., Mesiar, R., Pap, E.: Triangular norms. Kluwer Academic Publishers (2000)

[337] Klir, G.J., Yuan, B.: Fuzzy sets and fuzzy logic. Theory and applications. Prentice Hall PTR, New Jersey (1995)

[338] Knuth, D.: Literate Programming. CSLI (1992)

[339] Knuth, D.: Sztuka programowania. Tom I. Algorytmy podstawowe. WNT, Warszawa (2002)

[340] Knuth, D.: Sztuka programowania. Tom II. Algorytmy seminumeryczne. WNT, Warszawa (2002)

[341] Knuth, D.: Sztuka programowania. Tom III. Sortowanie i wyszukiwanie. WNT, Warszawa (2002)

[342] Knuth, D.: TeX. Podręcznik użytkownika. WNT, Warszawa (2005)

[343] Knuth, D.E.: The Art of Computer Programming. Volume 2. Seminumerical Algorithms. Addison Wesley, Reading, MA (1998)

[344] Konohen, T.: Median strings. Pattern Recognition Letters 3, 309–313 (1985)

[345] 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)

[346] Koronacki, J., Ćwik, J.: Statystyczne systemy uczące się. WNT, Warszawa (2005)

[347] Koronacki, J., Mielniczuk, J.: Statystyka. WNT, Warszawa (2001)

[348] Koshevoy, G., Mosler, K.: Zonoid trimming for multivariate distributions. The Annals of Statistics 25(5) (1997)

[349] 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)

[350] 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), (2007)

[351] Kostal, L., Lansky, P., Pokora, O.: Measures of statistical dispersion based on Shannon and Fisher information concepts. Information Sciences 235, 214–223 (2013)

[352] Kostoff, R.N.: The use and misuse of citation analysis in research evaluation. Scientometrics 43(1), 27–43 (1998)

[353] Krarup, J., Vajda, S.: On Torricelli's geometrical solution to a problem of Fermat. IMA Journal of Management Mathematics 8, 215–223 (1997)

[354] Krause, A., Olson, M.: The Basics of S-PLUS. Springer-Verlag (2005)

[355] Kuhn, T.S.: Struktura rewolucji naukowych. Aletheia, Warszawa (2001)

[356] Kuhn, T.S.: Przewrót kopernikański. Astronomia planetarna w dziejach myśli Zachodu. Prószyński i ska, Warszawa (2006)

[357] Kuś, M., Mankiewicz, L., Życzkowski, K.: Porównywanie indeksów Hirscha uczonych i instytucji naukowych. Biuletyn MNiSW 144(3), 30–33 (2009)

[358] Lang, R.: A note on the measurability of convex sets. Arch. Math 47, 90–92 (1986)

[359] Lange, K.: Numerical Analysis for Statisticians. Springer-Verlag (2010)

[360] Lavine, M.: Introduction to Statistical Thought (2010), www.math.umass.edu/~lavine/Book/book.html

[361] Lawrence, M., Temple Lang, D.: RGtk2: A graphical user interface toolkit for R. Journal of Statistical Software 37(8), 1–52 (2010)

[362] Lehmann, S., Jackson, A.D., Lautrup, B.E.: Measures for measures. Nature 444, 1003–1004 (2006)

[363] Lehmann, S., Jackson, A.D., Lautrup, B.E.: A quantitative analysis of indicators of scientific performance. Scientometrics 76(2), 369–390 (2008)

[364] Levenshtein, V.I.: Binary codes capable of correcting deletions, insertions, or reversals. Soviet Physics Doklady 10(8), 707–710 (1966)

[365] Leydesdorff, L.: Various methods for the mapping of science. Scientometrics 11(5–6), 295–324 (1987)

[366] Leydesdorff, L.: Theories of citation? Scientometrics 43(1), 5–25 (1998)

[367] Leydesdorff, L.: The non-linear dynamics of meaning-processing in social systems. Social Science Information 48(1), 5–33 (2009)

[368] 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)

[369] Li, W.: Random texts exhibit Zipf's-law-like word frequency distribution. IEEE Transactions on Information Theory 38(6), 1842–1845 (1992)

[370] 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)

[371] Liu, R.Y.: On a notion of data depth based on random simplices. Annals of Statistics 18, 405–414 (1990)

[372] 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)

[373] 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)

[374] 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)

