SCIENTIFIC ACTIVITY

FILIPPO LUIGI MARIA MILOTTA, PHD

May, 19 2018

1 PUBLICATIONS LIST

1.1 Journal

J05 - Milotta, F.L.M. 2018, **Munsell Color Specification using ARCA (Automatic Recognition of Color for Archaeology)**, *Journal on Computing and Cultural Heritage*, 2018 (Accepted). (co-authored with D. Tanasi, F. Stanco, A.M. Gueli)

J04 – Milotta, F.L.M. 2018, **Breast Shape Analysis with Curvature Estimates and PCA for Cosmetic and Reconstructive Surgery of the Breast**, *Aesthetic Surgery Journal*, 2018. (co-authored with G. Catanuto, W. Taher, N. Rocco, F. Catalano, D. Allegra, F. Stanco, G. Gallo, M.B. Nava)

J03 – Milotta, F.L.M. 2017, **Virtual anastylosis of Greek sculpture as museum policy for public outreach and cognitive accessibility**. *Journal of Electronic Imaging*, 2017, 26.1: 011025-011025. (co-authored with F. Stanco, D. Tanasi, D. Allegra, G. Lamagna, G. Monterosso)

J02 – Milotta F.L.M. 2017, **Integrated three-dimensional models for noninvasive monitoring and valorization of the Morgantina silver treasure (Sicily)**. *Journal of Electronic Imaging*, 2017, 26.1: 011015-011015. (co-authored with M.F. Alberghina, F. Alberghina, D. Allegra, F. Di Paola, L. Maniscalco, G. Milazzo, L. Pellegrino, S. Schiavone, F. Stanco)

J01 – Milotta F.L.M. 2016, **Tracking error in digitized analog video: automatic detection and correction**. *Multimedia Tools and Applications*, 2016, 75.7: 3733-3746. (co-authored with F. Stanco, D. Allegra)

1.2 Conference Proceedings

C14 – Milotta F.L.M. 2017, **The Social Picture: Advanced Image Analysis Applications**, in proceedings of *Smart Tools and Applications in Graphics (STAG)*, 2017. (co-authored with M. Bellocchi, S. Battiato)

C13 – Milotta F.L.M. 2017, **A digital approach for the study of Roman signacula from Syracuse, Sicily**, in proceedings of *Smart Tools and Applications in Graphics (STAG)*, 2017. (co-authored with D. Tanasi, I. Gradante, F. Stanco, H. Kaplan)

C12 – Milotta F.L.M. 2017, **ARCA (Automatic Recognition of Color for Archaeology): a Desktop Application for Munsell Estimation**, in proceedings of the *19th International Conference on Image Analysis and Processing (ICIAP)*, 2017. (co-authored with F. Stanco, D. Tanasi)

C11 – Milotta F.L.M. 2017, **Description of Breast Morphology through Bag of Normals Representation**, in proceedings of the *19th International Conference on Image Analysis and Processing (ICIAP)*, 2017. (co-authored with D. Allegra, D. Sinitò, F. Stanco, G. Gallo, W. Taher, G. Catanuto)

C10 – Milotta F.L.M. 2017, **Organizing Videos Streams for Clustering and Estimation of Popular Scenes**, in proceedings of the *19th International Conference on Image Analysis and Processing (ICIAP)*, 2017. (co-authored with S. Battiato, G.M. Farinella, A. Ortis, F. Stanco, V. D'Amico, L. Addesso, G. Torrisi)

C09 – Milotta F.L.M. 2016, **3D Digital Imaging for Knowledge Dissemination of Greek Archaic Statuary**, in G. Pintore, F. Stanco (eds), *STAG: Smart Tools and Apps in computer Graphics, Eurographics Proceedings*, Genova 3-4 October 2016, The Eurographics Association, pp. 133-141 (co-authored with F. Stanco, D. Allegra, D. Tanasi)

