

Bibliography

- [1] A.A.Tshuprow. On the mathematical expectation of moments of frequency distribution. *Biometrika*, pages 185-210, 1921.
- [2] A.An, N.Cercone. Discretization of continuous attributes for learning classification rules. In *Proceedings of the 3rd Pacific-Asia Conference on Methodologies for Knowledge Discovery and Data Mining (1999)*, pp. 509-514, 1999.
- [3] A.D.Cliff and J.K.Ord. *Spatial processes, models and applications*, London : Pion limited, 1986.
- [4] A. De Luca and S. Termini. A definition of a nonprobabilistic entropy in the setting of fuzzy sets theory. *Information and Control*, 20:301-312, 1972.
- [5] A. Kusiak. Feature transformation methods in data mining. *IEEE Trans. on Electronics Packaging Manufacturing*, 24(3):214-221, 2001.
- [6] B. Apolloni, G. Zamponi, and A.M. Zanaboni. Learning fuzzy decision trees. *Neural Networks*, 11:885-895, 1998.
- [7] A. Suarez and F. Lutsko. Globally optimal fuzzy decision trees for classification and regression. *IEEE Transactions Pattern Analysis Machine Intelligence*, 21(12):1297-1311, December 1999.
- [8] B.Efron. Estimating the error rate of a prediction rule: improvement on cross-validation. *Journal of the American Statistical Association* 1983; 78: 316-331.
- [9] B.Efron, R.Tibshirani. *An Introduction to the Bootstrap*. Chapman and Hall, 1998.

- [10] B. Kosko. Neural networks and fuzzy systems: A Dynamical Systems Approach to Machine Intelligence. Prentice Hall, 1992.
- [11] Bernhard Pfahringer: Compression-Based Discretization of Continuous Attributes. ICML 1995: 456-463, 1995.
- [12] B.V. Dasarathy. Nearest Neighbor (NN) Norms: NN Pattern Classification Techniques, ISBN 0-8186-8930-7, 1991.
- [13] C.Bishop, M.Svensen, C.Williams. GTM: The generative topographic mapping. Neural Computation, 10 (1): 215-234, 1998.
- [14] C. C. Chan, C. Batur, A. Srinivasan : Determination of quantization intervals in rule based model for dynamic , 1991.
- [15] C.L.Blake, C.J.Merz. UCI Repository of machine learning databases [<http://www.ics.uci.edu/mllearn/MLRepository.html>]. Irvine, CA: University of California, Department of Information and Computer Science, 1998.
- [16] C.E.Shannon and W.Weaver. The mathematical Theory of Communication. Urbana, University of Illinois Press, 1949.
- [17] Cezary Z. Janikow: Fuzzy decision trees: issues and methods. IEEE Transactions on Systems, Man, and Cybernetics, Part B 28(1): 1-14 1998.
- [18] C.Z. Janikow. A genetic algorithm method for optimizing fuzzy decision trees. Information Sciences, 89:275-296, 1996.
- [19] C.Z. Janikow. Exemplar Learning in Fuzzy Decision Trees. Proceedings of FUZZY-IEEE, pp. 1500-1505, 1996.
- [20] C.Olaru, L.Wehenkel. A complete fuzzy decision tree technique, Fuzzy Sets and Systems, vol 138, pp. 221-254, 2003.
- [21] C.Olaru, L.Wehenkel. Contributions to Automatic Learning: Soft Decision Tree Induction. PhD thesis, University of Liege, Belgium, 2003.