[375] Lizasoain, I., Moreno, C.: OWA operators defined on complete lattices. Fuzzy Sets and Systems 224, 36–52 (2013)

[376] 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)

[377] Lowrance, R., Wagner, R.A.: An extension of the string-to-string correction problem. Journal of the ACM 22(2), 177–183 (1975)

[378] 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)

[379] Ma, N., Guan, J., Zhao, Y.: Bringing PageRank to the citation analysis. Information Processing & Management 44, 800–810 (2008)

[380] 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)

[381] 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)

[382] Magiera, R.: Modele i metody statystyki matematycznej. Część I. Rozkłady i symulacja stochastyczna. GiS, Wrocław (2007)

[383] Magiera, R.: Modele i metody statystyki matematycznej. Część II. Wnioskowanie statystyczne. GiS, Wrocław (2007)

[384] Makino, J.: Productivity of research groups — Relation between citation analysis and reputation within research communities. Scientometrics 43(1), 87–93 (1998)

[385] Mallig, N.: A relational database for bibliometric analysis. Journal of Informetrics 4(4), 564–580 (2010)

[386] 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)

[387] Marchant, T.: Score-based bibliometric rankings of authors. Journal of the American Society for Information Science and Technology 60(6), 1132–1137 (2009)

[388] Marichal, J.L.: On an axiomatization of the quasi-arithmetic mean values without the symmetry axiom. Æquationes Mathematicæ 59(1–2), 74–83 (2000)

[389] Marichal, J.L.: On order invariant synthesizing function. Journal of Mathematical Psychology 46(6), 661–676 (2002)

[390] Marichal, J.L., Mathonet, P.: On comparison meaningfulness of aggregation functions. Journal of Mathematical Psychology 45(2), 213–223 (2001)

[391] 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)

[392] Marichal, J.L., Mesiar, R.: Aggregation of finite ordinal scales by scale independent functions. Order 21(2), 155–180 (2004)

[393] Marichal, J.L., Mesiar, R., Rückschlossova, T.: A complete description of comparison meaningful functions. Æquationes Mathematicæ 69, 309–320 (2005)

[394] Marichal, J.L., Rubens, M.: Characterization of some stable aggregation functions. In: Proc. 1st Conf. on Industrial Engineering and Production Management (IEPM'93). pp. 187–196 (1993)

[395] Marsaglia, G.: Choosing a point from the surface of a sphere. Annals of Mathematical Statistics 43, 645–646 (1972)

[396] Marsaglia, G., Marsaglia, J.: Evaluating the Anderson-Darling distribution. Journal of Statistical Software 9(2) (2004)

[397] Martín, J., Mayor, G., Suñer, J.: On dispersion measures. Mathware & Soft Computing 8, 227–237 (2001)

[398] Martin, J., Mayor, G.: Aggregating pairwise distance values. In: Proc. EUROFUSE'09. pp. 147–152 (2009)

[399] Martin, J., Mayor, G.: How separated Palma, Inca and Manacor are? In: Proc. AGOP 2009. pp. 195–200 (2009)

[400] 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)

[401] Martin, J., Mayor, G.: Multi-argument distances. Fuzzy Sets and Systems 167, 92–100 (2011)

[402] Martin, J., Mayor, G., Valero, O.: Functionally expressible multidistances. In: Galichet, S., et al. (eds.) Proc. Eusflat/LFA 2011. pp. 41–46 (2011)

[403] Matloff, N., Salzman, P.: The Art of Debugging with GDB, DDD, and Eclipse. No Starch Press (2008)

[404] Matloff, N.: The Art of R Programming: A Tour of Statistical Software Design. No Starch Press (2011)

[405] Matsumoto, M., Nishimura, T.: Mersenne twister: A 623-dimensionally equidistributed uniform pseudo-random number generator. ACM Transactions on Modeling and Computer Simulation 8(1), 3–30 (1998)

[406] May, K.O.: A set of independent necessary and sufficient conditions for simple majority decision. Econometrica 20(4), 680–684 (1952)

[407] May, K.O.: A note of the complete independence of the conditions for simple majority decision. Econometrica 21(1), 172–173 (1953)

[408] Mayor, G., Calvo, T.: On extended aggregation functions. In: Proc. IFSA 1997. vol. 1, pp. 281–285. Academia, Prague (1997)

