

Selected publications on *international journals*

- G Pasquale, C Ciliberto, F Odone, L Rosasco, L Natale "Are we done with object recognition? the icub robot's perspective" *Robotics and Autonomous Systems* 112, 260-281, 2019
- D Malafronte, E De Vito, F. Odone "Space–Time Signal Analysis and the 3D Shearlet Transform" *Journal of Mathematical Imaging and Vision* ISSN 0924-9907, 2018, 1-17
- F. Bartolucci, F. De Mari, E. De Vito, F. Odone "Shearlets as Multi-scale Radon Transforms", *Sampling Theory in Signal and Image Processing*. In press
- D Malafronte, E De Vito, F. Odone "Local Spatio-Temporal Representation using the 3D Shearlet Transform *Sampling Theory in Signal and Image Processing*. Under review
- N Noceti, L Zini, F Odone "A multi-camera system for damage and tampering detection in a postal security framework" *EURASIP Journal on Image and Video Processing* 2018 (1), 11
- F Bartolucci, F De Mari, E De Vito, F Odone "The radon transform intertwines wavelets and shearlets" *Applied and Computational Harmonic Analysis*, 2018
- A. Rudi, E. De Vito, A. Verri, F. Odone "Regularized Kernel Algorithms for Support Estimation" *Frontiers Appl. Math. Stat.*, 08 November (2017)
- J Sosa-García, F Odone "Hands On Visual Recognition for Visually Impaired Users" *ACM Transactions on Accessible Computing (TACCESS)* 10 (3), 8, 2017
- N Noceti, F Odone, A Sciutti, G Sandini. "Exploring biological motion regularities of human actions: a new perspective on video analysis" *ACM Transactions on Applied Perception (TAP)* 14 (3), 21,2017
- A Vignolo, N Noceti, F Rea, A Sciutti, F Odone, G Sandini "Detecting biological motion for human–robot interaction: A link between perception and action" *Frontiers in Robotics and AI* 4, 14, 2017
- MA Duval-Poo, N Noceti, F Odone, E De Vito "Scale invariant and noise robust interest points with shearlets" *IEEE Transactions on Image Processing* 26 (6), 2853-2867, 2017
- SR Fanello, C Ciliberto, N Noceti, G Metta, F Odone "Visual recognition for humanoid robots *Robotics and Autonomous Systems*" 91, 151-168, 2017
- L Zini, F. Odone "Portable and fast text detection" *Machine Vision and Applications*, 1-15, 2016
- M. Chessa, N. Noceti, F. Odone, F. Solari, J. Sosa-Garcia, L. Zini "An integrated artificial vision framework for assisting visually impaired users" *Computer Vision and Image Understanding*, 149, 209-228, 2016
- S. Piana, A Staglianò, F Odone, A Camurri Adaptive Body Gesture Representation for Automatic Emotion Recognition. *THE ACM TRANSACTIONS ON INTERACTIVE INTELLIGENT SYSTEMS* 6(1):1-31 · MARCH 2016
- M. Duval Poo, F. Odone, E De Vito "Edges and corners with Shearlets" *IEEE Transactions on Image Processing*, 10/2015; 24(11).DOI:10.1109/TIP.2015.2451175
- A Stagliano, N. Noceti, A. Verri, F. Odone "Online space-variant background modeling with sparse coding" *IEEE Transactions on Image Processing*, 04/2015; 24(8). DOI:10.1109/TIP.2015.2421435
- G. Sandini, N. Noceti, A. Vignolo, A. Sciutti, F. Rea, A Verri, F Odone "Computational model of biological motion detection: a path toward view-invariant action understanding" *Journal of Vision* 15(2) 497, 2015