C08 – Milotta F.L.M. 2016, **Low cost handheld 3D scanning for architectural elements acquisition**, in G. Pintore, F. Stanco (eds), *STAG: Smart Tools and Apps in computer Graphics, Eurographics Proceedings*, Genova 3-4 October 2016, The Eurographics Association, pp. 127-131. (co-authored with D. Allegra, G. Gallo, L. Inzerillo, M. Lombardo, C. Santagati, F. Stanco)

C07 – Milotta F.L.M. 2016, **Breast Shape Parametrization Through Planar Projections**. In: *International Conference on Advanced Concepts for Intelligent Vision Systems*. Springer International Publishing, 2016. p. 135-146. (co-authored with D. Allegra, G. Catanuto, G. Gallo, Y. Gholizade Atani, F. Stanco)

C06 – Milotta F.L.M. 2016, **The Social Picture**. In: *Proceedings of the 2016 ACM on International Conference on Multimedia Retrieval*. ACM, 2016. p. 397-400. (co-authored with S. Battiato, G.M. Farinella, A. Ortis, L. Addesso, A. Casella, V. D'Amico, G. Torrisi)

C05 – Milotta, F.L.M. 2016, **RECfusion: Automatic Scene Clustering and Tracking in Videos from Multiple Sources**. *Electronic Imaging, 2016*, 2016.7: 1-6. (co-authored with S. Battiato, F. Stanco, V. D'Amico, G. Torrisi, L. Addesso)

C04 – Milotta F.L.M. 2015, **Archaeometric characterization and 3D survey: new perspectives for monitoring and valorisation of Morgantina silver Treasure (Sicily)**. In: In Proceedings of *1st International Conference on Metrology for Archaeology*. 2015. (co-authored with M.F. Alberghina, F. Alberghina, D. Allegra, F. Di Paola, L. Maniscalco, S. Schiavone, F. Stanco)

C03 – Milotta F.L.M. 2015, **Virtual unrolling using X-ray computed tomography**. In: *Signal Processing Conference (EUSIPCO), 2015 23rd European*. Institute of Electrical and Electronic Engineers (IEEE), 2015. p. 2864-2868. (co-authored with D. Allegra, E. Ciliberto, P. Ciliberto, G. Petrillo, F. Stanco, C. Trombatore)

C02 – Milotta F.L.M. 2015, **An electronic travel aid to assist blind and visually impaired people to avoid obstacles**. In: *International Conference on Computer Analysis of Images and Patterns*. Springer International Publishing, 2015. p. 604-615. (co-authored with D. Allegra, F. Stanco, G.M. Farinella)

C01 – Milotta F.L.M. 2013, **Detection and correction of Mistracking in digitalized analog video**. In: *International Conference on Image Analysis and Processing*. Springer Berlin Heidelberg, 2013. p. 218-227. (co-authored with F. Stanco, D. Allegra)

1.3 Abstract

A01 - Milotta F.L.M. 2018, **Automatic digital method for Munsell Color Specification in Archaeology and Cultural Heritage Studies**. In: *Munsell Centennial Color Symposium, 2018*. (co-authored with D. Tanasi, F. Stanco, A.M. Gueli, S. Pasquale)

1.4 Chapter in book

B03 – Milotta F.L.M. in press, **Virtual Restoration Techniques of Antique Photographs**, in M.F. Ali, E. Ciliberto, M. Ali (eds.), *Photographic Conservation*. (co-authored with F. Stanco, G. Ramponi, S. Carrato, D. Allegra)

B02 – Milotta F.L.M. 2015, **Hand Held 3D Scanning for Cultural Heritage: Experimenting Low Cost Structure Sensor Scan**. In: *Handbook of Research on Emerging Technologies for Architectural and Archaeological Heritage*. IGI Global, 2017. p. 475-499. (co-authored with D. Allegra, G. Gallo, L. Inzerillo, M. Lombardo, C. Santagati, F. Stanco)

B01 – Milotta F.L.M. 2015, **Un approccio multidisciplinare per lo studio di un Tesoro unico al mondo. Gli argenti della casa di Eupolemo a Morgantina**, in L. Maniscalco (eds.), *Morgantina duemilaquindici. La ricerca archeologica a sessant'anni dall'avvio degli scavi*. (co-authored with F. Stanco, G. Ramponi, S. Carrato, D. Allegra)

