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# Identification of the Head-and-Shoulders Technical Analysis Pattern with Neural Networks

Conference paper

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images, in a manner similar to the one used in hand-written character and digit recognition. Our approach is tested on new simulated price series using a rolling window of variable size. The results are very promising with an overall correct classification rate of 97.1%.

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#### References

1. Bernd, L.: Are Technical Trading Rules Profitable? Evidence for head-and-shoulder rules. Applied Economics 35, 33–40 (2003)

**Article Google Scholar** 

2. Edwards, R.D., Magee, J.: Technical Analysis of Stock Trends. 7th edn. (1997)

**Google Scholar** 

3. Achelis, S.B.: Technical Analysis From A to Z (1995)

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quantization. Pattern Recognition Letters 22, 625-629 (2001)

Article MATH Google Scholar

8. Liu, C.-L., Nakagawa, M.: Evaluation of prototype learning algorithms for nearest-neighbor classifier in application to handwritten character recognition. Pattern Recognition 34, 601–615 (2001)

Article MATH Google Scholar

9. Liu, C.-L., Sako, H., Fujisawa, H.: Performance evaluation of pattern classifiers for handwritten character recognition. International Journal on Document Analysis and Recognition 4, 191–204 (2002)

Article Google Scholar

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14. Cho, S.-B.: Ensemble of structure-adaptive self-organizing maps for high performance classification. Information Sciences 123, 103–114 (1999)

**Article Google Scholar** 

15. Hull, J.C.: Options, Futures, and Other Derivatives. 6th edn. (2006)

**Google Scholar** 

16. Fama, E.: 'Efficient Capital Markets: A Review of Theory and Empirical Work'. Journal of Finance 25(2), 383–417 (1970)

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17 Fama, E.: 'Efficient Capital Markets II', Journal of Finance 46(5), 1575-1617

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