

## **GENERAL INFORMATION**

NAME: Marco  
SURNAME: La Cascia  
BIRTHDATE: 03/10/1969  
CURRENT EMPLOYER: University of Palermo (Italy)  
DEPARTMENT: Department of Engineering  
ROLE: Full Professor

Web page: <https://pure.unipa.it/it/persons/marco-la-cascia-4>  
Scopus ID: 6602545901; <https://www.scopus.com/authid/detail.uri?authorId=6602545901>  
ORCID ID: 0000-0002-8766-6395; <http://orcid.org/0000-0002-8766-6395>  
Google Scholar: <https://scholar.google.it/citations?user=wQv9q3cAAAAJ&hl=en>

## **EDUCATION**

1998 - PhD in Computer Engineering - Università degli Studi di Palermo, Italy  
1995 - MS in Electrical Engineering - Summa Cum Laude, Università degli Studi di Palermo, Italy

## **PROFESSIONAL APPOINTMENTS**

2018 – Full Professor – University of Palermo, Palermo, Italy  
2013 - National Scientific Qualification as Full Professor in the area 09/H1 - Information Processing (Abilitazione Scientifica Nazionale - Prima Fascia 09/H1)  
2013 - 2019 Program Coordinator of Computer and Telecommunication Engineering Degrees at University of Palermo.  
2005 - 2017 Associate Professor - DICGIM - University of Palermo, Palermo, Italy  
2000 - 2004 Assistant Professor - Computer Engineering Department - University of Palermo, Palermo, Italy  
1999 - 2000 Senior Software Engineer at Offnet S.p.A., Rome, Italy  
1998 - 1999 Post-doctoral Researcher within the Image and Video Computing (IVC) Group, Boston University, MA, USA  
1996 - 1997 Visiting Researcher within the Image and Video Computing (IVC) Group, Boston University, MA, USA  
1995 - 1998 PhD Student at University of Palermo, Palermo, Italy

## **TEACHING**

2016 - 2021, Object Oriented Computer Programming in Java;  
2010 - 2021, Web Systems Design and Architecture (HTML, CSS, XML, JS, JavaEE);  
2020 - 2021, Logic and computer design fundamentals;  
2001 - 2015, Object Oriented Computer Programming in C++;  
2005 - 2010, Computer Vision;  
2001 - 2004, Database and Information Systems;

## **PROFESSIONAL SERVICE AND SOCIETIES:**

Program Committee of:  
International Conference on Pattern Recognition (ICPR), 2020.  
International Conference on pattern recognition Applications and Methods (ICPRAM), 2012-2020  
IEEE International Conference on Semantic Computing (ICSC), 2013-2020  
International Conference on Advances in Multimedia (MMEDIA), 2017-2019  
International Conference on Network-Based Information Systems (NBIS), 2013  
International Workshop on Motion Capture and Classification, 2014  
International Workshop on Recent Advances in Digital Security: Biometrics and Forensics (BioFor), 2015

Reviewer of the following international journals:

IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI), IEEE Trans. on Image Processing, IEEE Trans. on Knowledge and Data Engineering (TKDE), IEEE Trans. on Circuits and Systems for Video Technology, IEEE Trans. on Systems, Man, and Cybernetics, IEEE Trans. on Affective Computing, Computer Vision and Image Understanding (CVIU), Multimedia Tools and Applications (MTAP), SPIE Optical Engineering, SPIE Journal of Electronic Imaging, IET Image Processing, Computer Graphics Forum, International Journal of Machine Consciousness, Int. Journal of Machine Learning and Cybernetics

Reviewer of the following international conferences/workshops:

AI\*IA, AVSS, ACVR, BICA, BioFor, CAMP, CVPR, ICCV, IbPRIA, ICIAP, ICME, ICPR, ICPRAM, ICSC, ISCC, SCIA, SSCI, VSSN.

Prof. La Cascia is member of IAPR.

## **RESEARCH INTERESTS**

Computer Vision, Pattern Recognition, and Multimedia

Application domains: content based image retrieval, face processing and face expression recognition, head tracking, action recognition and gesture modeling, object detection and tracking, surveillance and mobile computer vision based applications

## **SUPERVISION OF STUDENTS AND LEADING OF RESEARCH GROUP**

Prof. La Cascia has supervised more than 50 students during their MS thesis, 4 Ph.D. students and 6 post-doctoral fellows. Together with Prof. E. Ardizzone, he currently leads the Computer Vision and Image Processing (CVIP) Group at University of Palermo.