[409] Mays, E., Damerau, F.J., Mercer, R.L.: Context based spelling correction. Information Processing & Management 27(2), 517–522 (1991)

[410] 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)

[411] 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)

[412] 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)

[413] Mesiar, R., Pap, E.: Aggregation of infinite sequences. Information Sciences 178, 3557–3564 (2008)

[414] Mesiar, R.: Fuzzy set approach to the utility, preference relations, and aggregation operators. European Journal of Operational Research 176, 414–422 (2007)

[415] Mesiar, R., Mesiarová-Zemánková, A.: The ordered modular averages. IEEE Transactions on Fuzzy Systems 19(1), 42–50 (2011)

[416] Mesiar, R., Rückschlossova, T.: Characterization of invariant aggregation operators. Fuzzy Sets and Systems 142, 63–73 (2004)

[417] Mesiar, R., Stupnňanová, A.: Decomposition integrals. International Journal of Approximate Reasoning 54(8), 1252–1259 (2013)

[418] 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

[419] 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)

[420] Miroiu, A.: Axiomatizing the hirsch index: Quantity and quality disjoined. Journal of Informetrics 7, 10–15 (2013)

[421] Mittal, H.: R Graphs Cookbook. Packt Publishing (2011)

[422] Miyamoto, S.: Application of rough sets to information retrieval. Journal of the American Society for Information Science 49(3), 195–205 (1998)

[423] Moed, H.F.: Measuring contextual citation impact of scientific journals. Journal of Informetrics 4(3), 265–277 (2010)

[424] Monahan, J.: Numerical Methods of Statistics. Oxford University Press (2001)

[425] Morgan, H.L.: Spelling correction in systems programs. Journal of the ACM 13(2), 90–94 (1970)

[426] Mosteller, C.F., Tukey, J.W.: Data analysis and regression. Addison-Wesley, Reading, Mass. (1977)

[427] Muenchen, R.: R for SAS and SPSS Users. Springer-Verlag (2011)

[428] Muenchen, R., Hilbe, J.: R for Stata Users. Springer-Verlag (2010)

[429] Murrell, P.: R Graphics. Chapman & Hall/CRC (2006)

[430] Murrell, P.: Raster images in R graphics. The R Journal 3(1), 48–54 (2011)

[431] Nair, G.M., Turlach, B.A.: The stochastic h-index. Journal of Informetrics 6(1), 80–87 (2012)

[432] Narukawa, Y., Torra, V.: Multidimensional generalized fuzzy integral. Fuzzy Sets and Systems 160, 802–815 (2009)

[433] Navarro, G.: A guided tour to approximate string matching. ACM Computing Surveys 33(1), 31–88 (2001)

[434] 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)

[435] Nelder, J., Mead, R.: A simplex method for function minimization. Computer Journal 7, 308–313 (1965)

[436] Nelsen, R.: An Introduction to Copulas. Springer-Verlag (1999)

[437] Nicholls, P.T.: Estimation of Zipf parameters. Journal of the American Society for Information Science 38(6), 443–445 (1987)

[438] 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)

[439] Nicolini, C., Vakula, S., Italo Balla, M., Gandini, E.: Can the assignment of university chairs be automated? Scientometrics 32(2), 93–107 (1995)

[440] Nocedal, J., Wright, S.: Numerical Optimization. Springer-Verlag, New York (2006)

[441] Norris, M., Oppenheim, C.: Peer review and the h-index: Two studies. Journal of Informetrics 4, 221–232 (2010)

[442] Nowak, P.: Bibliometria. Webometria. Podstawy. Wybrane zastosowania. UAM, Poznań (2008)

[443] Oetiker, T., Przechlewski, T., i in., R.K.: Nie za krótkie wprowadzenie do systemu LaTeX 2_ε (2007), ftp.gust.org.pl/pub/CTAN/info/lshort/polish/lshort2e.pdf

[444] 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)

[445] Oja, H.: Descriptive statistics for multivariate distributions. Statistics & Probability Letters 1, 327–332 (1983)

[446] Orlov, A.I.: The connection between mean quantities and admissible transformations. Mathematical Notes 30(4), 774–778 (1981)

[447] Ovchinnikov, S., Dukhovny, A.: On order invariant aggregation functionals. Journal of Mathematical Psychology 46, 12–18 (2002)