- [22] Chengming Qi: A New Partition Criterion for Fuzzy Decision Tree Algorithm. IITA 2007: 43-46, 2007.
- [23] C.Marsala: Arbres de decisions et sous-ensembles flous. Rapport 94/21 LAFORIA-IBP 1994.
- [24] Christophe Marsala: Application of Fuzzy Rule Induction to Data Mining. FQAS 1998: 260-271, 1998.
- [25] C. Marsala. Fuzzy partition inference over a set of numerical values. Technical report, LAFORIA-IBP, University Pierre et Marie Curie, France, October 1995.
- [26] C. Marsala. Fuzzy partitioning using mathematical morphology in a learning scheme. In Proceedings of the 5th International Conference on Fuzzy Systems, FUZZ-IEEEŠ96, pages 1512Ū1517, New Orleans, September 1996.
- [27] C. Marsala. Apprentissage inductif en presence de donnees imprecises: construction et utilisation dŠarbres de decision flous. PhD thesis, Universite Paris 6, 1998.
- [28] C. Marsala, M. Ramdani, M. Toullabi, and D. Zakaria. Recognition of odors: a fuzzy decision tree approach. In Proceedings of Information Processing and Management of Uncertainty in Knowledge-Based Systems, volume 1, pages 532Ū539, Paris, July 6-10 1998.
- [29] D.A.Zighed and R.Rickotomalala. A Method for Non Arborescent Induction Graphs. Technical Report, Laboratory ERIC, University of Lyon 2 , 1996.
- [30] D.A.Zighed, R.Rakotomalala and S.Rabasėda. Discretization Method for Continuous Attributes in Induction Graphs. Proceeding of the 13th European Meetings on Cybernetics and System Research, 1996, pp.997-1002.
- [31] D.A.Zighed,S.Rabasėda,R.Rakotomalala. Discretization Methods in Supervised Learning. Encyclopedia of Computer Science and Technology, vol40,pp35-50,1998.
- [32] D. Dubois and H. Prade. Fuzzy Sets and Systems: Theory and Applications. Academic Press, 1980.

- [33] D. Ettes and J. Van Den Berg. Representation and learning capabilities of additive fuzzy systems. In P. Kopacek and L.J. Rudas, editors, Proceedings of the 1998 IEEE International Conference on Intelligent Engineering Systems, INESS'98, pages 121-126, Vienna, Austria, September 1998.
- [34] D.K.Y. Chiu, B. Cheung and A.K.C. Wong, Information Synthesis Based on Hierarchical Maximum Entropy Discretization, *J. Experimental and Theoretical Artificial Intelligence*, vol. 2, pp. 117-129, 1990.
- [35] D.L. Donoho, C. Grimes, Hessian eigenmaps: New locally linear embedding techniques for high-dimensional data, *Proc. Natl. Acad. Sci.* 100 (2003) 5591-5596, 2003.
- [36] Eric Bauer and Ron Kohavi. An empirical comparison of voting classification algorithms: bagging, boosting, and variants. *Machine Learning*, pages 105-139, 1999.
- [37] Eyke Hullermeier. Fuzzy Methods in Machine Learning and Data mining: Status and Prospects. *Sets and Systems* 156(3), 387-407, 2005.
- [38] Ferenc Peter Pach, Attila Gyenesei, János Abonyi: Compact fuzzy association rule-based classifier. *Expert Syst. Appl.* 34(4): 2406-2416, 2008.
- [39] Fabrice Muhlenbach, Ricco Rakotomalala: Multivariate supervised discretization, a neighborhood graph approach. *ICDM 2002*: 314-321, 2002.
- [40] G.A. Ouzden, A.W. William. Induction of Rules Subject to a Quality Constraint: Probabilistic Inductive Learning, *IEEE Trans. On Knowledge and Data Engineering*, 5, pages 979-984, 1993.
- [41] G.B.Huang, Q.Y.Zhu, C.K.Siew. *Extreme Learning Machine: Theory and Applications*. *Neurocomputing* vol 70, pp 489-501, 2006.
- [42] G. Hinton and S. Roweis. Stochastic neighbor embedding. In *Advances in Neural Information Processing Systems*, volume 15, Cambridge, MA, MIT Press, pages 857-864, 2003.
- [43] G. McLachlan. *Discriminant Analysis and Statistical Pattern Recognition*. New York: Wiley, 1992.