## **RESEARCH GRANTS**

Prof. La Cascia has participated to more than 10 research projects in recent years. He has been Associated Investigator in the following projects:

- “FREE SURF: FREE SURveillance in a pRivacy-respectFul way”, PRIN 2006, together with University of Modena and Reggio Emilia (PI) and University of Florence; (UniPA unit - € 68.571)
- “ASIC - Applicazioni e Servizi Innovativi di Comunicazione Voce/Video/Dati”, MIUR DM 449/Ric. del 10/03/2006 Settore 11 “ICT e componentistica elettronica” ; (UniPA unit - € 479.600)
- “SINTESYS: Security and INTElligence SYStem”, PON R&C 2007 – 2013; (UniPA unit - € 737.598)
- “NEPTIS: ICT-based solutions for augmented fruition and exploration of cultural heritage”, PON R&C 2007 – 2013; (UniPA unit - € 1.000.000)
- “IDEHA: Innovation for data processing in cultural heritage“, PNR 2015-2020; (UniPA unit - € 1.100.000)

## **INTERNATIONAL AND NATIONAL RESEARCH COLLABORATIONS**

1996 - collaboration with Prof. S. Sclaroff at Boston University on head tracking, content-based video and image retrieval, multi-camera network, gesture modeling;

2000 - collaboration with researchers (Dr. F. Vella, Dr. G. Pilato, Dr. A. Augello) at CNR-ICAR of Palermo on multimedia database and document processing;

2002 - 2003, collaboration with researchers (Dr. S. Curti, Dr. S. Battiato) at ST Microelectronics, Catania, Italy on digital still camera algorithms;

2007 - 2008, collaboration with researchers (Prof. R. Cucchiara, Prof. A. Prati) at University of Modena and Reggio Emilia, Italy on video-surveillance and camera networks;

## **BIBLIOMETRIC INDICATORS**

He is author of about 100 papers in international Journal or conference venues.

His Google scholar based bibliometric scores in August 2021 are: h-index: 28, number of citations: ~4500.

