Complete Publication List of Kaspar Riesen (29.10.2026)

1. Publications in International Peer-Reviewed Scientific Journals

1. Kalvin Dobler, Kaspar Riesen:
   A Unified Modular Framework for Graph Matching and Classification via Graph Neural Networks. Int. J. Pattern
   Recognit. Artif. Intell. 40(12): 2659020:1-2659020:32 (2026)

2. Corina Masanti, Hans-Friedrich Witschel, Kaspar Riesen:
   Enhancing language models with boosting and targeted fine-tuning for real-word error detection.
   Nat. Lang. Process. J. 14: 100202 (2026)

3. Mathias Fuchs, Kaspar Riesen:
   Fast approximate maximum common subgraph computation.
   Pattern Recognit. Lett. 190: 66-72 (2025)

4. Anthony Gillioz, Kaspar Riesen:
   Normalized graph compression distance - A novel graph matching framework.
   Pattern Recognit. Lett. 190: 97-104 (2025)

5. Anthony Gillioz, Kaspar Riesen:
   Graph-based pattern recognition on spectral reduced graphs.
   Pattern Recognit. 144: 109859 (2023)

6. Anthony Gillioz, Kaspar Riesen:
   Building Multiple Classifier Systems Using Linear Combinations of Reduced Graphs.
   SN Comput. Sci. 4(6): 743 (2023)

7. Mathias Fuchs, Kaspar Riesen:
   A novel way to formalize stable graph cores by using matching-graphs.
   Pattern Recognit. 131: 108846 (2022)

8. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
   Filters for graph-based keyword spotting in historical handwritten documents.
   Pattern Recognit. Lett. 134: 125-134 (2020)

9. Kaspar Riesen, Miquel Ferrer, Horst Bunke:
   Approximate Graph Edit Distance in Quadratic Time.
   IEEE ACM Trans. Comput. Biol. Bioinform. 17(2): 483-494 (2020)

10. Kaspar Riesen, Roman Schmidt:
    Online signature verification based on string edit distance.
    Int. J. Document Anal. Recognit. 22(1): 41-54 (2019)

11. Narayan Schütz, Alexander B. Leichtle, Kaspar Riesen:
    A comparative study of pattern recognition algorithms for predicting the inpatient mortality risk using routine laboratory measurements.
    Artif. Intell. Rev. 52(4): 2559-2573 (2019)

12. Mohammad Reza Ameri, Michael Stauffer, Kaspar Riesen, Tien D. Bui, Andreas Fischer:
Graph-based keyword spotting in historical manuscripts using Hausdorff edit distance.
Pattern Recognit. Lett. 121: 61-67 (2019)

13. Paul Maergner, Vinaychandran Pondenkandath, Michele Alberti, Marcus Liwicki, Kaspar Riesen, Rolf Ingold, Andreas Fischer:
Combining graph edit distance and triplet networks for offline signature verification.
Pattern Recognit. Lett. 125: 527-533 (2019)

14. Kaspar Riesen, Andreas Fischer, Horst Bunke:
On the Impact of Using Utilities Rather than Costs for Graph Matching.
Neural Process. Lett. 48(2): 691-707 (2018)

15. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
Keyword spotting in historical handwritten documents based on graph matching.
Pattern Recognit. 81: 240-253 (2018)

16. Kaspar Riesen, Thomas Hanne, Roman Schmidt:
Sketch-Based User Authentication With a Novel String Edit Distance Model.
IEEE Trans. Syst. Man Cybern. Syst. 48(3): 460-472 (2018)

17. Brian Kenji Iwana, Volkmar Frinken, Kaspar Riesen, Seiichi Uchida:
Efficient temporal pattern recognition by means of dissimilarity space embedding with discriminative prototypes.
Pattern Recognit. 64: 268-276 (2017)

18. Andreas Fischer, Kaspar Riesen, Horst Bunke:
Improved quadratic time approximation of graph edit distance by combining Hausdorff matching and greedy assignment.
Pattern Recognit. Lett. 87: 55-62 (2017)