- [44] H.Cramer. *Mathematical Methods of Statistics*. Princeton University Press, Princeton NJ, 1946.
- [45] H. Liu, F. Hussain, C. L. Tan, and M. Dash. Discretization: An enabling technique. *Data Mining and Knowledge Discovery*, 6(4):393-423, 2002.
- [46] Hung Son Nguyen, Sinh Hoa Nguyen: Fast split selection method and its application in decision tree construction from large databases. *Int. J. Hybrid Intell. Syst.* 2(2): 149-160, 2005.
- [47] H. Ichihashi, T. Shirai, K. Nagasaka, and T. Miyoshi (1996) §Neuro fuzzy ID3: A method of inducing fuzzy decision trees with linear programming for maximizing entropy and algebraic methods, *Fuzzy Sets System*, vol. 81,no. 1, pp. 157-167, 1996.
- [48] H.Ishibuchi, T.Yamamoto, T.Nakashima. Fuzzy data mining: Effect of fuzzy discretization. In *The 2001 IEEE International Conference on Data Mining*, 2001.
- [49] Hsu, C. N., Huang, H. J., Wong, T. T., 2000. Why discretization works for naive Bayesian classifiers. In: *Proceedings of the Seventeenth International Conference on Machine Learning*. pp. 309-406.
- [50] H.P. Huang and C.-C. Liang. Strategy-based decision making of a soccer robot system using a real-time self-organizing fuzzy decision tree. *Fuzzy Sets and Systems*, 127:49-64, 2002.
- [51] I. Hayashi, J. Ozawa, and L.C. Jain. Generation of fuzzy decision trees by Fuzzy ID3 with adjusting mechanism of and/or operators. *IEEE*, 1998.
- [52] I.Borg, P.Groenen. *Modern Multidimensional Scaling: Theory and Applications*. Springer-Verlag, New York, 1997.
- [53] I. Jolliffe. *Principal Component Analysis*. Springer-Verlag, New York, 1986.
- [54] I.J. Chiang and J. Y.-J. Hsu. Fuzzy classification trees for data analysis. *Fuzzy Sets and Systems*, 130:87-99, 2002.

- [55] I.Kononenko. Naive Bayesian classifier and continuous attributes. *Informatica* 16, 1, 1-8. (pp. 33, 53, 54, 111), 1992.
- [56] J.A. Abonyi, J.A. Roubos, F. Szeifert. Data-driven generation of compact, accurate, and linguistically-sound fuzzy classifiers based on a decision tree initialization. *International journal of approximate reasoning*, pp. 1-21, Jan. 2003.
- [57] J.B.Tenenbaum, V de Silva, and J.C.Langford. A global geometric framework for non-linear dimensionality reduction. *Science*, 290: 2319-2323, 2000.
- [58] J. Catlett. Megainduction : Machine learning on very large databases z, PhD Thesis, School of Computer Science, University of Technology, Sydney, Australia, 1991.
- [59] J.Dougherty, R.Kohavi, M.Sahami. Supervised and unsupervised discretization of continuous features. In: *Proceedings of the Twelfth International Conference on Machine Learning*. pp. 194-202, 1995.
- [60] Jay Fowdar, Zuhair Bandar, Keeley A. Crockett: Inducing Fuzzy Decision Trees in Non-Deterministic Domains using CHAID. *FLAIRS Conference* 2004.
- [61] J.F. Baldwin, J. Lawry, and T.P. Martin. Mass assignment based induction of decision trees on words. In *Proceedings of Information Processing and Management of Uncertainty in Knowledge-Based Systems*, volume 1, pages 524-531, Paris, July 6-10 1998.
- [62] J.F.Wenjiang, Raymond J. Carroll, Suojin Wang. Estimating misclassification error with small samples via bootstrap cross-validation. *Bioinformatics* 21(9): 1979-1986 (2005).
- [63] G.H. Shah Hamzei and D.J. Mulvaney. On-line learning of fuzzy decision trees for global path planning. *Engineering Applications of Artificial Intelligence*, 12:93-109, 1999.
- [64] J.Mingers. An empirical comparison of pruning methods for decision tree induction. *Machine Learning*, 4(2):227-243, 1989.
- [65] J R Quinlin, *Decision Trees and Decision Making*, *IEEE Transactions on System, Man and Cybernetic*, 20, pages 339-346, 1990.

