

Marco Maggini – published papers (2005-present)

I. International Journals

1. M. Gori, M. Maggini, L. Sarti, “**Exact and Approximate Graph Matching Using Random Walks**”, *IEEE Transactions on Pattern Analysis and Machine Intelligence - Special issue on Syntactic and Structural Pattern Recognition*, vol. 27, n. 7, pp. 1100-1111, July 2005
2. M. Bianchini, M. Maggini, L. Sarti, F. Scarselli, “**Recursive Neural Networks Learn to Localize Faces**”, *Pattern Recognition Letters*, vol. 26, n. 12, pp. 1885-1895, September 2005
3. M. Bianchini, M. Maggini, L. Sarti, F. Scarselli, “**Recursive Neural Networks for Processing Graphs with Labelled Edges: Theory and Applications**”, *Neural Networks - Special Issue on Neural Networks and Kernel Methods for Structured Domains*, vol. 18, n. 8, pp. 1040-1050, October 2005
4. F. Geraci, M. Pellegrini, M. Maggini, F. Sebastiani, “**Cluster Generation and Labeling for Web Snippets: a Fast, Accurate Hierarchical Solution**”, *Internet Mathematics*, Vol. 3, Issue 4, pp. 413-444, 2008
5. S. Altinier, L. Sarti, M. Varagnolo, M. Zaninotto, M. Maggini, M. Plebani, “**An expert system for the classification of serum protein electrophoresis patterns**”, *Clinical Chemistry and Laboratory Medicine*, Vol. 46, Issue 10, pp. 1458-1463, October 2008
6. S. Melacci, L. Sarti, M. Maggini, M. Gori, “**A template-based approach to automatic face enhancement**”, *Pattern Analysis and Applications*, Vol. 13, n. 3, pp. 289-300, August 2010
7. M. Diligenti, M. Gori, M. Maggini, “**A unified representation of web logs for mining applications**”, *Information Retrieval*, DOI: 10.1007/s10791-010-9160-6, December 2010 (to appear, available on-line)

II. Book chapters and edited books

1. M. Bianchini, M. Maggini, L. Sarti, “**Recursive Neural Networks and Their Applications to Image Processing**”, series in Advances in Imaging and Electron Physics, Volume 140, Peter Hawkes (Eds.), Elsevier Academic Press, pp. 1-60, 2006
2. A. Pucci, M. Gori, M. Maggini, “**A Random-Walk Based Scoring Algorithm applied to Recommender Engines**”, in Advances in Web Mining and Web Usage Analysis - 8th International Workshop on Knowledge Discovery on the Web, WEBKDD 2006, Revised Papers, Springer Lecture Notes in Computer Science (LNCS/LNAI), Vol. 4811, O. Nasraoui, M. Spiliopoulou, J. Srivastava, B. Mobasher, B. Masand (Eds) pp. 127-146, 2007
3. M. Bianchini, M. Maggini, F. Scarselli, L. C. Jain, “**Advances in Neural Information Processing Paradigms**”, in Innovations in Neural Information Paradigms and Applications, Springer Studies in Computational Intelligence, Volume 247, ISBN: 978-3-642-04002-3, M. Bianchini, M. Maggini, F. Scarselli, L. C. Jain (Eds.), pp. 1-8, 2010

III. International Refereed Conferences

1. M. Diligenti, M. Gori, M. Maggini, “**Learning Web Page Scores by Error Back-Propagation**”, *Proceedings of the 19th International Joint Conference on Artificial Intelligence (IJCAI '05)*, pp. 684-689, Edinburgh (UK), July 30-August 5, 2005
2. M. Gori, M. Maggini, L. Sarti, “**The RW2 Algorithm for Exact Graph Matching**”, *Proceedings of the 3rd International Conference on Advances in Pattern Recognition (ICAPR 2005)*, LNCS Vol. 3686/2005, Springer, vol. 1, pp. 81-88, Bath (UK), August 22-25, 2005
3. M. Maggini, L. Rigutini, “**A Semi-supervised Document Clustering Algorithm based on EM**”, *Proceedings of the IEEE/ACM/WI International Conference on Web Intelligence (WIC 2005)*, pp. 200-206, Compiègne (France), September 19-22, 2005
4. L. Rigutini, M. Maggini, B. Liu, “**An EM based training algorithm for Cross-Language Text Categorization**”, *Proceedings of the IEEE/ACM/WI International Conference on Web Intelligence (WIC 2005)*, pp. 529-535, Compiègne (France), September 19-22, 2005