[448] Page, L., Brin, S., Motwani, R., Winograd, T.: The PageRank citation ranking: Bringing order to the Web. Tech. rep., Stanford University (1998)

[449] Palacios-Huerta, I., Volij, O.: The measurement of intellectual influence. Econometrica 72(3), 963–977 (2004)

[450] Panaretos, J., Malesios, C.: Assessing scientific research performance and impact with single indices. Scientometrics 81(3), 635–670 (2009)

[451] Papadimitriou, C., Steiglitz, K.: Combinatorial Optimization: Algorithms and Complexity. Prentice Hall, Englewood Cliffs, NJ (1982)

[452] Park, H.S., Jun, C.H.: A simple and fast algorithm for K-medoids clustering. Expert Systems with Applications 36, 3336–3341 (2009)

[453] Pearson, K.: Contributions to the mathematical theory of evolution. Philosophical Transactions of the Royal Society A 185, 71–110 (1894)

[454] Pedrycz, W.: Shadowed sets: Representing and processing fuzzy sets. IEEE Transactions on Systems, Man, and Cybernetics 28(1), 103–109 (1998)

[455] Peneva, V., Popchev, I.: Aggregation of fuzzy preference relations to multicriteria decision making. Fuzzy Optimization and Decision Making 6, 351–365 (2007)

[456] Pitman, E.: The estimation of the location and scale parameters of a continuous population of any given form. Biometrika 30, 391–421 (1939)

[457] Podlubny, I.: Comparison of scientific impact expressed by the number of citations in different fields of science. Scientometrics 64(1), 95–99 (2005)

[458] Prathap, G.: Is there a place for a mock h-index? Scientometrics 84, 153–165 (2010)

[459] Press, W., Teukolsky, S., Vetterling, W., Flannery, B.: Numerical Recipes. The Art of Scientific Computing. Cambridge University Press (2007)

[460] Price, D.J.: Networks of scientific papers. Science 149(3683), 510–515 (1965)

[461] Proń, A., Szatyłowicz, H.: Habilitacja dodaje „skrzydeł"? Forum Akademickie 3 (2006)

[462] Prpić, K.: Science ethics: A study of eminent scientists' professional values. Scientometrics 43(2), 269–298 (1998)

[463] Quesada, A.: Monotonicity and the Hirsch index. Journal of Informetrics 3(2), 158–160 (2009)

[464] Quesada, A.: More axiomatics for the Hirsch index. Scientometrics 82, 413–418 (2010)

[465] Quesada, A.: Axiomatics for the hirsch index and the egghe index. Journal of Informetrics 5(3), 476–480 (2011)

[466] Quesada, A.: Further characterizations of the Hirsch index. Scientometrics 87, 107–114 (2011)

[467] Rao, C.R.: Statistics and truth. Putting chance to work. World Scientific Publishing (1999)

[468] Rardin, R.: Optimization in Operations Research. Prentice Hall, Englewood Cliffs (1998)

[469] Rasiowa, H.: Wstęp do matematyki współczesnej. PWN, Warszawa (2003)

[470] 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)

[471] Ripley, B.: Internationalization features of R 2.1.0. R News 5(1), 2–7 (2005)

[472] Robert, C., Casella, G.: Monte Carlo Statistical Methods. Springer-Verlag (2004)

[473] Rothschild, M., Stiglitz, J.: Increasing risk: I. A definition. Journal of Economic Theory 2(3), 225–243 (1970)

[474] Roubens, M., Vincke, P.: Preference modeling. Lecture Notes in Economics and Mathematical Systems 250, Springer-Verlag, Berlin (1985)

[475] Rousseau, R.: Relations between continuous versions of bibliometric laws. Journal of the American Society for Information Science 41(3), 197–203 (1990)

[476] Rousseau, R.: Citation analysis as a theory of friction or polluted air? Scientometrics 43(1), 63–67 (1998)

[477] Rousseau, R.: The influence of missing publications on the Hirsch index. Journal of Informetrics 1(1), 2–7 (2007)

[478] 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)

[479] 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)

[480] Rousseeuw, P.J., Croux, C.: Alternatives to the median absolute deviation. Journal of the American Statistical Association 88(424), 1273–1283 (1993)

[481] Rousseeuw, P.J., Hubert, M.: Regression depth. Journal of the American Statistical Association 94(446), 388–402 (1999)

