

Curriculum vitae

PAOLO AVESANI

Personal Data

Address Center for information Technology
Fondazione Bruno Kessler
Via Sommarive 18
38123 Trento , Italy

Date of birth

Professional Training

1982 - 1988 Computer Science, University of Milan
1998 Visiting Carnegie Mellon University, USA
(prof. Manuela Veloso)
2008 Advanced School on Neuroimaging, UCLA, USA
2010 Autumn School on Advanced Scientific Programming
in Python, Trento, Italy
2011 Visiting University of Haifa, Israel
(prof. Larry Manevitz)
2012 Summer School on Domain Adaptation in Image
Analysis, DTU, Copenhagen, DK
2014 Visiting University of Sherbrooke, Canada
(prof. Maxime Descoteaux)
2016 Visiting Indiana University, USA
(prof. Franco Pestilli)

Professional Career/Research Experience

1990-2006 IRST, Istituto per la Ricerca Scientifica e Tecnologica
2003- 2007 Head of research laboratory on Adaptive Systems
2006-2009 Scientific coordinator of FP-VI Europ. Project n. 34744
2007 - today Center for Information Technology
FBK, Fondazione Bruno Kessler
2007 - today CIMeC, Center for Mind/Brain Sciences,
University of Trento
2007 – today Head of the Neuroinformatics Laboratory (NILab)
2013 – today Co-Principal Investigator of a large grant (more than 2
million euro) on brain mechanisms of attention
1990 – today over 120 publications mainly in the field of computer
science (h-index 24)

Main areas of research:

- Machine Learning, Pattern Recognition, Multivariate Analysis
- Brain Decoding, Brain Mapping, Brain Connectivity

Honors including present membership or leadership in relevant organizations or advisory groups:

- General Chair PRNI2016 (Pattern Recognition in Neuroimaging)
- Area Chair NIPS 2015
- Member of IEEE
- Member of MICCAI
- Member of OHBM

List of 10 publications over the last five years

- N. Sharmin, E. Olivetti, P. Avesani, Alignment of Tractograms as Linear Assignment Problem. Computational Diffusion MRI, Springer, 2016 (to appear).
- D. Porro, E. Olivetti, N. Sharmin, T. B. Nguyen, E. Garyfallidis, P. Avesani, Tractome: a visual data mining tool for brain connectivity analysis. Journal of Data Mining and Knowledge Discovery, Volume 29 Issue 5, pp 1258-1279, 2015. (DOI:10.1007/s10618-015-0408-z)
- P. Avesani, B. Ngueyn, N. Agarwal, M. Bromberg, L. Shah, E. Olivetti, Tractography Mapping for Dissimilarity Space across Subjects. Pattern Recognition in Neuroimaging, IEEE, pp 13-16, 2015. (DOI 10.1109/PRNI.2015.24)
- S. Vega Pons, P. Avesani, On Pruning the Search Space for Clustering Ensemble Problems. Neurocomputing, Volume 150, pp 481-489, 2015. (DOI:10.1016/j.neucom.2014.09.041)
- P. Avesani, H. Hazan, E. Koillis, L.M. Manevitz, D. Sona, Non-parametric temporal modeling of the hemodynamic response function via a liquid state machine. Neural Networks, Volume 70, pp 61–73, 2015. (DOI: 10.1016/j.neunet.2015.04.009)
- E. Olivetti, S. Greiner, P. Avesani, Statistical independence for the evaluation of classifier-based diagnosis. Brain Informatics, Volume 2, Issue 1, pp 13-19, 2015. (DOI: 10.1007/s40708-014-0007-6)
- M. Abadi, R. Subramanian, M. Kia, P. Avesani, I. Patras, N. Sebe, DECAF: MEG-Based Multimodal Database for Decoding Affective Physiological Responses, IEEE Transactions on Affective Computing, Volume 6, Issue 3, pp 209-222, 2015. (DOI:10.1109/TAFFC.2015.2392932)
- V. Iacovella, P. Avesani, G. Miceli, Disentanglement of Session and Plasticity Effects in Longitudinal fMRI Studies. Machine Learning in Medical Images, LNCS Volume 8184, pp 155-162, 2013. (DOI: 10.1007/978-3-319-02267-3_20)
- E. Fouragnan, G. Chierchia, S. Greiner, R Neveu, P. Avesani, G. Coricelli, Reputational Priors Magnify Striatal Responses to Violations of Trust. Journal of Neuroscience, Volume 33, Issue 8, pp 3602-3611, 2013. (DOI:10.1523/JNEUROSCI.3086-12.2013)
- E. Olivetti, S. Greiner, P. Avesani, ADHD diagnosis from multiple data sources with batch effects. Frontiers in Systems Neuroscience, Volume 6, Issue 70, 2012. (DOI:10.3389/fnsys.2012.00070)