5. F. Scarselli, S. L. Yong, M. Gori, M. Hagenbuchner, A. H. Tsoi, M. Maggini, "**Graph Neural Networks for Ranking Web Pages**", *Proceedings of the IEEE/ACM/WI International Conference on Web Intelligence (WIC 2005)*, pp. 666-672, Compiègne (France), September 19-22, 2005
6. M. Bianchini, E. Di Iorio, M. Maggini, C. Mocenni, A. Pucci, "**A cyclostationary neural network model for the prediction of the NO₂ concentration**", *Proceedings of the 14th European Symposium on Artificial Neural Networks (ESANN 2006)*, pp. 67-72, Bruges (Belgium), April 26-28, 2006
7. L. Rigutini, E. Di Iorio, M. Ernandes, M. Maggini, "**Automatic Term Categorization by Extracting Knowledge from the Web**", *Proceedings of the 17th European Conference on Artificial Intelligence (ECAI 2006)*, pp. 531-535, Riva del Garda (Italy), August 28-September 1, 2006
8. V. Di Massa, G. Monfardini, L. Sarti, F. Scarselli, M. Maggini, M. Gori, "**A Comparison Between Recursive Neural Networks and Graph Neural Networks**", *Proceedings of the IEEE International Joint Conference on Neural Networks (IJCNN 2006)*, pp. 778-785, Vancouver (Canada), July 16-21, 2006
9. M. Bianchini, M. Maggini, L. Sarti, "**Object Localization using Input/Output Recursive Neural Networks**", *Proceedings of the 18th International Conference on Pattern Recognition (ICPR 2006)*, Volume 3, pp. 95-98, Hong Kong (China), August 20-24, 2006
10. M. Bianchini, M. Maggini, L. Sarti, "**Object Recognition Using Multiresolution Trees**", *Proceedings of the IAPR International Workshop on Structural and Syntactic Pattern Recognition (SSPR 2006)*, LNCS 4109/2006, Springer, pp. 331-339, Hong Kong (China), August 17-19, 2006
11. I. G. Councill, C. L. Giles, E. Di Iorio, M. Gori, M. Maggini, A. Pucci, "**Towards next generation Citeseer: A flexible architecture for search engine deployment**", *Proceedings of the 10th European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2006)*, LNCS Vol. 4172/2006, Springer, pp. 111-122, Alicante (Spain), September 17-22, 2006
12. M. Pellegrini, F. Geraci, M. Maggini, F. Sebastiani, "**Cluster Generation and Cluster Labelling for Web Snippets: A Fast and Accurate Hierarchical Solution**", *Proceeding of the 13th Symposium on String Processing and Information Retrieval (SPIRE 2006)*, LNCS Vol. 4209/2006, Springer, pp. 25-36, Glasgow (Scotland - UK), October 11-13, 2006
13. L. Rigutini, E. Di Iorio, M. Ernandes, M. Maggini, "**Semantic labelling of terms using the web**", *Proceedings of the International Workshop on Technologies and Applications on Knowledge Computing on the Web at the 2006 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2006)*, pp.638-641, Hong Kong (China), December 18-22, 2006
14. M. Maggini, S. Melacci, L.Sarti, "**Representation of facial features by Catmull-Rom splines**", *Proceedings of the 12th International Conference on Computer Analysis of Images and Patterns (CAIP07)*, pp. 408-415, Vienna (Austria), August 27-29, 2007
15. A. Pucci, M. Gori, M. Maggini, "**Semi-supervised active learning in graphical domains**", *Proceedings of the 5th International Workshop on Mining and Learning with Graphs (MLG07)*, pp. 187-190, Firenze (Italia), August 1-3, 2007
16. M. Bianchini, E. Di Iorio, M. Maggini, A. Pucci, "**Cyclostationary Neural Networks for Air Pollutant Concentration Prediction**", *Proceedings of the 3rd International Workshop on Artificial Neural Networks in Pattern Recognition (ANNPR 2008)*, Springer LNCS n. 5064, pp. 101-112, Paris (France), July 2-4, 2008
17. S. Melacci, L. Sarti, M. Maggini, M. Bianchini, "**A neural network approach to similarity learning**", *Proceedings of the 3rd International Workshop on Artificial Neural Networks in Pattern Recognition (ANNPR 2008)*, Springer LNCS n. 5064, pp. 133-136, Paris (France), July 2-4, 2008
18. M. Maggini, S. Melacci, L. Sarti, "**Learning similarity measures from pairwise constraints with neural networks**", *Proceedings of the 18th International Conference on Artificial Neural Networks (ICANN 2008)*, Springer LNCS n. 5164, pp. 81-90, Prague (Czech Republic), 3-6 September 2008
19. L. Rigutini, T. Papini, M. Maggini, M. Bianchini, "**A neural network approach for learning object ranking**", *Proceedings of the 18th International Conference on Artificial Neural Networks (ICANN 2008)*, Springer LNCS n. 5164, pp. 899-908, Prague (Czech Republic), 3-6 September 2008
20. I. Castelli, M. Maggini, S. Melacci, L. Sarti, "**Autoassociative Neural Network based Active Shape Models**", *Proceedings of the 8th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2008)*, pp. 1-6, Amsterdam (The Netherlands), 17-19 September 2008