- [66] J.Quinlan. C4.5:Programs for Machine Learning. M.Kaufmann,SanMateo,CA,1993.
- [67] J. R. Quinlan. Improved use of continuous attributes in C4.5. *Journal of Artificial Intelligence Research*, 4:77-90, 1996.
- [68] J.W.Grzymala-Busse. Three strategies to rule induction from data with numerical attributes. *Lecture Notes in Computer Science* pages 54-62, 2004.
- [69] J. Y. Ching, A. K. C. Wong, and K. C. C. Chan. Class-dependent discretization for inductive learning from continuous and mixed mode data. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 17(7):641-651, 1995.
- [70] K.M.Ho, P.D.Scott. Zeta: A global method for discretization of continuous variables. In *Proceedings of the 3rd International Conference on Knowledge Discovery and Data Mining*, pages 10-18, 1999.
- [71] K.J. Cios and L.M. Sztandera. Continuous ID3 algorithm with fuzzy entropy measures. In *Proceedings of The First IEEE Conference on Fuzzy Systems*, pages 469-476, San Diego, 1992.
- [72] K.Pötzelberger, K.Felsenstein. On the Fisher Information of Discretized Data. *Journal of Statistical Computation and Simulation*, Volume 46 Issue 3 and 4, pages 125-144 1993.
- [73] L. A. Zadeh. Fuzzy sets. *Information and Control*, 8:338-353, 1965.
- [74] L.A.Zadeh, Fuzzy Sets as a bases for a Theory of Possibility, *Fuzzy Sets and Systems*, 1 (1978) 3-28, 1978.
- [75] L.Breiman, J.H.Friedman, R.A.Olshen, C.J.Stone. *Classification and Regression Trees*. Wadsworth International, San Francisco, 1984.
- [76] L.Breiman. Bagging predictors. *Machine Learning* 24 (2): 123-140, 1996.
- [77] Breiman L. Out-of-bag estimation. Technical Report, Department of Statistics, University of California, Berkeley, 1996.
- [78] L. Cayton, Algorithms for Manifold Learning. Technical Report, 2005.

- [79] L.Wehenkel. An Information Quality Based Decision Tree Pruning Method. Proceedings of the 4th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems, IPMU'92(1992).
- [80] Markus Maier, Matthias Hein, Ulrike von Luxburg: Cluster Identification in Nearest-Neighbor Graphs. ALT 2007: 196-210, 2007.
- [81] M.Boulle: A Bayes Optimal Approach for Partitioning the Values of Categorical Attributes. Journal of Machine Learning Research 6: 1431-1452, 2005.
- [82] M.C.Ludl, G.Widmer. Relative unsupervised discretization for association rule mining. In Proceedings of the 4th European Conference on Principles and Practice of Knowledge Discovery in Databases. pp. 86, 95, 2000.
- [83] M.Brand. Charting a manifold. In Proceedings, Neural Information Processing Systems, Volume 15. Mitsubishi Electric Research Lab: MIT Press. TR-2003-13 March 2003, <http://www.merl.com>, Presented at NIPS-15, December 2002.
- [84] M.Belkin, P.Niyogi. Laplacian eigenmaps and spectral techniques for embedding and clustering. In Dietterich, T. G., Becker, S., and Ghahramani, Z. (Eds.), Advances in Neural Information Processing Systems, 14: 585-591, 2001.
- [85] M. Dong and R. Kothari. Look-ahead based fuzzy decision tree induction. IEEE Transactions on Fuzzy Systems, 9(3):461-468, June 2001.
- [86] M. Guetova, S. Hólldobler, and H.-P. Stórr. Incremental fuzzy decision trees. In M. Jarke, J. Koehler, and G. Lakemeyer, editors, Proceedings of the 25th German Conference on Artificial Intelligence (KI2002), pages 67-81, Aachen, Germany, 2002. Springer Verlag.
- [87] M. Fajfer and C.Z. Janikow, Bottom-Up Fuzzy Partitioning in Fuzzy Decision Trees, Proc. 19th Int'l Conf. North Am. Fuzzy Information Processing Soc., pp. 326-330, 2000.
- [88] M.J.Pazzani. An iterative improvement approach for the discretization of numeric attributes in Bayesian classifiers. In Proceedings of the 1st International Conference on Knowledge Discovery and Data Mining (1995), pp. 228-233, 1995.