[482] Rousseeuw, P.J., Ruts, I.: Constructing the bivariate Tukey median. Statistica Sinica 8, 827–839 (1998)

[483] Rousseeuw, P.J., Ruts, I., Tukey, J.W.: The bagplot: A bivariate boxplot. The American Statistician 53(4), 382–387 (1999)

[484] 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)

[485] Rubin, D., Little, R.: Statistical Analysis with Missing Data. John Wiley & Sons (2002)

[486] Rytgaard, M.: Estimation in the Pareto distribution. ASTIN bulletin 20(2), 201–216 (1990)

[487] Saaty, T.: Fundamentals of decision making and priority theory with the analytic hierarchy process. RWS Publications, Pittsburgh (1994)

[488] 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)

[489] Sarkar, D.: Lattice: Multivariate Data Visualization with R. Springer-Verlag (2008)

[490] 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)

[491] 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).

[492] Schreiber, M.: How to modify the g-index for multi-authored manuscripts. Journal of Informetrics 4(1), 42–52 (2001)

[493] Schreiber, M.: A case study of Hirsch index for 26 non-prominent physicists. Annalen der Physik 16(9), 640–652 (2007)

[494] 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)

[495] 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)

[496] 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)

[497] Schubert, A.: Using the h-index for assessing single publications. Scientometrics 78(3), 559–565 (2009)

[498] Schubert, A., Glänzel, W.: A systematic analysis of Hirsch-type indices for journals. Journal of Informetrics 1, 179–184 (2007)

[499] Schubert, A., Korn, A., Telcs, A.: Hirsch-type indices for characterizing networks. Scientometrics 78(2), 375–382 (2009)

[500] 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)

[501] 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

[502] Serfling, R.J.: Approximation theorems of mathematical statistics. John Wiley & Sons, New York (1980)

[503] Shao, J.: Mathematical Statistics. Springer (2007)

[504] 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)

[505] 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)

[506] Shilkret, N.: Maxitive measure and integration. Indagationes Mathematicæ33, 109–116 (1971)

[507] Shumway, R., D.S., D.S.: Time Series Analysis and Its Applications with R Examples. Springer-Verlag (2011)

[508] Sidiropoulos, A., Katsaros, D., Manolopoulos, Y.: Generalized h-index for disclosing latent facts in citation networks. Scientometrics 72(2), 253–280 (2007)

[509] Silberschatz, A., Peterson, J., Gagne, G.: Podstawy systemów operacyjnych. WNT, Warszawa (2005)

[510] Simkin, M.V., Roychowdhury, V.P.: Read before you cite! Complex Syst. 14, 269–274 (2003)

[511] 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)

[512] Small, C.G.: A survey of multidimensional medians. International Statistical Review 58(3), 263–277 (1990)

[513] Small, H.: Citations and consilience in science. Scientometrics 43(1), 143–148 (1998)

[514] 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)

[515] Soetaert, K., Petzoldt, T., Setzer, R.: Solving differential equations in R. The R Journal 2(2), 5–15 (2010)

[516] Soler, J.M.: A rational indicator of scientific creativity. Journal of Informetrics 1(2), 123–130 (2007)

[517] Spector, P.: Data Manipulation with R. Springer-Verlag (2008)

[518] Stefanini, L., Sorini, L.: Fuzzy arithmetic with parametric LR fuzzy numbers. In: Proc. IFSA/EUSFLAT 2009. pp. 600–605 (2009)

[519] Stevens, S.S.: On the theory of scales of measurement. Science 103(2684), 677–680 (1946)

[520] Stewart, T.A.: Intellectual capital — The new wealth of organizations. Nicholas Brealey Publishing (1997)

[521] Stoer, J., Bulirsch, R.: Wstęp do analizy numerycznej. PWN, Warszawa (1987)

[522] 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)

[523] Stubblebine, T.: Wyrażenia regularne. Leksykon kieszonkowy. Helion, Gliwice (2001)

[524] Sugeno, M.: Theory of fuzzy integrals and its applications. Ph.D. thesis, Tokyo Institute of Technology (1974)

[525] Sun, H., Wei, Y.: A note on the PageRank algorithm. Applied Mathematics and Computation 179, 799–806 (2006)

[526] Sylvester, J.J.: A question in the geometry of situation. Quarterly Journal of Mathematics 1, 79 (1857)

