tems, 39:305–328, 2010.

[19] M. Štěpnička, A. Dvořák, V. Pavliska, and L. Vavříčková. Linguistic approach to time series modeling with the help of F-transform. *Fuzzy Sets and Systems*, to appear.

[20] P. Cortez, M. Rio, M. Rocha, and P. Sousa. Internet Traffic Forecasting using Neural Networks. In *Proceedings of the 2006 International Joint Conference on Neural Networks (IJCNN 2006)*, pages 4942–4949, Vancouver, Canada, July 2006. IEEE.

[21] R. J. Hyndman. Time series data library. *http://robjhyndman.com/TSDL/*.

[22] J.S. Armstrong and F. Collopy. Error measures for generalizing about forecasting methods: Empirical comparisons. *International Journal of Forecasting*, 8:69–80, 1992.

[23] R.J. Hyndman and A.B. Koehler. Another look at measures of forecast accuracy. *International Journal of Forecasting*, 22(4):679–688, 2006.

[24] D. B. Fogel. *Evolutionary Computation: Toward a New Philosophy of Machine Intelligence*. IEEE Press Series on Computational Intelligence. Wiley-IEEE Press, third edition, December 2005.

[25] Andreas Zell, Günter Mamier, R. Hübner, N. Schmalzl, Tilman Sommer, and Michael Vogt. Snns: An efficient simulator for neural nets. In *MASCOTS '93: Proceedings of the International Workshop on Modeling, Analysis, and Simulation On Computer and Telecommunication Systems*, pages 343–346, San Diego, CA, USA, 1993. Society for Computer Simulation International.

[26] A. Smola and B. Schölkopf. A tutorial on support vector regression. *Statistics and Computing*, 14:199–222, 2004.

[27] W. Wang, Z. Xu, W. Lu, and X. Zhang. Determination of the spread parameter in the Gaussian kernel for classification and regression. *Neurocomputing*, 55(3):643–663, 2003.

[28] V. Cherkassy and Y. Ma. Practical Selection of SVM Parameters and Noise Estimation for SVM Regression. *Neural Networks*, 17(1):113–126, 2004.

[29] R. Kewley, M. Embrechts, and C. Breneman. Data Strip Mining for the Virtual Design of Pharmaceuticals with Neural Networks. *IEEE Trans Neural Networks*, 11(3):668–679, May 2000.

[30] P. Cortez. Data Mining with Neural Networks and Support Vector Machines using the R/rminer Tool. In P. Perner, editor, *Advances in Data Mining – Applications and Theoretical Aspects, 10th Industrial Conference on Data Mining*, pages 572–583, Berlin, Germany, July 2010. LNAI 6171, Springer.

[31] I. Perfilieva. Fuzzy transforms: theory and applications. *Fuzzy Sets and Systems*, 157:993–1023, 2006.

[32] V. Novák. Linguistically oriented fuzzy logic controller and its design. *Internat. J. Approx. Reason.*, 12(3–4):263–277, 1995.

[33] I. Perfilieva and R. Valášek. Fuzzy transforms in removing noise. In B. Reusch, editor, *Computational Intelligence, Theory and Applications*, Advances in Soft Computing, pages 221–230, Berlin, 2005. Springer.

[34] M. Štěpnička and O. Polakovič. A neural network approach to the fuzzy transform. *Fuzzy sets and Systems*, 160:1037–1047, 2009.

[35] R. Bělohlávek and V. Novák. Learning rule base of the linguistic expert systems. *Soft Computing*, 7:79–88, 2002.

[36] A. Dvořák, H. Habiballa, V. Novák, and V. Pavliska. The software package LFLC 2000 - its specificity, recent and perspective applications. *Computers in Industry*, 51:269–280, 2003.

[37] V. Novák. A comprehensive theory of trichotomous evaluative linguistic expressions. *Fuzzy Sets and Systems*, 159(22):2939ï¿½–2969, 2008.

[38] V. Novák. Perception-based logical deduction. In B. Reusch, editor, *Computational Intelligence, Theory and Applications*, Advances in Soft Computing, pages 237–250, Berlin, 2005. Springer.

[39] J. Casillas, O. Cordón, F. Herrera Triguero, and L. Magdalena, editors. *Interpretability Issues in Fuzzy Modeling (Studies in Fuzziness and Soft Computing Vol. 128)*. Springer, Heidelberg, 2003.

[40] D. Dubois and H. Prade. What are fuzzy rules and how to use them. *Fuzzy Sets and Systems*, 84:169–185, 1996.

[41] V. Novák and S. Lehmke. Logical structure of fuzzy IF-THEN rules. *Fuzzy Sets and Systems*, 157(15):2003–2029, 2006.

[42] U. Bodenhofer and P. Bauer. Interpretability of linguistic variables: a formal account. *Kybernetika*, 2:227–248, 2005.

[43] F. M. Pouzols, A. Lendasse, and A. Barriga Barros. Autoregressive time series prediction by means of fuzzy inference systems using nonparametric residual variance estimation. *Fuzzy Sets and Systems*, 161:471–497, 2010.

[44] C. Lemke and B. Gabrys. Meta-learning for time series forecasting in the nn gc1 competition. In *Proc. 16th IEEE Int. Conf. on Fuzzy Systems*, page in press, Barcelona, 2010.

[45] M. Constantini and C. Pappalardo. A hierarchical procedure for the combination of forecasts. *International Journal of Forecasting*, 26:725–743, 2010.

[46] D. K. Barrow, S. Crone, and N. Kourentzes. An evaluation of neural network ensembles and model selection for time series prediction. In *Proc. 16th IEEE Int. Conf. on Neural Networks*, page in press, Barcelona, 2010.