- [89] M.Ramdani. System d'Induction Formelle a base de Connaissances Impresises. These de l'universite P et M Curie, rapport 94/1, LAFORIA IBP 1994.
- [90] M.R.Chmielewski, Grzymala-Busse, J. W. Global discretization of continuous attributes as preprocessing for machine learning, in Third International Workshop on Rough Sets and Soft Computing, pp. 294-301, 1994.
- [91] Mooney, C Z Duval, R D. Bootstrapping. A Nonparametric Approach to Statistical Inference. Sage University Paper series on Quantitative Applications in the Social Sciences, 07-095. Newbury Park, CA: Sage, 1993.
- [92] M. Umamo, H. Okamoto, I. Hatoh, H. Tamura, F. Kawachi, S. Umedzu, and J. Kinoshita. Fuzzy decision trees by fuzzy ID3 algorithm and its application to diagnosis systems. In Proceedings of the 3rd IEEE Conference on Fuzzy Systems, volume 3, pages 2113-2118, Orlando, June 1994.
- [93] P. Berka and I. Bruha. Discretization and grouping: Preprocessing steps for data mining. In Principles of Data Mining and Knowledge Discovery, pages 239-245, 1998.
- [94] R.Bertelsen, T.R.Martinez. Extending ID3 through discretization of continuous inputs. In Proceedings of the 7th Florida Artificial Intelligence Research Symposium(pp. 122-125). Florida AI Research Society, 1994.
- [95] P.Domingos, M.Pazzani. On the optimality of the simple Bayesian classifier under zero-one loss. Machine Learning 29, 103-130, 1997.
- [96] Pierre Geurts and Louis Wehenkel, Investigation and reduction of discretization variance in decision tree induction, Proc. of the 11th European Conference on Machine Learning (ECML-2000), pages 162-170, Springer Verlag (2000).
- [97] P. Geurts. Contributions to Decision Tree Induction: Bias/Variance Tradeoff and Time Series Classification. PhD thesis, University of Liege, Belgium, Mai 2002.
- [98] P.Perner, S.Trautzsh. Multi-interval discretization methods for decision tree learning. In Proceedings of Advances in Pattern Recognition, Joint IAPR International Workshops SSPRS98 and SPRS98, pp. 475-482, 1998.

- [99] R.Kohavi, H.Sahami. Error-Based and Entropy-Based Discretization of Continuous Features. In Proceedings of the 2nd International Conference on Knowledge Discovery and Data Mining, AAAI Press/MIT Press, Menlo Park, CA, 114-119, 1996.
- [100] R.Rakotomalala, Zighed D.A., Feschet F., Empirical evaluation of rule characterization in rule induction process. In Proceedings of the Fourteenth European Meeting on Cybernetics and Systems Research, Vienna, April 1998, pp.779-804, 1998.
- [101] Robert C. Holte. Very Simple Classification Rules Perform Well on Most Commonly Used Datasets. *Machine Learning*, vol. 11, pp. 63-91, 1993.
- [102] Robert E. Schapire. The boosting approach to machine learning: An overview. In D. D. Denison, M. H. Hansen, C. Holmes, B. Mallick, B. Yu, editors, *Nonlinear Estimation and Classification*. Springer, 2003.
- [103] R.Kerber. Chimerge: Discretization for numeric attributes. In: *National Conference on Artificial Intelligence*. AAAI Press, pp. 123-128, 1992.
- [104] R. Weber. Fuzzy ID3: A class of methods for automatic knowledge acquisition. In *Proceedings of the 2nd International Conference on Fuzzy Logic and Neural Networks*, pages 265-268, Iizuka, Japan, July 17-22 1992. [Weh92a] L. Wehenkel. An information quality based decision tree
- [105] S.D.Bay. Multivariate discretization of continuous variables for set mining. In: *Proceedings of the Sixth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*. pp. 315-319, 2000.
- [106] S.K.Murthy, Kasif,S., Salzberg,S.: A System for Induction of Oblique Decision Trees. *Journal of AI Research*, 1994.
- [107] Sushmita Mitra, Senior Member, IEEE, Kishori M. Konwar, and Sankar K. Pal. Fuzzy Decision Tree, Linguistic Rules and Fuzzy Knowledge-Based Network: Generation and Evaluation. *IEEE Transactions on Systems, Man and Cybernetics*, vol. 32, no. 4, november 2002.

