

List of Publications

Horst Bunke

Reviewed Journal Papers

1. Frinken, V., Fischer, A., Manmatha, R., Bunke, H.: A novel word spotting method based on recurrent neural networks, *IEEE Trans. PAMI* 34(2), 211 – 224, 2012.
2. A. Fischer, A. Keller, V. Frinken, H. Bunke. Lexicon-free handwritten word spotting using character HMMs, *Pattern Recognition Letters* 33, 934 – 942, 2012.
3. H. Bunke, K., Riesen. Towards the unification of structural and statistical pattern recognition, *Pattern Recognition Letters* 33, 811-825, 2012.
4. M. Ferrer, D. Karatzas, E. Valveny, I. Bardaji, and H. Bunke. A recursive embedding approach to median graph computation. *Computer Vision and Image Understanding*, 115(7):919–928, 2011.
5. H. Bunke and K. Riesen. Improving vector space embedding of graphs through feature selection algorithms. *Pattern Recognition*, 44(9):1928–1940, 2011.
6. K. Riesen and H. Bunke. Recent advances in graph-based pattern recognition with applications in document analysis. *Pattern Recognition*, 44(5):1057–1067, 2011.
7. M. Liwicki, A. Schlapbach, and H. Bunke. Automatic gender detection using online and offline information. *Pattern Analysis and Applications*, 14(1):87–92, 2011.
8. M. Liwicki, H. Bunke, J. A. Pittman, and S. Knerr. Combining diverse systems for handwritten text line recognition. *Machine Vision and Applications*, 22(1):39–51, 2011.
9. M. Ferrer, E. Valveny, F. Serratos, K. Riesen, and H. Bunke. Generalized median graph computation by means of graph embedding in vector spaces. *Pattern Recognition*, 43(4):1642–1655, 2010.
10. Fornes, J. Lladós, G. Sanchez, X. Otazu, and H. Bunke. A combination of features for symbol-independent writer identification in old music scores. *Int. Journal on Document Analysis and Recognition*, 13(4):243–259, 2010.
11. K. Riesen and H. Bunke. Graph classification by means of Lipschitz embedding. *IEEE Trans. SMC*, 39(6):1472–1483, 2009.
12. M. Neuhaus, K. Riesen, and H. Bunke. Novel kernels for error-tolerant graph classification. *Spatial Computing*, 22(5):425–441, 2009.
13. M. Liwicki and H. Bunke. Feature selection for HMM and BLSTM based handwriting recognition of whiteboard notes. *Int. Journal of Pattern Recognition and Art. Intelligence*, 23(5):907–923, 2009.
14. M. Liwicki and H. Bunke. Combining diverse on-line and off-line systems for handwritten text line recognition. *Pattern Recognition*, 42(12):3254–3263, 2009.
15. K. Riesen and H. Bunke. Graph classification based on vector space embedding. *Int. Journal of Pattern Recognition and Art. Intelligence*, 23(6):1053–1081, 2009.
16. Graves, M. Liwicki, S. Fernandez, R. Bertolami, H. Bunke, and J. Schmidhuber. A novel connectionist system for unconstrained handwriting recognition. *IEEE Trans. PAMI*, 31(5):855–869, 2009.
17. K. Riesen and H. Bunke. Reducing the dimensionality of dissimilarity space embedding graph kernels. *Engineering Applications of Artificial Intelligence*, 22(1):48–56, 2009.
18. K. Riesen and H. Bunke. Approximate graph edit distance computation by means of bipartite graph matching. *Image and Vision Computing*, 27(7):950–959, 2009.
19. R. Bertolami and H. Bunke. Integration of n-gram language models in multiple classifier systems for offline handwritten text line recognition. *Int. Journal of Pattern Recognition and Art. Intelligence*, 22(7):1301–1321, 2008.
20. R. Bertolami and H. Bunke. Hidden Markov model based ensemble methods for offline handwritten text line recognition. *Pattern Recognition*, 41(11):3452–3460, 2008.
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- data. *Pattern Recognition*, 41(7):2381–2397, 2008.
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 39. T. Varga and H. Bunke. Off-line handwritten word recognition using synthetic training data produced by means of a geometrical distortion model. *Int. Journal of Pattern Recognition and Art. Intelligence*, 18(7):1285–1302, 2004.
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49. S. Günter and H. Bunke. Validation indices for graph clustering. *Pattern Recognition Letters*, 24(8):1107–1113, 2003.
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Books and Special Issues of Journals

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