19. Kaspar Riesen, Miquel Ferrer:
Predicting the correctness of node assignments in bipartite graph matching.
Pattern Recognit. Lett. 69: 8-14 (2016)

20. Kaspar Riesen, Andreas Fischer, Horst Bunke:
Estimating Graph Edit Distance Using Lower and Upper Bounds of Bipartite Approximations.
Int. J. Pattern Recognit. Artif. Intell. 29(2): 1550011:1-1550011:27 (2015)

21. Andreas Fischer, Ching Y. Suen, Volkmar Frinken, Kaspar Riesen, Horst Bunke:
Approximation of graph edit distance based on Hausdorff matching.
Pattern Recognit. 48(2): 331-343 (2015)

22. Kaspar Riesen, Horst Bunke:
Improving bipartite graph edit distance approximation using various search strategies.
Pattern Recognit. 48(4): 1349-1363 (2015)

23. Miquel Ferrer, Francesc Serratosa, Kaspar Riesen:
Improving bipartite graph matching by assessing the assignment confidence.
Pattern Recognit. Lett. 65: 29-36 (2015)

24. Ehsan Zare Borzeshi, Massimo Piccardi, Kaspar Riesen, Horst Bunke:
Discriminative prototype selection methods for graph embedding.
Pattern Recognit. 46(6): 1648-1657 (2013)

25. Stefan Fankhauser, Kaspar Riesen, Horst Bunke, Peter J. Dickinson:
Suboptimal Graph Isomorphism using bipartite Matching.
Int. J. Pattern Recognit. Artif. Intell. 26(6) (2012)

26. Horst Bunke, Kaspar Riesen:
Towards the unification of structural and statistical pattern recognition.
Pattern Recognit. Lett. 33(7): 811-825 (2012)

27. Horst Bunke, Kaspar Riesen:
Recent advances in graph-based pattern recognition with applications in document analysis.
Pattern Recognit. 44(5): 1057-1067 (2011)

28. Horst Bunke, Kaspar Riesen:
Improving vector space embedding of graphs through feature selection algorithms.
Pattern Recognit. 44(9): 1928-1940 (2011)

29. Miquel Ferrer, Ernest Valveny, Francesc Serratosa, Kaspar Riesen, Horst Bunke:
Generalized median graph computation by means of graph embedding in vector spaces.
Pattern Recognit. 43(4): 1642-1655 (2010)

30. Kaspar Riesen, Horst Bunke:
Reducing the dimensionality of dissimilarity space embedding graph kernels.
Eng. Appl. Artif. Intell. 22(1): 48-56 (2009)

31. Kaspar Riesen, Horst Bunke:
Graph Classification Based on Vector Space Embedding.
Int. J. Pattern Recognit. Artif. Intell. 23(6): 1053-1081 (2009)

32. Kaspar Riesen, Horst Bunke:
Approximate graph edit distance computation by means of bipartite graph matching.
Image Vis. Comput. 27(7): 950-959 (2009)

33. Kaspar Riesen, Horst Bunke:
Graph Classification by Means of Lipschitz Embedding.
IEEE Trans. Syst. Man Cybern. Part B 39(6): 1472-1483 (2009)

2. Books/Monographs

1. Kaspar Riesen: Java in 14 Wochen.
Springer 2020, ISBN 978-3-658-30312-9, pp. 1-385

2. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
Graph-Based Keyword Spotting.
Series in Machine Perception and Artificial Intelligence 86, WorldScientific 2019, ISBN: 978-981-120-663-4, pp. 1-296

3. Kaspar Riesen:
   Structural Pattern Recognition with Graph Edit Distance - Approximation Algorithms and Applications.
   Advances in Computer Vision and Pattern Recognition, Springer 2015, ISBN 978-3-319-27251-1, pp. 3-156

4. Kaspar Riesen, Horst Bunke:
   Graph Classification and Clustering Based on Vector Space Embedding.
   Series in Machine Perception and Artificial Intelligence 77, WorldScientific 2010, ISBN 978-981-4304-71-9, pp. 1-348