- [108] S.Kotsiantis, D.Kanellopoulos. Discretization Techniques: A recent survey. GESTS International Transactions on Computer Science and Engineering, Vol.32 (1), 2006, pp. 47-58.
- [109] S.T.Roweis, L.K.Saul. Nonlinear dimensionality reduction by locally linear embedding. Science 290, 2323-2326, 2000.
- [110] T. Elomaa and J. Rousu. General and efficient multisplitting of numerical attributes. Machine Learning, 36(3):201-244, 1999.
- [111] T.Elomaa, Rousu, J., Fast Minimum Training Error Discretization. XIX International Conference on Machine Learning (ICML02). Sydney Australia, 131-138, 2002.
- [112] T.Elomaa, Rousu, J., Efficient multi-splitting revisited: Optima-preserving elimination of partition candidates. Data Mining and Knowledge Discovery 97-126, 2004.
- [113] T.Fulton, S.Kasif, S.Salzberg: Efficient Algorithms for Finding Multi-way Splits for Decision Trees. ICML 1995: 244-251, 1995.
- [114] T. Kohonen, Self-organization Maps, 3rd ed. Berlin, Germany: Springer-Verlag, 1984.
- [115] T. Tsuchiya, T. Maeda, Y. Matsubara, and M. Nagamachi. A fuzzy rule induction method using genetic algorithm. International Journal of Industrial Ergonomics, 18:135-145, 1996.
- [116] T.Van de Merckt. Decision Trees in Numerical Attribute Spaces. Proceedings of the 13th International Joint Conference on Artificial Intelligence, Morgan Kaufmann, San Mateo, CA, 1993, pp 1013-1021.
- [117] Tao Wang, Zhoujun Li, Yuejin Yan, Huowang Chen: A Survey of Fuzzy Decision Tree Classifier Methodology. ICFIE 2007: 959-968, 2007.
- [118] U.Fayyad, Piatetsky-Shapiro, Smyth. From Data Mining to Knowledge Discovery: An Overview. Advances in Knowledge Discovery and Data Mining, AAAI Press / The MIT Press, Menlo Park, CA, 1996, pp.1-34.

- [119] U.M.Fayyad and K.B.Irani. On the Handling of Continuous-Valued Attributes in Decision Tree Generation. *Machine Learning*, 8, 87-102 1992.
- [120] U.Fayyad, G. Piatetsky-Shapiro, and P. Smyth. From data mining to knowledge discovery: An overview. In *Advances in Knowledge Discovery and Data Mining*. MIT Press, 1996.
- [121] U.M.Fayyad, K.Irani. Multi-interval Discretization of Continuous-Valued Attributes for Classification Learning. *Proceedings of the 13th International Joint Conference on Artificial Intelligence*, Morgan Kaufmann, San Mateo, CA, 1993, pp1022-1027, 1993.
- [122] W.D.Fischer. On grouping for maximum of homogeneity. *Journal of the American Statistical Assoc.* 53. 789-798, 1958.
- [123] W.Kwedlo, M.Kretowski. An evolutionary algorithm using multivariate discretization for decision rule induction. In *Proceedings of the European Conference on Principles of Data Mining and Knowledge Discovery*, pp. 392-397, 1999.
- [124] W.Maass. Efficient agnostic PAC-learning with simple hypotheses. *Seventh annual ACM conference on computational learning theory*. New York: ACM Press; pages. 67-75, 1994.
- [125] W. Pedrycz and A. Sosnowski. Designing decision trees with the use of fuzzy granulation. *IEEE Transactions Systems, Man and Cybernetics*, vol. 30, pp.151-159, Mar 2000.
- [126] W. Xizhao and J. Hong. On the handling of fuzziness for continuous valued attributes in decision tree generation. *Fuzzy Sets System*, vol. 99, pp. 283-290, 1998.
- [127] X. Boyen and L. Wehenkel. Automatic induction of continuous decision trees. In *Proceedings of IPMU'96, Information Processing and Management of Uncertainty in Knowledge-Based Systems*, volume 1, pages 419-424, Granada, Spain, July 1-5 1996.
- [128] X. Boyen and L. Wehenkel. Automatic induction of fuzzy decision trees and its applications to power system security assessment. *Fuzzy Sets and Systems*, 1(102):3-19, February 1999.