- L. Zini; N. Noceti; G. Fusco; F. Odone "Structured multi-class feature selection with an application to face recognition" *Pattern Recognition Letters*, 55, pp. 35-41 2015
- N. Noceti, F. Odone "Human in groups: the importance of contextual information for collective activities classification" *Pattern Recognition* 47, pp 3535-3551, 2014
- L. Zini; F. Odone; A. Cavallaro Multi-View Matching of Articulated Objects *IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY* - 24(11) pp 1920-1934, 2014
- Alessandro Rudi, Ernesto De Vito, Francesca Odone. Geometrical and computational aspects of Spectral Support Estimation for novelty detection . *PATTERN RECOGNITION LETTERS*, vol. 36, p. 107-116, ISSN: 0167-8655
- Sean Ryan Fanello, Ilaria Gori, Giorgio Metta, Francesca Odone (2013). Keep It Simple And Sparse: Real-Time Action Recognition . *JOURNAL OF MACHINE LEARNING RESEARCH*, vol. 14, p. 2617-2640,
- L. Zini, A. Cavallaro, F. Odone (2013). Action-based multi-camera synchronization *IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN CIRCUITS AND SYSTEMS*, 3(2), pp 165-174.
- N. Noceti, F. Odone (2012). Learning common behaviors from large sets of unlabeled temporal series. *IMAGE AND VISION COMPUTING*, vol. 30, p. 875--895, ISSN: 0262-8856, doi: 10.1016/j.imavis.2012.07.005.
- Castellini C, Tommasi T, Noceti N, Odone F, Caputo B (2011). Using object affordances to improve object recognition. *IEEE TRANSACTIONS ON AUTONOMOUS MENTAL DEVELOPMENT*, vol. 3, p. 207-215, ISSN: 1943-0604
- DESTRERO A, DE MOL C, Odone F, VERRI A (2009). A Regularized Framework for Feature Selection in Face Detection and Authentication. *INTERNATIONAL JOURNAL OF COMPUTER VISION*, vol. 83, p. 164-177, ISSN: 0920-5691
- Castellini C, Tommasi T, Noceti N, Odone F, Caputo B (2011). Using object affordances to improve object recognition. *IEEE TRANSACTIONS ON AUTONOMOUS MENTAL DEVELOPMENT*, vol. 3, p. 207-215, ISSN: 1943-0604
- DESTRERO A, MOSCI S, DE MOL C, VERRI A, Odone F (2009). Feature Selection for High-Dimensional Data. *COMPUTATIONAL MANAGEMENT SCIENCE*, vol. 6, p. 25-40, ISSN: 1619-697X
- NOCETI N, DELPONTE E, F. Odone (2009). Spatio-temporal constraints for on-line 3D object recognition in videos. *COMPUTER VISION AND IMAGE UNDERSTANDING*, vol. 113, p. 198-209, ISSN: 1077-3142, doi: 10.1016/j.cviu.2009.06.006
- LO GERFO L., ROSASCO L., Odone F, DE VITO E, VERRI A (2008). Spectral Algorithms for Supervised Learning. *NEURAL COMPUTATION*, vol. 20(7), p. 1873-1897, ISSN: 0899-7667, doi: .10.1162/neco.2008.05-07
- DELPONTE E, ISGRO' F, Odone F, VERRI A (2006). SVD-Matching Using SIFT Features. *GRAPHICAL MODELS*, vol. 68, p. 415-421, ISSN: 1524-0703
- Odone F, BARLA A, VERRI A (2005). Building Kernels from Binary Strings for Image Matching. *IEEE TRANSACTIONS ON IMAGE PROCESSING*, vol. 14, p. 169-180, ISSN: 1057-7149 [Valutazione VQR 1.0]
- E. DE VITO, L. ROSASCO, A. CAPONNETTO, U. DE GIOVANNINI, F. Odone (2005). Learning from Examples as an Inverse Problem. *JOURNAL OF MACHINE LEARNING RESEARCH*, vol. 6, p. 883-904, ISSN: 1532
- F. Odone, A. FUSIELLO, E. TRUCCO (2002). A layered representation of a video shot with mosaicing.. *PATTERN ANALYSIS AND APPLICATIONS*, vol. 5, p. 295-305, ISSN: 1433-7541