[527] Szydłowski, M., Krawiec, A.: Scientific cycle model with delay. Scientometrics 52(1), 83–95 (2001)

[528] Szydłowski, M., Krawiec, A.: Growth cycles of knowledge. Scientometrics 78(1), 99–111 (2009)

[529] Szymanski, B.K., de la Rosa, J.L., Krishnamoorthy, M.: An internet measure of the value of citations. Information Sciences 185, 18–31 (2012)

[530] Tanenbaum, A.: Systemy operacyjne. Helion, Gliwice (2010)

[531] The CGAL Project: CGAL User and Reference Manual. CGAL Editorial Board, 4.5 edn. (2015), `http://doc.cgal.org/4.5/Manual/packages.html`

[532] Torra, V.: The weighted OWA operator. International Journal of Intelligent Systems 12, 153–166 (1997)

[533] Torra, V. (ed.): Information fusion in data mining, Studies in Fuzziness and Soft Computing, vol. 123. Springer-Verlag (2003)

[534] 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)

[535] Tukey, J.W.: Mathematics and the picturing of data. Proc. Intl. Congress of Mathematicians pp. 523–531 (1974)

[536] Tukey, J.: Some graphic and semigraphic displays. In: Bancroft, T. (ed.) Statistical Papers in Honor of George W. Snedecor, pp. 293–316. Ames (1972)

[537] Ukkonen, E.: On approximate string matching. Lecture Notes in Computer Science 158, 487–495 (1983)

[538] Ukkonen, E.: Approximate string-matching with q-grams and maximal matches. Theoretical Computer Science 92, 191–211 (1992)

[539] van der Loo, M.: The stringdist package for approximate string matching. The R Journal 6(1), 111–122 (2014)

[540] van Eck, N.J., Waltman, L.: Generalizing the h- and g-indices. Journal of Informetrics 2(4), 263–271 (2008)

[541] van Raan, A.: Sleeping beauties in science. Scientometrics 59(3), 467–472 (2004)

[542] 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)

[543] 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)

[544] 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)

[545] Vannucci, S.: Dominance dimension: A common parametric formulation for integer-valued scientific impact indices. Scientometrics 84, 43–48 (2010)

[546] Vazquez, A.: Statistics of citation networks (2001), arXiv:cond-mat/0105031v1

[547] Venables, W., Ripley, B.: S Programming. Springer-Verlag (2000)

[548] Venables, W., Ripley, B.: Modern Applied Statistics with S. Springer-Verlag (2002)

[549] 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)

[550] Vieira, E.S., Gomes, J.A.: A comparison of *Scopus* and *Web of Science* for a typical university. Scientometrics 81(2), 587–600 (2009)

[551] 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)

[552] Vinkler, P.: Comparative investigation of frequency and strength of motives toward referencing. The reference threshold model. Scientometrics 43(1), 107–127 (1998)

[553] Vinogradov, A.E.: Secular trend of academician aging. Scientometrics 43(1), 149–160 (1998)

[554] von Neumann, J., Morgenstern, O.: Theory of games and economic behavior. Princeton University Press, Princeton (1947)

[555] Wagner, R.A., Fischer, M.J.: The string-to-string correction problem. Journal of the ACM 21(1), 168–173 (1974)

[556] 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)

[557] 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)

[558] Waltman, L., van Eck, N.J., Wouters, P.: Counting publications and citations: Is more always better? Journal of Informetrics 7, 635–641 (2013)

[559] Wandelt, S., et al.: State-of-the-art in string similarity search and join. SIGMOD Record 43(1), 64–76 (2014)

[560] Warshall, S.: A theorem on boolean matrices. Journal of the ACM 9(1), 11–12 (1962)

[561] Weber, S.: Measures of fuzzy sets and measures of fuzziness. Fuzzy Sets and Systems 13, 247–271 (1984)

[562] Weiszfeld, E.: Sur le point par lequel la somme des distances de n points donnés est minimum. Tohoku Mathematics Journal 43, 355–386 (1937)

[563] Welzl, E.: Smallest enclosing disks (balls and ellipsoids). Lecture Notes in Computer Science 555, 359–370 (1991)

[564] Wickham, H.: ggplot2: Elegant Graphics for Data Analysis. Springer-Verlag (2009)

[565] Wickham, H.: stringr: modern, consistent string processing. The R Journal 2(2), 38–40 (2010)