- [129] X. Boyen and L. Wehenkel. Automatic induction of continuous decision trees. In Proceedings of IPMUŠ96, Information Processing and Management of Uncertainty in Knowledge-Based Systems, volume 1, pages 419Ű424, Granada, Spain, July 1-5 1996.
- [130] Xin Geng, De-Chuan Zhan, Zhi-Hua Zhou: Supervised nonlinear dimensionality reduction for visualization and classification. IEEE Transactions on Systems, Man, and Cybernetics, Part B 35(6): 1098-1107, 2005.
- [131] X H Wang, J R Hong, On the Handling of Fuzziness for Continuous-valued Attributes in Decision Tree Generation, Fuzzy Sets and Systems, 99, pages 283-290, 1998.
- [132] X.M. Huo, X.L. Ni, and A.K. Smith, ŠA Survey of Manifold-based Learning MethodsŰ, In Mining of Enterprise Data, Eds. T.W. Liao and E. Triantaphyllou. World Scientific, 2007.
- [133] Xiaomeng Wang, Detlef D. Nauck, Martin Spott, Rudolf Kruse: Intelligent data analysis with fuzzy decision trees. Soft Comput. 11(5): 439-457 2007.
- [134] X.Wang and C. Borgelt. Information Measures in Fuzzy Decision Trees, Proc. 13th IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'04, Budapest, Hungary), vol. 1,pp. 85-90, 2004.
- [135] Y.Lechevallier. Recherche d'une partition optimale sous contrainte d'ordre totale. Technical Report 1247, INRIA, June 1990.
- [136] Y.Freund and R.E. Schapire. A decision-theoretic generalization of on-line learning and an application to boosting. Journal of Computer and System Sciences, 55(1):119–139, 1997.
- [137] Yoon-Seok Choi, Byung Ro Moon, Sang Yong Seo: Genetic fuzzy discretization with adaptive intervals for classification problems. GECCO 2005: pages 2037-2043, 2005.
- [138] Y. Peng and P. Flach. Soft Discretization to Enhance the Continuous Decision Tree Induction. Integrating Aspects of Data Mining, Decision Support and Meta-Learning, Christophe Giraud-Carrier, Nada Lavrac and Steve Moyle, editors, pages 109–118, ECML/PKDD'01 workshop notes, September 2001.

- [139] Y. S. Abu-Mostafa. Machines that learn from hints. *Scientific American*, 272(4):64–69, 1995.
- [140] Y. Yang and G. I. Webb. Discretization for naive-bayes learning: managing discretization bias and variance. Technical Report 2003/131, School of Computer Science and Software Engineering, Monash University, 2003.
- [141] Y. Yuan and M. J. Shaw. Induction of fuzzy decision trees. *Fuzzy Sets System*, vol. 69, pp. 125–139, 2005.
- [142] Z. Michalewicz. *Genetic Algorithm + Data Structures = Evolutionary Programs*, Third Edition. Springer, 1996.
- [143] X. Z. Wang, B. Chen, G. Qian, and F. Ye. On the optimization of fuzzy decision trees. *Fuzzy Sets Syst.*, vol. 112, no. 2, pp. 117–125, 2000.
- [144] Z. Zhang and H. Zha. Principal manifolds and nonlinear dimensionality reduction via tangent space alignment. *SIAM Journal on Scientific Computing*, 26(1), 313–338, 2005.
- [145] Z. Zheng, G. I. Webb. Lazy learning of Bayesian rules. *Machine Learning* 41, 1, 53–84. (p. 47), 2000.