Matti Pöllä – List of Publications

[1] Timo Honkela, Ville Könönen, Matti Pöllä, and Olli Simula, editors. *Proceedings of AKRR'05, International and Interdisciplinary Conference on Adaptive Knowledge Representation and Reasoning.* Helsinki University of Technology, Espoo, Finland, June 2005.

[2] Timo Honkela, Matti Pöllä Mari-Sanna Paukkeri, and Olli Simula, editors. *Proceedings of AKRR'08, The Second International and Interdisciplinary Conference on Adaptive Knowlege Representation and Reasoning*, Porvoo, Finland, September 2008. Helsinki University of Technology.

[3] Timo Honkela and Matti Pöllä. Describing rich content: Future directions for the semantic web. In *New Developments in Artificial Intelligence and Semantic Web. Proceedings of the 12th Finnish Artificial Intelligence Conference STeP 2006*, pages 143–148, Espoo, Finland, October 2006. Helsinki University of Technology.

[4] Seppo Ovaska, Olli Vainio, and Matti Pöllä. Adaptive filtering using multiplicative general parameters for zero-crossing detection. *IEEE Transactions on Industrial Electronics*, 50(6):1340–1342, December 2003.

[5] Mari-Sanna Paukkeri, Ilari Nieminen, Matti Pöllä, and Timo Honkela. A language-independent approach to keyphrase extraction and evaluation. In *Proceedings of the 22nd International Conference on Computational Linguistics (COLING 2008)*, Manchester, UK, August 2008. to appear.

[6] Matti Pöllä. Comparison of predictive FIR-based zero-crossing detection methods. In *Proceedings of FINSIG'03 – 2003 Finnish Signal Processing Symposium*, pages 87–90, Tampere, Finland, May 2003.

[7] Matti Pöllä. Modeling anticipatory behavior with self-organizing neural networks. Master's thesis, Helsinki University of Technology, Espoo, Finland, May 2005.

[8] Matti Pöllä. A generative model for self/non-self discrimination in strings. In *Proceedings of ICANNGA'09: International Conference on Adaptive and Natural Computing Algorithms*, Lecture Notes in Computer Science. Springer-Verlag, April 2009. to appear.

[9] Matti Pöllä and Timo Honkela. Self-organizing neural network models for state anticipatory systems. In D. Dubois, editor, *Computing Anticipatory Systems (CASYS'05)*, Liège, Belgium, August 2005. American Institute of Physics, Woodbury, New York. Received Best Paper Award.

[10] Matti Pöllä and Timo Honkela. Probabilistic text change detection using an immune model. In *Proceedings of the International Joint Conference on Neural Networks, IJCNN 2007*, pages 1109–1114, Orlando, Florida, August 2007.

[11] Matti Pöllä and Timo Honkela. Change detection of text documents using negative first-order statistics. In *Poceedings of AKRR'08, The Second International and Interdisciplinary Conference*

on Adaptive Knowledge Representation and Reasoning, pages 48–55, Porvoo, Finland, September 2008.

[12] Matti Pöllä, Timo Honkela, Henrik Bruun, and Ann Russell. Analysis of interdisciplinary text corpora. In *Proceedings of Ninth Scandinavian Conference on Artificial Intelligence (SCAI 2006)*, pages 17–22, Helsinki, Finland, October 2006.

[13] Matti Pöllä, Timo Honkela, and Xiao-Zhi Gao. Biologically inspired clustering: Comparing the neural and immune paradigms. In *Proceedings of NICSO 2007 Workshop on Nature Inspired Cooperative Strategies for Optimization*, volume 129 of *Studies in Computational Intelligence (SCI)*, pages 179–188, Acireale, Italy, November 2008. Springer-Verlag.

[14] Matti Pöllä, Tiina Lindh-Knuutila, and Timo Honkela. Self-refreshing SOM as a semantic memory model. In *Proceedings of AKRR'05, International and Interdisciplinary Conference on Adaptive Knowledge Representation and Reasoning*, pages 171–174, Espoo, Finland, June 2005.

[15] Ann Russell, Timo Honkela, Krista Lagus, and Matti Pöllä, editors. *Proceedings of AMKLC'05, International Symposium on Adaptive Models of Knowledge, Language and Cognition.* Helsinki University of Technology, Espoo, Finland, June 2005.

[16] Mats Sjöberg, Jorma Laaksonen, Timo Honkela, and Matti Pöllä. Retrieval of multimedia objects by combining semantic information from visual and textual descriptors. In *Proceedings of International Conference on Artificial Neural Networks*, Athens, Greece, September 2006. 75–83.

[17] Mats Sjöberg, Jorma Laaksonen, Timo Honkela, and Matti Pöllä. Inferring semantics from textual information in multimedia retrieval. *Neurocomputing*, 2008. to appear.

[18] Konstantinos Stamatakis, Konstantinos Chandrinos, Vangelis Karkaletsis, Miquel Angel Mayer, Dagmar Villarroel Gonzales, Martin Labský, Enrique Amigó, and Matti Pöllä. AQUA, a system assisting labelling experts assess health web resources. In *Proceedings of 12th International Symposium for Health Information Management Research, iSHIMR 2007*, Sheffield, UK, July 2007. to appear.

[19] Konstantinos Stamatakis, Vangelis Metsis, Vangelis Karkaletsis, Marek Růžička, Vojtech Svátek, Enrique Amigó Cabrera, and Matti Pöllä. Content collection for the labeling of health-related web content. In *Proceedings of 11th Conference on Artificial Intelligence in Medicine (AIME 07)*, Amsterdam, The Netherlands, July 2007. to appear.