3. Contributions to Books

1. Michael Stauffer, Paul Maergner, Andreas Fischer, Kaspar Riesen:
   A Survey of State of the Art Methods Employed in the Offline Signature Verification Process.
   New Trends in Business Information Systems and Technology; Digital Innovation and Digital Business Transformation Edited By: R. Dornberger (2021)

2. Paul Maergner, Kaspar Riesen, Rolf Ingold, Andreas Fischer:
   Signature verification via graph-based methods.
   Handbook of Pattern Recognition and Computer Vision (6th Edition) Edited By: C. H. Chen (2020)

3. Kaspar Riesen, Horst Bunke:
   Graph Edit Distance – Novel Approximation Algorithms.
   Handbook of Pattern Recognition and Computer Vision (5th Edition) Edited By: C. H. Chen (2016)

4. Kaspar Riesen, Xiaoyi Jiang, Horst Bunke:
   Exact and Inexact Graph Matching: Methodology and Applications.
   Managing and Mining Graph Data 2010: 217-247

4. Peer-Reviewed Conference Papers

1. Daniel Nico Bigler, Andreas Vogt, Kaspar Riesen:
   Benchmarking LLMs for ASA Physical Status Classification from German Anesthesia Records.
   ANNPR 2026: 1-13

2. Tobias Steiner, Merlin Streilein, Andreas Fischer, Kaspar Riesen:
   Rerankers in the SHADOW: What Dense Retrieval Leaves Behind.
   ANNPR 2026: 179-191

3. Tobias Steiner, Merlin Streilein, Andreas Fischer, Kaspar Riesen:
   Benchmarking Information Retrieval for Large Archives of Historical Documents.
   ICDAR (3) 2026: 54-69

4. Merlin Streilein, Tobias Steiner, Andreas Fischer, Kaspar Riesen:
   Token Selection Strategies for Automatic Summarization of Historical Documents.
   ICDAR (2) 2026: 195-210

5. Linlin Jia, Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Benchmarking Transformers on Spatio-Temporal River Water Temperature Modeling.
ICPR (4) 2026: 250-264

6. Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Embedding Techniques for Modeling Ambiguous Time Series in River Water Networks.
ICPR (Workshops,3) 2026: 318-332

7. Merlin Streilein, Tobias Steiner, Andreas Fischer, Kaspar Riesen:
Modern Summarization Methods for Diplomatic Documents: Current State and Limitations.
ICPR (4) 2026: 558-573

8. Corina Masanti, Hans-Friedrich Witschel, Kaspar Riesen:
Efficient Error-Type Transfer for Grammatical Error Detection via Embedding Alignment.
NLDB 2026: 189-203

9. Kalvin Dobler, Kaspar Riesen:
Approximating Graph Edit Distance via Differentiable Birkhoff Decompositions.
ACPR (2) 2025: 32-47

10. Kalvin Dobler, Kaspar Riesen:
A Geometric Perspective on Graph Similarity Learning Using Convex Hulls.
GbRPR 2025: 103-112

11. Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Exploring a Graph Regression Problem in River Networks.
GbRPR 2025: 203-213

12. Corina Masanti, Hans Friedrich Witschel, Kaspar Riesen:
Boosting Language Models for Real-Word Error Detection.
ICPRAM 2025: 318-325

13. Fereshteh Jafari, Joseph Moerschell, Kaspar Riesen:
Predicting Photovoltaic Power Output Using LSTM: A Comparative Study Using both Historical and Climate Data.
ICPRAM 2025: 733-740

14. Francesco Leonardi, Kaspar Riesen:
Dissimilarity-Based Graph Embedding: An Efficient GAT-based Approach.
ICPR (10) 2024: 361-374

15. Corina Masanti, Hans Friedrich Witschel, Kaspar Riesen:
Automated Error Detection Through Specialized Task Implementation.
ICPRAI (2) 2024: 182-195

16. Aylin Tastan, Clara Escorihuela-Altaba, Jose F. Garcia-Tirado, Kaspar Riesen:
Clustering Time Series Data for Personalized Type 1 Diabetes Management.
ICPRAI (2) 2024: 196-211

17. Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Impute Water Temperature in the Swiss River Network Using LSTMs.
ICPRAM 2024: 732-738