[566] Wickham, H.: testthat: Get started with testing. The R Journal 3(1), 5–10 (2011)

[567] Wieczorkowski, R., Zieliński, R.: Komputerowe generatory liczb losowych. WNT, Warszawa (1997)

[568] Wilkin, T., Beliakov, G.: Weakly monotonic averaging functions. International Journal of Intelligent Systems 30(2), 144–169 (2015)

[569] Wilkin, T., Beliakov, G., Calvo, T.: Weakly monotone averaging functions. Communications in Computer and Information Science 444, 364–373 (2014)

[570] Wilkinson, L.: The Grammar of Graphics. Springer-Verlag (2005)

[571] Woeginger, G.J.: An axiomatic analysis of Egghe's g-index. Journal of Informetrics 2(4), 364–368 (2008)

[572] Woeginger, G.J.: An axiomatic characterization of the Hirsch-index. Mathematical Social Sciences 56(2), 224–232 (2008)

[573] Woeginger, G.J.: A symmetry axiom for scientific impact indices. Journal of Informetrics 2, 298–303 (2008)

[574] Woeginger, G.J.: Generalizations of Egghe's g-index. Journal of the American Society for Information Science and Technology 60(6), 1267–1273 (2009)

[575] Woeginger, G.J.: An algorithmic comparison of three scientific impact indices. Acta Cybernetica 19, 661–672 (2010)

[576] Wolsey, L.: Integer Programming. John Wiley & Sons, New York (1998)

[577] Wróblewski, A.K.: Bibliometryczne nieporozumienia. Forum Akademickie 9 (2001)

[578] 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)

[579] Xie, Y.: Dynamic Documents with R and knitr. Chapman & Hall/CRC (2013)

[580] 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)

[581] Yager, R.R.: Prioritized aggregation operators. International Journal of Approximate Reasoning 48(1), 263–274 (2008)

[582] Yager, R.R.: On generalized Bonferroni mean operators for multi-criteria aggregation. International Journal of Approximate Reasoning 50, 1279–1286 (2009)

[583] Yager, R.R., Filev, D.P.: Essentials of fuzzy modeling and control. Wiley (1994)

[584] Yager, R.R., Kacprzyk, J. (eds.): The ordered weighted averaging operators. Theory and applications. Kluwer Academic Publishers, Norwell (1997)

[585] Yager, R.R., Rybalov, A.: Understanding the median as a fusion operator. International Journal of General Systems 26(3), 239–263 (1997)

[586] Yan, J.: Enjoy the joy of copulas: With a package copula. Journal of Statistical Software 21(4), 1–21 (2007)

[587] 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)

[588] Yeh, C.T.: Trapezoidal and triangular approximations preserving the expected interval. Fuzzy Sets and Systems 159, 1345–1353 (2008)

[589] 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)

[590] Young, N.S., Ioannidis, J.P.A., Al-Ubaydli, O.: Why current publication practices may distort science. PLoS Medicine 5(10), 1418–1422 (2008)

[591] 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)

[592] Zadeh, L.A.: Fuzzy sets. Information and Control 8, 338–353 (1965)

[593] 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)

[594] Zhang, B.: K-harmonic means – A data clustering algorithm. Tech. Rep. HPL-1999-124, HP Laboratories, Palo Alto (1999)

[595] Zhang, B., Hsu, M., Dayal, U.: K-harmonic means - A spatial clustering algorithm with boosting. Lecture Notes in Artificial Intelligence 2007, 31–45 (2001)

[596] Zhang, J.: Improving on estimation for the Generalized Pareto Distribution. Technometrics 52(3), 335–339 (2010)

[597] Zhang, J., Stephens, M.A.: A new and efficient estimation method for the Generalized Pareto Distribution. Technometrics 51(3), 316–325 (2009)

[598] Zhivotovsky, L.A., Krutowsky, K.V.: Self-citation can inflate h-index. Scientometrics 77(2), 373–375 (2008)

[599] Zieliński, R.: Siedem wykładów wprowadzających do statystyki matematycznej. PWN, Warszawa (1990)

[600] Zieliński, R.: Przedziały ufności dla frakcji. Matematyka Stosowana 10, 51–68 (2009)

[601] Życzkowski, K.: Indeksy cytowań i wiosła. Forum Akademickie 9, 22–25 (2008)