
PERSONAL INFORMATION	<i>Nationality:</i> <i>Date of Birth:</i> <i>E-mail:</i> <i>WWW:</i>	Italian 21 March 1981 mela@dii.unisi.it http://www.dii.unisi.it/~melacci
CURRENT POSITION	Research Assistant at the Department of Information Engineering, University of Siena, Via Roma 56, 53100 – Siena (ITALY), since February 2010.	
RESEARCH INTERESTS	My research activity is focused on Machine Learning and Artificial Intelligence. In particular, my research is addressed towards Regularization Theory, focusing on innovative Regularization Schemes that are defined by prior knowledge on the available data (Learning from Constraints). My interests include Semi-Supervised Learning, Kernel Machines, Similarity Measure Learning, Neural Networks, with application to Face Recognition and Face Analysis.	
EDUCATION	University of Siena, Siena, ITALY Ph.D. in Information Engineering (Advisor: Prof. Marco Maggini), April 2010 Ohio State University, Columbus, Ohio, USA Visiting scholar at the Department of Computer Science and Engineering, under the supervision of Prof. Mikhail Belkin, April - October 2009 University of Florence, Florence, ITALY Qualification exam to become a licensed engineer, January 2007 University of Siena, Siena, ITALY M.S. (cum Laude) , Informatic Engineering (Informatic and Multimedial Systems), September 2006 B.S. , Informatic Engineering (Networks, Informatic and Multimedial Systems), October 2004	
ACADEMIC EXPERIENCE	University of Siena, Siena, ITALY <ul style="list-style-type: none">- Lecturer, faculty of Engineering, course: <i>Laboratorio di Informatica/G</i>, 2009 - today- Teaching Assistant, faculty of Engineering, course: <i>Fondamenti di Informatica I</i>, 2008 - today- Teaching Assistant, faculty of Economy, at <i>Master GINTS</i>, Gestione delle Istituzioni Finanziarie e Nuove Tecnologie dell'Informazione (Managing of Financial Institutions and New Information Technologies), February 2008	
PUBLICATIONS	Journals Melacci, S., Belkin, M.: Training a Laplacian Support Vector Machine in the Primal. The Journal of Machine Learning Research (2011) <i>Accepted</i> Melacci, S., Sarti, L., Maggini, M., Gori, M.: A template-based approach to automatic face enhancement. Pattern Analysis & Applications, ISSN 1433-7541 (Print) 1433-755X (Online), DOI 10.1007/s10044-009-0155-0, Springer-Verlag (2009)	

Conference Proceedings - Springer LNCS-LNAI - Book Chapters

Melacci, S., Gori, M.: Learning with Convex Constraints. Artificial Neural Networks - ICANN 2010 (3). Lecture Notes in Computer Science LNCS 6354, Springer-Verlag (2010), 315–320

Melacci, S., Gori, M., Maggini, M.: Semi-supervised learning with constraints for multi-view object recognition. Artificial Neural Networks - ICANN 2009. Lecture Notes in Computer Science LNCS 5769, Springer-Verlag (2009), 653–662

* *Best Student Paper Award* *

Maggini, M., Melacci, S., Sarti, L.: Learning similarity measures from pairwise constraints with neural networks. Artificial Neural Networks - ICANN 2008. Lecture Notes in Computer Science LNCS 5164, Springer-Verlag (2008), 81–90

Melacci, S., Sarti, L., Maggini, M., Bianchini, M.: A neural network approach to similarity learning. Artificial Neural Networks in Pattern Recognition, ANNPR 2008. Lecture Notes in Artificial Intelligence LNAI 5064, Springer-Verlag (2008), 133–136

Maggini, M., Melacci, S., Sarti, L.: Representation of Facial Features by Catmull-Rom Splines. Computer Analysis of Images and Patterns, CAIP 2007. Lecture Notes in Computer Science LNCS 4673, Springer-Verlag (2007), 408–415

Conferences

Melacci, S., Maggini, M., Sarti, L.: Semi-supervised Clustering using Similarity Neural Networks. In Proceedings of the International Joint Conference on Neural Networks, IEEE (2009), 2065–2072

Castelli, I., Maggini, M., Melacci, S., Sarti, L.: Auto Associative Neural Network based Active Shape Models. In Proceedings of the 8th IEEE International Conference on Automatic Face and Gesture Recognition, IEEE (2008), 1–6

Technical Reports

Maggini, M., Melacci, S., Sarti, L.: Approximation capabilities of Similarity Neural Networks. Department of Information Engineering, University of Siena. TechRep #3, (2008)

ATTENDED
CONFERENCES -
SUMMER SCHOOLS

International Conferences

- International Conference on Artificial Neural Networks
Thessaloniki, GR, September 2010
- International Joint Conference on Neural Networks
Atlanta, GA, USA, June 2009
- International Conference on Artificial Neural Networks
Prague, CZ, September 2008
- International Conference on Computer Analysis of Images and Patterns
Vienna, AU, August 2007

Summer Schools

- Theory of Computational Learning, Machine Learning Summer School, sponsored by NSF (US National Science Foundation), *Chicago*, IL, USA, June 2009
- The Analysis of Patterns (2nd meeting), sponsored by Pascal Network of Excellence, *Bertinoro*, Forlì-Cesena, IT, October 2007

PEER-REVIEWER **Journals**

- IEEE Transactions on Neural Networks, Neurocomputing (Elsevier), Information Sciences (Elsevier), Pattern Analysis & Applications (Springer, International Journal of Neural Systems (World Scientific)

International Conferences

- ACM Conference on Information and Knowledge Management, International Conference on Artificial Neural Networks, International Joint Conferences on Artificial Intelligence, International Symposium on Neural Networks

OTHER

I am the creator and the maintainer of the *FEPS* dataset:

- <http://www.dii.unisi.it/~artist/feeps>.

I am the developer of some applications and libraries that are related to my research activity on face analysis, such as:

- The *V.EN.US. System* (<http://venus.dii.unisi.it>), a visual tool for the automatic enhancement of face pictures.
- The *Active Appearance Model Java Library* (<http://www.dii.unisi.it/~melacci>), a powerful Java implementation of the Active Appearance Model algorithm by means of a 3D software renderer.
- *ART.I.ST*, ARTificial Intelligence caricaturiST (<http://www.dii.unisi.it/~artist>), an automatic caricaturing software.

LANGUAGES

Italian (mother tongue)

English (very good reading/writing skills, good oral skills)
Cambridge PET certification obtained (final score: Pass with Merit)

Updated on: January 2011