18. Kalvin Dobler, Kaspar Riesen:
Learning Graph Similarity by Counting Holes in Simplicial Complexes.
S+SSPR 2024: 11-20

19. Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Spatio-Temporal Graph Neural Networks for Water Temperature Modeling.
S+SSPR 2024: 31-40

20. Fabian Hüni, Jose F. Garcia-Tirado, Kaspar Riesen:
LSTM Networks and Graph Neural Networks for Predicting Events of Hypoglycemia.
S+SSPR 2024: 52-61

21. Michael Brunner, Kaspar Riesen:
Comparing Learning Methods to Enhance Decision-Making in Simulated Curling.
S+SSPR 2024: 156-165

22. Kalvin Dobler, Kaspar Riesen:
Learning Graph Matching with Graph Neural Networks.
ANNPR 2024: 3-12

23. Hannes Thurnherr, Kaspar Riesen:
Neural Decompiling of Tracr Transformers.
ANNPR 2024: 25-36

24. Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Leveraging LSTM Embeddings for River Water Temperature Modeling.
ANNPR 2024: 283-294

25. Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Impute Water Temperature in the Swiss River Network Using LSTMs.
ICPRAM 2024: 732-738

26. Linlin Jia, Xiao Ning, Benoit Gaüzère, Paul Honeine, Kaspar Riesen:
Bridging Distinct Spaces in Graph-Based Machine Learning.
ACPR (2) 2023: 1-14

27. Anthony Gillioz, Kaspar Riesen:
Graph-Based vs. Vector-Based Classification: A Fair Comparison.
GbRPR 2023: 25-34

28. Mathias Fuchs, Kaspar Riesen:
Matching-Graphs for Building Classification Ensembles.
GbRPR 2023: 102-112

29. Benjamin Fankhauser, Vidushi Bigler, Kaspar Riesen:
Graph-Based Deep Learning on the Swiss River Network.
GbRPR 2023: 172-181

30. Anthony Gillioz, Kaspar Riesen:
Two-Step Graph Classification on the Basis of Hierarchical Graphs.
ICPRAM 2023: 296-303

31. Corina Masanti, Hans Friedrich Witschel, Kaspar Riesen:
Novel Benchmark Data Set for Automatic Error Detection and Correction.
NLDB 2023: 511-521

32. Mathias Fuchs, Kaspar Riesen:
Graph Augmentation for Neural Networks Using Matching-Graphs.
ANNPR 2022: 3-15

33. Mathias Fuchs, Kaspar Riesen:
Augment Small Training Sets Using Matching-Graphs.
ICPRAI (2) 2022: 343-354

34. Anthony Gillioz, Kaspar Riesen:
Improving Graph Classification by Means of Linear Combinations of Reduced Graphs.
ICPRAM 2022: 17-23

35. Anthony Gillioz, Kaspar Riesen:
Graph Reduction Neural Networks for Structural Pattern Recognition.
S+SSPR 2022: 64-73

36. Anthony Gillioz, Kaspar Riesen:
Speeding up Graph Matching by Means of Systematic Graph Reductions Using Centrality Measures.
ICPRS 2022: 1-7

37. Mathias Fuchs, Kaspar Riesen:
Iterative Creation of Matching-Graphs - Finding Relevant Substructures in Graph Sets.
CIARP 2021: 382-391

38. Hans Friedrich Witschel, Kaspar Riesen, Loris Grether:
Natural Language-based User Guidance for Knowledge Graph Exploration: A User Study.
KDIR 2021: 95-102

39. Mathias Fuchs, Kaspar Riesen:
Graph Embedding in Vector Spaces Using Matching-Graphs.
SISAP 2021: 352-363

40. Hans Friedrich Witschel, Kaspar Riesen, Loris Grether:
KvGR: A Graph-Based Interface for Explorative Sequential Question Answering on Heterogeneous Information Sources.
ECIR (1) 2020: 760-773

41. Mathias Fuchs, Kaspar Riesen:
Matching of Matching-Graphs - A Novel Approach for Graph Classification.
ICPR 2020: 6570-6576