21. L. Rigutini, T. Papini, M. Maggini, F. Scarselli, "**SortNet: learning to rank by a neural-based sorting algorithm**", *Proceedings of the SIGIR 2008 Workshop Learning to Rank for Information Retrieval (LR4IR 2008)*, pp. 1-8, Singapore, 24 July 2008
22. L. Rigutini, M. Diligenti, M. Maggini, M. Gori, "**A Fully Automatic Crossword Generator**", *Proceedings of the Seventh International Conference on Machine Learning and Applications (ICMLA'08)*, pp. 362-367, San Diego (US), December 11-13, 2008
23. S. Melacci, M. Maggini, L. Sarti, "**Semi-supervised Clustering with Similarity Neural Networks**", *Proceedings of the International Joint Conference on Neural Networks (IJCNN09)*, pp. 2065-2072, Atlanta, GA (USA), June 14-19, 2009
24. M. Diligenti, M. Gori, M. Maggini, "**Users, Queries and Documents: A Unified Representation for Web Mining**", *Proceedings of the IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technologies (WI-IAT'09)*, Volume 1, pp. 238-244, Milano (Italia), September 15-18, 2009
25. S. Melacci, M. Maggini, M. Gori, "**Semi-supervised learning with constraints for multi-view object recognition**", *Proceedings of the International Conference on Artificial Neural Networks (ICANN09) Part II*, Springer LNCS 5769, pp. 653-662, Limassol (Cyprus), 14-17 September, 2009, Best student paper award (S. Melacci)
26. M. Diligenti, M. Gori, M. Maggini, L. Rigutini, "**Embedding first-order logic into kernel machines**", *Proceedings of the 20th International Conference on Inductive Logic Programming (ILP 2010)*, Firenze (Italia), June 27-30, 2009
27. M. Diligenti, M. Gori, M. Maggini, L. Rigutini, "**Embedding first-order logic into kernel machines**", *Proceedings of the 19th European Conference on Artificial Intelligence (ECAI 2010)*, IOS Press, pp. 433-438, Lisbon (Portugal), August 16-20, 2010
28. M. Maggini, T. Papini, "**Multitask semi-supervised learning with constraints and constraint exceptions**", *Proceedings of the International Conference on Artificial Neural Networks (ICANN10)*, Springer LNCS 6354, pp. 218-227, Thessaloniki (Greece), September 15-18, 2010