

List of Publications

Horst Bunke

(2008)

Reviewed Journal Papers

1. R. Bertolami and H. Bunke. Hidden Markov model based ensemble methods for offline handwritten text line recognition. *Pattern Recognition*, 41(11):3452–3460, November 2008.
2. A. Schlapbach, M. Liwicki, and H. Bunke. A writer identification system for on-line whiteboard data. *Pattern Recognition*, 41(7):2381–2397, April 2008.
3. C. Irniger and H. Bunke. Decision trees for filtering large databases of graphs. *Int. Journal of Intelligent Systems Technologies*, 3:166–187, 2007.
4. M. Neuhaus and H. Bunke. Automatic learning of cost functions for graph edit distance. *Information Sciences*, 177(1):239–247, 2007.
5. 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.
6. A. Schlapbach and H. Bunke. A writer identification and verification system using HMM based recognizers. *Pattern Analysis and Applications*, 10(1):33–43, 2007.
7. R. Bertolami, M. Zimmermann, and H. Bunke. Rejection strategies for offline handwritten text line recognition. *Pattern Recognition Letters*, 27(16):2005–2012, 2006.
8. 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.
9. M. Neuhaus and H. Bunke. Edit distance based kernel functions for structural pattern classification. *Pattern Recognition*, 39:1852–1863, 2006.
10. X. Jiang, C. Marti, Ch. Irniger, and H. Bunke. Distance measures for image segmentation evaluation. *EURASIP Journal on Applied Signal Processing*, 2006:1–10, 2006.
11. 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.
12. H. Bunke, P. Dickinson, C. Irniger, and M. Kraetzl. Recovery of missing information in graph sequences by means of reference pattern matching and decision tree learning. *Pattern Recognition*, 39:573–586, 2006.
13. M. Zimmermann, J.-C. Chappelier, and H. Bunke. Offline grammar-based recognition of handwritten sentences. *IEEE Trans. Pattern Analysis and Machine Intelligence*, 18(5):818–821, 2006.
14. Z. Ding, H. Bunke, M. Schneider, and A. Kandel. Fuzzy timed Petri net – definitions, properties and applications. *Mathematical and Computer Modelling*, 41:345–360, 2005.

15. M. Neuhaus and H. Bunke. Self-organizing maps for learning the edit costs in graph matching. *IEEE Trans. Systems, Man, and Cybernetics*, 35(3):503–514, 2005.
16. S. Günter and H. Bunke. Off-line cursive handwriting recognition using multiple classifier systems—on the influence of vocabulary, ensemble, and training set size. *Optics and Lasers in Engineering*, 43:437–454, 2005.
17. P. Dickinson, H. Bunke, A. Dadej, and M. Kraetzl. Matching graphs with unique node labels. *Pattern Analysis and Applications*, 7(3):243–254, 2004.
18. 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.
19. S. Günter and H. Bunke. Multiple classifier systems in off-line handwritten word recognition – on the influence of training set and vocabulary size. *Int. Journal of Pattern Recognition and Art. Intelligence*, 18(7):1303–1320, 2004.
20. 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.
21. P.J. Dickinson, M. Kraetzl, H. Bunke, M. Neuhaus, and A. Dadej. Similarity measures for hierarchical representations of graphs with unique node labels. *Int. Journal of Pattern Recognition and Art. Intelligence*, 18:425–442, 2004.
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23. S. Günter and H. Bunke. Optimization of weights in a multiple classifier handwritten word recognition system using a genetic algorithm. *Electronic Letters of Computer Visison and Image Analysis*, 3(1):25–44, 2004.
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27. 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.
28. A. Vinciarelli, S. Bengio, and H. Bunke. Offline recognition of unconstrained handwritten texts using HMMs and statistical language models. *IEEE Trans. PAMI*, 26:709–720, 2004.
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37. S. Fischer and H. Bunke. Automatic identification of diatoms using visual human-interpretable features. *Journal of Image and Graphics*, 2(1):67–88, 2002.
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51. H. Bunke and A. Kandel. Mean and maximum common subgraph of two graphs. *Pattern Recognition Letters*, 21:163–168, 2000.

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Books and Special Issues of Journals

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Reviewed Papers in Conference Proceedings and Edited Books

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2. K. Riesen and H. Bunke. Kernel k -means clustering applied to vector space embeddings of graphs. In L. Prevost, S. Marinai, and F. Schwenker, editors, *Proc. 3rd IAPR Workshop Artificial Neural Networks in Pattern Recognition*, LNAI 5064, pages 24–35. Springer, July 2008.
3. H. Bunke and K. Riesen. Recent developments in graph classification and clustering using graph embedding kernels. In A. Juan-Ciscar and G. Sanchez-Albaladejo, editors, *Proc. 8th Int. Workshop Pattern Recognition in Information Systems*, pages 3–13, June 2008.
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5. R. Bertolami and H. Bunke. Ensemble methods to improve the performance of an English handwritten text line recognizer. In D. Doerman and S. Jaeger, editors, *Arabic and Chinese Handwriting Recognition*, LNCS 4768, pages 265–277. Springer, March 2008.
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