

List of Publications

Horst Bunke
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Reviewed Journal Papers

1. Riesen, K., Bunke, H.: Estimating graph edit distance using lower and upper bounds of bipartite approximations, *Int. Journal of Pattern Recognition and Art. Intelligence*, published online, February 2015, DOI: 10.1142/S0218001415500111
2. Riesen, K., Bunke, H.: Improving bipartite graph edit distance approximation using various search strategies, *Pattern Recognition* 48, 2015, 1345 - 1359
3. Dahm, N., Bunke, H., Caelli, T., Y. Gao: Efficient subgraph matching using topological node feature constraints, *Pattern Recognition* 48, 2015, 317 - 330
4. Fischer, A., Suen, C.Y., Frinken, V., Riesen, K., Bunke, H.: Approximation of graph edit distance based on Hausdorff matching, *Pattern Recognition* 48, 2015, 331 - 343
5. Frinken, V., Fischer, A., Baumgärtner, M., Bunke, H.: Keyword spotting for self-training of BLSTM NN based handwriting recognition systems, *Pattern Recognition* 47(3), 2014, 1073 - 1082
6. F. Zamora-Martinez, F., Frinken, V. Espana-Boquera, S., Castro-Bleda, M.J. Fischer, A., Bunke, H.: Neural network language models for off-line handwriting recognition, *Pattern Recognition* 47(4), 2014, 1642 - 1652
7. Richiardi, J., Achard, S., Bunke, H., Van De Ville, D.: Machine learning with brain graphs: predictive modeling approaches for functional imaging in systems neuroscience, *IEEE Signal Processing Magazine* 30(3), 2013, Article 6494687, 58-70
8. Gibert, J., Valveny, E., Bunke, H.: Embedding of graphs with discrete attributes via label frequencies, *Int. Journal of Pattern Recognition and Art. Intelligence* 27(3), 2013, DOI: 10.1142/S0218001413600021
9. Zhang, H., Wang, D.-H., Liu, Ch.-L., Bunke, H.: Keyword spotting from online Chinese handwritten documents using one-versus-all character classification model, *Int. Journal of Pattern Recognition and Art. Intelligence* 27(3), 2013, DOI: 10.1142/S0218001413530017
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11. Fankhauser, S., Riesen, K., Bunke, H., Dickinson. P.: Suboptimal graph isomorphism using bipartite matching, *Int. Journal of Pattern Recognition and Art. Intelligence* 26(6), 2012, 1250013-1 - 1250013-26
12. Gibert, J., Valveny, E., Bunke, H.: Graph embedding in vector spaces by nodes attribute statistics, *Pattern Recognition* 45(9), 3072-3083, 2012

13. Gibert, J., Valveny, E., Bunke, H.: Feature selection on node statistics based embedding of graphs, *Pattern Recognition Letters* 33(15), 1980 – 1990, 2012
14. Jiang, X., Lambers, M., Bunke, H.: Structural performance evaluation of curvilinear structure detection algorithms with application to retinal vessel segmentation, *Pattern Recognition Letters* 33(15), 2048 – 2056, 2012
15. V. Frinken, A. Fischer, R. Manmatha, and H. Bunke. A novel word spotting method based on recurrent neural networks, *IEEE Trans. PAMI* 34(2), 211 – 224, 2012.
16. Fischer, A. Keller, V. Frinken, and H. Bunke. Lexicon-free handwritten word spotting using character HMMs, *Pattern Recognition Letters* 33, 934 – 942, 2012.
17. H. Bunke and K. Riesen. Towards the unification of structural and statistical pattern recognition, *Pattern Recognition Letters* 33, 811-825, 2012.
18. M. Ferrer, D. Karatzas, E. Valveny, I. Bardaji, and H. Bunke. A generic framework for median graph computation based on a recursive embedding approach. *Computer Vision and Image Understanding*, 115(7):919–928, 2011.
19. K. Riesen and H. Bunke. Improving vector space embedding of graphs through feature selection algorithms. *Pattern Recognition*, 44(9):1928–1940, 2011.
20. H. Bunke and K. Riesen. Recent advances in graph-based pattern recognition with applications in document analysis. *Pattern Recognition*, 44(5):1057–1067, 2011.
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26. M. Neuhaus, K. Riesen, and H. Bunke. Novel kernels for error-tolerant graph classification. *Spatial Vision*, 22(5):425–441, 2009.
27. 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.
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 37. M. Neuhaus and H. Bunke. Automatic learning of cost functions for graph edit distance. *Information Sciences*, 177(1):239–247, 2007.
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Books and Special Issues of Journals

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