42. Kaspar Riesen, Hans Friedrich Witschel, Loris Grether:
A Novel Data Set for Information Retrieval on the Basis of Subgraph Matching.
S+SSPR 2020: 205-215

43. Michael Stauffer, Paul Maergner, Andreas Fischer, Kaspar Riesen:
Cross-Evaluation of Graph-Based Keyword Spotting in Handwritten Historical Documents.
GbRPR 2019: 45-55

44. Michael Stauffer, Paul Maergner, Andreas Fischer, Kaspar Riesen:
Graph Embedding for Offline Handwritten Signature Verification.
ICBEA 2019: 69-76

45. Michael Stauffer, Paul Maergner, Andreas Fischer, Rolf Ingold, Kaspar Riesen:
Offline Signature Verification using Structural Dynamic Time Warping.
ICDAR 2019: 1117-1124

46. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
Graph-Based Keyword Spotting in Historical Documents Using Context-Aware Hausdorff Edit Distance.
DAS 2018: 49-54

47. Paul Maergner, Nicholas R. Howe, Kaspar Riesen, Rolf Ingold, Andreas Fischer:
Offline Signature Verification Via Structural Methods: Graph Edit Distance and Inkball Models.
ICFHR 2018: 163-168

48. Paul Maergner, Vinaychandran Pondenkandath, Michele Alberti, Marcus Liwicki, Kaspar Riesen, Rolf Ingold, Andreas Fischer:
Offline Signature Verification by Combining Graph Edit Distance and Triplet Networks.
S+SSPR 2018: 470-480

49. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
Speeding-Up Graph-Based Keyword Spotting by Quadtree Segmentations.
CAIP (1) 2017: 304-315

50. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
Speeding-Up Graph-Based Keyword Spotting in Historical Handwritten Documents.
GbRPR 2017: 83-93

51. Kaspar Riesen, Andreas Fischer, Horst Bunke:
Improved Graph Edit Distance Approximation with Simulated Annealing.
GbRPR 2017: 222-231

52. Michael Stauffer, Thomas Tschachtli, Andreas Fischer, Kaspar Riesen:
A Survey on Applications of Bipartite Graph Edit Distance.
GbRPR 2017: 242-252

53. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
Ensembles for Graph-Based Keyword Spotting in Historical Handwritten Documents.
ICDAR 2017: 714-720

54. Paul Maergner, Kaspar Riesen, Rolf Ingold, Andreas Fischer:
A Structural Approach to Offline Signature Verification Using Graph Edit Distance.
ICDAR 2017: 1216-1222

55. Kaspar Riesen, Andreas Fischer, Horst Bunke:
Approximation of Graph Edit Distance by Means of a Utility Matrix.
ANNPR 2016: 185-194

56. Xavier Cortés, Francesc Serratosa, Kaspar Riesen:
On the Relevance of Local Neighbourhoods for Greedy Graph Edit Distance.
S+SSPR 2016: 121-131

57. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
A Novel Graph Database for Handwritten Word Images.
S+SSPR 2016: 553-563

58. Michael Stauffer, Andreas Fischer, Kaspar Riesen:
Graph-Based Keyword Spotting in Historical Handwritten Documents.
S+SSPR 2016: 564-573

59. Kaspar Riesen, Miquel Ferrer, Andreas Fischer, Horst Bunke:
Approximation of Graph Edit Distance in Quadratic Time.
GbRPR 2015: 3-12

60. Miquel Ferrer, Francesc Serratosa, Kaspar Riesen:
A First Step Towards Exact Graph Edit Distance Using Bipartite Graph Matching.
GbRPR 2015: 77-86

61. Andreas Fischer, Seiichi Uchida, Volkmar Frinken, Kaspar Riesen, Horst Bunke:
Improving Hausdorff Edit Distance Using Structural Node Context.
GbRPR 2015: 148-157

62. Brian Kenji Iwana, Seiichi Uchida, Kaspar Riesen, Volkmar Frinken:
Tackling temporal pattern recognition by vector space embedding.
ICDAR 2015: 816-820

63. Hans Friedrich Witschel, Simon Loo, Kaspar Riesen:
How to Support Customer Segmentation with Useful Cluster Descriptions.
ICDM 2015: 17-31

