

List of Publications

Horst Bunke

(2010)

Reviewed Journal Papers

1. M. Liwicki, A. Schlapbach, and H. Bunke. Automatic gender detection using online and offline information. *Pattern Analysis and Applications*, 2010. (accepted for publication).
2. M. Liwicki, H. Bunke, J. A. Pittman, and S. Knerr. Combining diverse systems for handwritten text line recognition. *Machine Vision and Applications*, 1, 2010. (accepted for publication).
3. 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.
4. K. Riesen and H. Bunke. Graph classification by means of Lipschitz embedding. *IEEE Trans. SMC*, 39(6):1472–1483, 2009.
5. M. Neuhaus, K. Riesen, and H. Bunke. Novel kernels for error-tolerant graph classification. *Spatial Computing*, 22(5):425–441, 2009.
6. 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.
7. 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.
8. K. Riesen and H. Bunke. Graph classification by means of Lipschitz embedding. *IEEE Trans. SMC*, 39(6):1472–1483, 2009.
9. A. 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.
10. K. Riesen and H. Bunke. Reducing the dimensionality of dissimilarity space embedding graph kernels. *Engineering Applications of Artificial Intelligence*, 22(1):48–56, 2009.
11. 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.
12. 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.
13. R. Bertolami and H. Bunke. Hidden Markov model based ensemble methods for offline handwritten text line recognition. *Pattern Recognition*, 41(11):3452–3460, 2008.
14. A. Schlapbach, M. Liwicki, and H. Bunke. A writer identification system for on-line whiteboard data. *Pattern Recognition*, 41(7):2381–2397, 2008.

15. C. Irniger and H. Bunke. Decision trees for filtering large databases of graphs. *Int. Journal of Intelligent Systems Technologies*, 3:166–187, 2007.
16. M. Neuhaus and H. Bunke. Automatic learning of cost functions for graph edit distance. *Information Sciences*, 177(1):239–247, 2007.
17. M. Liwicki and H. Bunke. Handwriting recognition of whiteboard notes – studying the influence of training set size and type. *Int. Journal of Pattern Recognition and Art. Intelligence*, 21(1):83–98, 2007.
18. A. Schlapbach and H. Bunke. A writer identification and verification system using HMM based recognizers. *Pattern Analysis and Applications*, 10(1):33–43, 2007.
19. R. Bertolami, M. Zimmermann, and H. Bunke. Rejection strategies for offline handwritten text line recognition. *Pattern Recognition Letters*, 27(16):2005–2012, 2006.
20. Z. Reynolds, H. Bunke, M. Last, and A. Kandel. Comparing representative selection strategies for dissimilarity representations. *Int. Journal of Intelligent Systems*, 21(10):1093–1109, 2006.
21. M. Neuhaus and H. Bunke. Edit distance based kernel functions for structural pattern classification. *Pattern Recognition*, 39:1852–1863, 2006.
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23. Z. Ding, H. Bunke, O. Kipersztok, M. Schneider, and A. Kandel. Fuzzy timed Petri net – analysis and implementation. *Mathematical and Computer Modelling*, 43:385–400, 2006.
24. H. Bunke, P. Dickinson, C. Irniger, and M. Kraetzel. Recovery of missing information in graph sequences by means of reference pattern matching and decision tree learning. *Pattern Recognition*, 39:573–586, 2006.
25. M. Zimmermann, J.-C. Chappelier, and H. Bunke. Offline grammar-based recognition of handwritten sentences. *IEEE Trans. PAMI*, 18(5):818–821, 2006.
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27. M. Neuhaus and H. Bunke. Self-organizing maps for learning the edit costs in graph matching. *IEEE Trans. SMC*, 35(3):503–514, 2005.
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29. P. Dickinson, H. Bunke, A. Dadej, and M. Kraetzel. Matching graphs with unique node labels. *Pattern Analysis and Applications*, 7(3):243–254, 2004.
30. S. Dick, A. Meeks, M. Last, H. Bunke, and A. Kandel. Data mining in software metrics databases. *Fuzzy Sets and Systems*, 145:81–110, 2004.
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39. W. Rodriguez, M. Last, A. Kandel, and H. Bunke. Three-dimensional curve similarity using string matching. *Robotics and Autonomous Systems*, 49(3-4):165–172, 2004.
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41. X. Jiang, K. Abegglen, H. Bunke, and J. Csirik. Dynamic computation of generalised median strings. *Pattern Analysis and Applications*, 6:185–193, 2003.
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Books and Special Issues of Journals

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4. H. Bunke, A. Kandel, and M. Last, editors. *Applied Pattern Recognition*, volume 91. Springer, 2008.
5. M. Liwicki and H. Bunke. *Recognition of Whiteboard Notes – Online, Offline and Combination*. World Scientific, 2008.
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