1.5 Patent

P01 – Milotta F.L.M. 2017, (provisional) **Automatic Digital Method for Classification of Colors in Munsell Color System**, which was filed with the *United States Patent and Trademark Office* on April 19, 2017, and assigned Serial No. 62/487,178.(co-authored with F. Stanco, D. Tanasi)

2 PEER–REVIEWS LIST

2.1 Reviewer for Journal

- Journal on Computers & Graphics (CAG)
- Journal on Electronic Imaging (JEI)
- Journal on Computing and Cultural Heritage (JCCH)
- Multimedia Tools and Applications (MTA)
- Journal of Computer Vision and Image Understanding (CVIU)

2.2 Reviewer for Conferences

- International Conference on Pattern Recognition (ICPR)
- International Conference on Image Analysis and Processing (ICIAP)
- Smart Tools and Applications in Graphics (STAG)
- International Conference on Computer Vision Theory and Applications (VISAPP)
- European Conference on Computer Vision (ECCV)

- Assistive Computer Vision and Robotics (ACVR)

- IEEE International Conference on Networking, Sensing and Control (ICNSC)

2.3 Thesis Supervising

- Thesis of Alessandro Nicolosi: *[IT]* "Visualizzatore 3D degli argenti di Morgantina" (*[EN]* "3D Viewer of Morgantina Silver Treasure"). Supervisor: Prof. Filippo Stanco; co-supervisors: Dott. Dario Allegra e Dott. Filippo L.M. Milotta. 26 novembre 2015.

- Thesis of Giuseppe Leotta: *[IT]* "Algoritmi di watermarking per l'autenticitá e l'integritá dei media digitali e la protezione del copyright" (*[EN]* "Watermarking algorithms for authenticity and intergrity of digital media and copyright protection"). Supervisor: Prof. Filippo Stanco; co-supervisor: Dott. Filippo L.M. Milotta. 9 marzo 2016.

- Thesis of Mirko R. Aiello: *[IT]* "Fotogrammetria e sviluppi applicativi: 3DCSI software per l'esplorazione, il marking e la reportistica automatica delle scene del crimine" (*[EN]* "Photogrammetry and applications: 3DCSI, a software for exploration, marking and automatic report of crime scenes"). Supervisor: Prof. Sebastiano Battiato; co-supervisor: Dott. Filippo L.M. Milotta. 8 marzo 2017.

- Thesis of Islam Seddek: "Digital Documentation And Preservation Of Antique Books". Supervisor: Prof. Filippo Stanco; co-supervisor: Prof.ssa Simona Inserra e Dott. Filippo L.M. Milotta. 20 marzo 2017.

- 2 other thesis supervising is ongoing.

3 SUMMER SCHOOLS

- IEEE – Eurasip Summer School on Signal Processing (S3P – 2016): "Semantics in Media". 4/9/2016 – 10/9/2016.

- Medical Imaging Summer School (MISS '16): "Medical Imaging meets Machine Learning". 31/7/2016 – 6/8/2016 (attended as student and staff member)

- International Computer Vision Summer School (ICVSS '16): "Computer Vision: What Happens Next?". 17/7/2016 – 23/7/2016 (attended as student and staff member)

- International Computer Vision Summer School (ICVSS '15): "Learning to see". 12/7/2015 – 18/7/2015 (attended as student and staff member)

- Medical Imaging Summer School (MISS '14): "Medical Imaging meets Computer Vision". 28/7/2014 – 1/8/2014 (attended as student and staff member)

- International Computer Vision Summer School (ICVSS '14): "From Fundamentals to Applications". 13/7/2014 – 19/7/2014 (attended as student and staff member)

- International Computer Vision Summer School (ICVSS '12): "3R's of Computer Vision: Recognition, Registration, Reconstruction". 15/7/2012 – 21/7/2012 (attended as student and staff member)