















- [3] Oscar Cerdón, María José del Jesus, and Francisco Herrera. A proposal on reasoning methods in fuzzy rule-based classification systems. *International Journal of Approximate Reasoning*, 20(1):21–45, 1999.
- [4] Ludmila I. Kuncheva. On the equivalence between fuzzy and statistical classifiers. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, 4(3):245–253, 1996.
- [5] D.P. Mandal, C.A. Murthy, and S.K. Pal. Formulation of a multivalued recognition system. *Systems, Man and Cybernetics, IEEE Transactions on*, 22(4):607–620, 1992.
- [6] I.B. Turksen and Y. Tian. Combination of rules or their consequences in fuzzy expert systems. *Fuzzy Sets and Systems*, 58(1):3–40, 1993.
- [7] O. Cerdón, F. Herrera, and A. Peregrín. Applicability of the fuzzy operators in the design of fuzzy logic controllers. *Fuzzy Sets and Systems*, 86(1):15–41, 1997.
- [8] G. Choquet. Theory of capacities. *Annals de l'Institut Fourier*, 5:131–295, 1953–1954.
- [9] M. Sugeno. *Theory of fuzzy integrals and its applications*. PhD thesis, Tokyo Institute of Technology, 1974.
- [10] J. Alcalá-Fdez, L. Sánchez, S. García, M. J. del Jesus, S. Ventura, J. Garrell, J. Otero, C. Romero, J. Bacardit, V. Rivas, J. C. Fernández, and F. Herrera. Keel: a software tool to assess evolutionary algorithms for data mining problems. *Soft Computing*, 13(3):307–318, 2009.
- [11] J. Alcalá-Fdez, A. Fernández, J. Luengo, J. Derrac, S. García, L. Sánchez, and F. Herrera. KEEL data-mining software tool: Data set repository, integration of algorithms and experimental analysis framework. *Journal of Multiple-Valued Logic and Soft Computing*, 17(2–3):255–287, 2011.
- [12] J. Demšar. Statistical comparisons of classifiers over multiple data sets. *Journal of Machine Learning Research*, 7:1–30, 2006.
- [13] Salvador García, Alberto Fernández, Julián Luengo, and Francisco Herrera. Advanced nonparametric tests for multiple comparisons in the design of experiments in computational intelligence and data mining: Experimental analysis of power. *Information Sciences*, 180(10):2044–2064, 2010.
- [14] L. A. Zadeh. Fuzzy sets. *Information and control*, 8(3):338–353, 1965.
- [15] G. Beliakov, A. Pradera, and T. Calvo. *Aggregation Functions: A Guide for Practitioners. What is an aggregation function*. Studies In Fuzziness and Soft Computing, Springer, San Mateo-California, 2007.
- [16] T. Calvo, A. Kolesarova, M. Komornikova, and R. Mesiar. *Aggregation Operators New Trends and Applications: Aggregation operators: properties, classes and construction methods*. Physica-Verlag, Heidelberg, 2002.
- [17] Vicenç Torra and Yasuo Narukawa. The interpretation of fuzzy integrals and their application to fuzzy systems. *International Journal of Approximate Reasoning*, 41(1):43–58, 2006.
- [18] Hisao Ishibuchi and T. Nakashima. Effect of rule weights in fuzzy rule-based classification systems. *IEEE Transactions on Fuzzy Systems*, 9(4):506–515, 2001.
- [19] Z. Chi, H. Yan, and T. Pham. *Fuzzy algorithms with applications to image processing and pattern recognition*. World Scientific, 1996.
- [20] L. X. Wang and J. M. Mendel. Generating fuzzy rules by learning from examples. *IEEE Transactions on Systems, Man, and Cybernetics*, 25(2):353–361, 1992.
- [21] Hisao Ishibuchi and T. Yamamoto. Rule weight specification in fuzzy rule-based classification systems. *IEEE Transactions on Fuzzy Systems*, 13(4):428–435, 2005.
- [22] A. Jurio, H. Bustince, M. Pagola, A. Pradera, and R.R. Yager. Some properties of overlap and grouping functions and their application to image thresholding. *Fuzzy Sets and Systems*, (0):–, 2013.
- [23] H. Bustince, J. Fernandez, R. Mesiar, J. Montero, and R. Orduna. Overlap functions. *Non-linear Analysis: Theory, Methods & Applications*, 72(3–4):1488–1499, 2010.
- [24] H. Bustince, M. Pagola, R. Mesiar, E. Hullermeier, and F. Herrera. Grouping, overlap, and generalized bintropic functions for fuzzy modeling of pairwise comparisons. *Fuzzy Systems, IEEE Transactions on*, 20(3):405–415, 2012.
- [25] L.J. Eshelman. *Foundations of Genetic Algorithms*, chapter The CHC adaptive search algorithm: How to have safe search when engaging in nontraditional genetic recombination, pages 265–283. Morgan Kaufman, 1991.
- [26] Francisco Herrera, Manuel Lozano, and Ana María Sánchez. A taxonomy for the crossover operator for real-coded genetic algorithms: An experimental study. *International Journal of Intelligent Systems*, 18(3):309–338, 2003.
- [27] J. L. Hodges and E. L. Lehmann. Ranks methods for combination of independent experiments in analysis of variance. *Annals of Mathematical Statistics*, 33:482–497, 1962.
- [28] S. Holm. A simple sequentially rejective multiple test procedure. *Scandinavian Journal of Statistics*, 6:65–70, 1979.