64. Kaspar Riesen, Miquel Ferrer, Andreas Fischer:
Building Classifier Ensembles Using Greedy Graph Edit Distance.
MCS 2015: 125-134

65. Kaspar Riesen, Miquel Ferrer, Horst Bunke:
Suboptimal Graph Edit Distance Based on Sorted Local Assignments.
MCS 2015: 147-156

66. Kaspar Riesen, Miquel Ferrer, Rolf Dornberger, Horst Bunke:
Greedy Graph Edit Distance.
MLDM 2015: 3-16

67. Miquel Ferrer, Francesc Serratosa, Kaspar Riesen:
Learning Heuristics to Reduce the Overestimation of Bipartite Graph Edit Distance Approximation.
MLDM 2015: 17-31

68. Kaspar Riesen, Andreas Fischer, Horst Bunke:
Combining Bipartite Graph Matching and Beam Search for Graph Edit Distance Approximation.
ANNPR 2014: 117-128

69. Kaspar Riesen, Andreas Fischer, Horst Bunke:
Computing Upper and Lower Bounds of Graph Edit Distance in Cubic Time.
ANNPR 2014: 129-140

70. Kaspar Riesen, Rolf Dornberger, Horst Bunke:
Iterative Bipartite Graph Edit Distance Approximation.
Document Analysis Systems 2014: 61-65

71. Kaspar Riesen, Darko Brodic, Zoran N. Milivojevic, Cedomir A. Maluckov:
Graph Based Keyword Spotting in Medieval Slavic Documents - A Project Outline.
EuroMed 2014: 724-731

72. Kaspar Riesen, Horst Bunke:
Improving Approximate Graph Edit Distance by Means of a Greedy Swap Strategy.
ICISP 2014: 314-321

73. Kaspar Riesen, Horst Bunke, Andreas Fischer:
Improving Graph Edit Distance Approximation by Centrality Measures.
ICPR 2014: 3910-3914

74. Kaspar Riesen, Andreas Fischer, Horst Bunke:
Improving Approximate Graph Edit Distance Using Genetic Algorithms.
S+SSPR 2014: 63-72

75. Benoit Gaüzère, Sébastien Bougleux, Kaspar Riesen, Luc Brun:
Approximate Graph Edit Distance Guided by Bipartite Matching of Bags of Walks.
S+SSPR 2014: 73-82

76. Andreas Fischer, Réjean Plamondon, Yvon Savaria, Kaspar Riesen, Horst Bunke:
A Hausdorff Heuristic for Efficient Computation of Graph Edit Distance.
S+SSPR 2014: 83-92

77. Kaspar Riesen, Sandro Emmenegger, Horst Bunke:
A Novel Software Toolkit for Graph Edit Distance Computation.
GbRPR 2013: 142-151

78. Andreas Fischer, Ching Y. Suen, Volkmar Frinken, Kaspar Riesen, Horst Bunke:
A Fast Matching Algorithm for Graph-Based Handwriting Recognition.
GbRPR 2013: 194-203

79. Stefan Fankhauser, Kaspar Riesen, Horst Bunke:
Speeding Up Graph Edit Distance Computation through Fast Bipartite Matching.
GbRPR 2011: 102-111

80. Andreas Fischer, Kaspar Riesen, Horst Bunke:
Graph Similarity Features for HMM-Based Handwriting Recognition in Historical Documents.
ICFHR 2010: 253-258

81. Jonas Richiardi, Dimitri Van De Ville, Kaspar Riesen, Horst Bunke:
Vector Space Embedding of Undirected Graphs with Fixed-cardinality Vertex Sequences for Classification.
ICPR 2010: 902-905

82. Kaspar Riesen, Horst Bunke:
Feature Ranking Algorithms for Improving Classification of Vector Space Embedded Graphs.
CAIP 2009: 377-384

83. Kaspar Riesen, Stefan Fankhauser, Horst Bunke, Peter J. Dickinson:
Efficient Suboptimal Graph Isomorphism.
GbRPR 2009: 124-133

84. Kaspar Riesen, Volkmar Frinken, Horst Bunke:
Improving Graph Classification by Isomap.
GbRPR 2009: 205-214

85. Kaspar Riesen, Horst Bunke:
Cluster Ensembles Based on Vector Space Embeddings of Graphs.
MCS 2009: 211-221

86. Kaspar Riesen, Horst Bunke:
Dissimilarity Based Vector Space Embedding of Graphs Using Prototype Reduction Schemes.
MLDM 2009: 617-631

87. Kaspar Riesen, Horst Bunke:
Kernel k-Means Clustering Applied to Vector Space Embeddings of Graphs.
ANNPR 2008: 24-35

88. Miquel Ferrer, Ernest Valveny, Francesc Serratosa, Kaspar Riesen, Horst Bunke:
An approximate algorithm for median graph computation using graph embedding.
ICPR 2008: 1-4

89. Andreas Fischer, Kaspar Riesen, Horst Bunke:
An experimental study of graph classification using prototype selection.
ICPR 2008: 1-4

90. Alexandra Brügger, Horst Bunke, Peter J. Dickinson, Kaspar Riesen:
Generalized Graph Matching for Data Mining and Information Retrieval.
ICDM 2008: 298-312

91. Kaspar Riesen, Horst Bunke:
On Lipschitz Embeddings of Graphs.
KES (1) 2008: 131-140

92. Horst Bunke, Kaspar Riesen:
Recent Developments in Graph Classification and Clustering using Graph Embedding Kernels.
PRIS 2008: 3-13

93. Kaspar Riesen, Horst Bunke:
Non-linear Transformations of Vector Space Embedded Graphs.
PRIS 2008: 173-183

94. Horst Bunke, Kaspar Riesen:
Graph Classification on Dissimilarity Space Embedding.
SSPR/SPR 2008: 2

95. Kaspar Riesen, Horst Bunke:
IAM Graph Database Repository for Graph Based Pattern Recognition and Machine Learning.
SSPR/SPR 2008: 287-297

96. Horst Bunke, Kaspar Riesen:
Graph Classification Based on Dissimilarity Space Embedding.
SSPR/SPR 2008: 996-1007

97. Horst Bunke, Kaspar Riesen:
A Family of Novel Graph Kernels for Structural Pattern Recognition.
CIARP 2007: 20-31

98. Kaspar Riesen, Michel Neuhaus, Horst Bunke:
Bipartite Graph Matching for Computing the Edit Distance of Graphs.
GbRPR 2007: 1-12

99. Kaspar Riesen, Michel Neuhaus, Horst Bunke:
Graph Embedding in Vector Spaces by Means of Prototype Selection.
GbRPR 2007: 383-393

100. Kaspar Riesen, Horst Bunke:
Structural Classifier Ensembles for Vector Space Embedded Graphs.
IJCNN 2007: 1500-1505

101. Kaspar Riesen, Horst Bunke:
Classifier Ensembles for Vector Space Embedding of Graphs.
MCS 2007: 220-230

102. Kaspar Riesen, Vivian Kilchherr, Horst Bunke:
Reducing the Dimensionality of Vector Space Embeddings of Graphs.
MLDM 2007: 563-573

103. Kaspar Riesen, Stefan Fankhauser, Horst Bunke:
Speeding Up Graph Edit Distance Computation with a Bipartite Heuristic.
MLG 2007

104. Michel Neuhaus, Kaspar Riesen, Horst Bunke:
Fast Suboptimal Algorithms for the Computation of Graph Edit Distance.
SSPR/SPR 2006: 163-172

5. Patents and Licenses

1. Kaspar Riesen, Roman Schmidt:
Method and apparatus for determining a similarity measure between drawings.
European Patent EP16161706.3 (2019)

6. Other Publications

1. Francesco Leonardi, Boris Bonev, Kaspar Riesen: MARA: Continuous SE(3)-Equivariant Attention for Molecular Force Fields. CoRR abs/2602.02671 (2026)

2. histograph.ch:
   Graph benchmark data sets for keyword spotting in historical documents.

3. IAM Graph Database:
   Several standardized graph data sets for benchmarking covering a wide spectrum of different applications.