## PUBLICATIONS:

### JOURNAL

1. CRUCIATA G., LO PRESTI L., LA CASCIA M. (2021). On the use of Deep Reinforcement Learning for Visual Tracking: a Survey, IEEE Access (in press, early-access available), DOI 10.1109/ACCESS.2021.3108623.
2. MAZZOLA G., LO PRESTI L., ARDIZZONE E., LA CASCIA M. (2021). A Dataset of Annotated Omnidirectional Videos for Distancing Applications, Journal of Imaging, 7(8); DOI 10.3390/jimaging7080158.
3. CARPITELLA S., CERTA A., IZQUIERDO J., LA CASCIA M. (2021). Multi-criteria decision-making approach for modular enterprise resource planning sorting problems, Journal of Multi-Criteria Decision Analysis, DOI 10.1002/mcda.1745.
4. CARPITELLA S., MZOUGI I., BENITEZ J., CARPITELLA F., CERTA A., IZQUIERDO J., LA CASCIA M. (2021). A risk evaluation framework for the best maintenance strategy: The case of a marine salt manufacture firm, Reliability Engineering and System Safety, DOI 10.1016/j.res.2020.107265.
5. AIELLO, G., BENITEZ, J., CARPITELLA, S., CERTA, A., ENEA, M., IZQUIERDO, J., LA CASCIA, M. (2020). A decision support system to assure high-performance maintenance service, Journal of Quality in Maintenance Engineering, DOI 10.1108/JQME-11-2019-0107.
6. MONTELEONE V., LO PRESTI L., LA CASCIA M., GAUTHIER S., XAVIER J., ZAOUI M., BERTHOZ A., COHEN D., CHETOUANI M., ANZALONE S. (2020). Semi-automatic behavioral change-point detection: a case study analyzing children interactions with a social agent, IEEE TRANSACTIONS ON COGNITIVE AND DEVELOPMENTAL SYSTEMS (in press, early-access available), DOI 10.1109/TCDS.2020.3023196.
7. DINDO H., LO PRESTI L., LA CASCIA M., CHELLA A., DEDIC R. (2017). Hankelet-based Action Classification for Motor Intention Recognition, Robotics and Autonomous Systems, Vol. 94, pp. 120-133.
8. LO PRESTI L., LA CASCIA M. (2016). Boosting Hankel Matrices for Face Emotion Recognition and Pain Detection, Elsevier Computer Vision and Image Understanding.
9. LO PRESTI L., LA CASCIA M., SCLAROFF S., CAMPS O. (2015). Hankelet-based Dynamical Systems Modeling for 3D Action Recognition, Elsevier Journal on Image and Video Computing
10. LO PRESTI L., LA CASCIA M. (2015). 3D Skeleton-based Human Action Classification: a Survey, Elsevier Pattern Recognition.
11. LO PRESTI L., LA CASCIA M. (2014). Concurrent Photo Sequence Organization. MULTIMEDIA TOOLS AND APPLICATIONS, ISSN: 13807501, vol. 68(3), Feb. 2014, pp. 777-803, DOI: 10.1007/s11042-012-1079-z
12. DE PAOLA A., LA CASCIA M., LO RE G., MORANA M., ORTOLANI M. (2013). Mimicking biological mechanisms for sensory information fusion. BIOLOGICALLY INSPIRED COGNITIVE ARCHITECTURES, ISSN: 2212-683X, Vol. 3, Jan. 2013, pp. 27-38, DOI: 10.1016/j.bica.2012.09.002
13. LO PRESTI L., MORANA M., LA CASCIA M. (2012). A data association approach to detect and organize people in personal photo collections. MULTIMEDIA TOOLS AND APPLICATIONS, vol. 61, no. 2; pp. 321-352, ISSN: 1380-7501, DOI 10.1007/s11042-011-0839-5
14. LO PRESTI L., LA CASCIA M. (2012). An On-line Learning Method for Face Association in Personal Photo Collection. Elsevier Image and Vision Computing (IMAVIS), vol. 30(4-5); pp. 306-316, DOI 10.1016/j.imavis.2012.02.011
15. LO PRESTI L., SCLAROFF S., LA CASCIA M. (2012). Path Modeling and Retrieval in Distributed Video Surveillance Databases. IEEE TRANSACTIONS ON MULTIMEDIA, vol. 14(2); pp. 346-360, DOI 10.1109/TMM.2011.2173323
16. LA CASCIA M., MORANA M., VELLA F. (2010). Automatic Image Representation and Clustering on Mobile Devices. In: Journal of Mobile Multimedia, vol. 6(2); pp. 158-169, ISSN: 1550-4646
17. ARDIZZONE E., LA CASCIA M., MORANA M., VELLA F. (2009). Clustering techniques for personal photo album management. In: SPIE Journal of Electronic Imaging, vol. 18(4); pp. 1-12, ISSN: 1017-9909
18. ARDIZZONE E., CAPRA A., LA CASCIA M. (2000). Using Temporal Texture for Content-Based Video Retrieval. JOURNAL OF VISUAL LANGUAGES AND COMPUTING, vol. 11(3); pp. 241-252, ISSN: 1045-926X
19. LA CASCIA M., SCLAROFF S., ATHITSOS V. (2000). Fast, Reliable Head Tracking under Varying Illumination: An Approach Based on Robust Registration of Texture-Mapped 3D Models. IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, vol. 22(4); pp. 322-336, ISSN: 0162-8828
20. SCLAROFF S., LA CASCIA M., TAYCHER L., SETHI S. (1999). Unifying Textual and Visual Cues for Content-Based Image Retrieval on the World Wide Web. COMPUTER VISION AND IMAGE UNDERSTANDING, vol. 75(1); pp. 86-98, ISSN: 1077-3142
21. ARDIZZONE E., LA CASCIA M. (1997). Automatic Video Database Indexing and Retrieval. MULTIMEDIA TOOLS AND APPLICATIONS, vol. 4; pp. 29-56, ISSN: 1380-7501

### PATENTS

1. CURTI S, BATTIATO S, SCORDATO E, TORTORA M, ARDIZZONE E, LA CASCIA M. (2004). Method for classifying a digital image. US2005129316. ST Microelectronics

2. CURTI S, BATTIATO S, SCORDATO E, TORTORA M, ARDIZZONE E, LA CASCIA M. (2004). Method for classifying a digital image. EP 1 507 232 A2. ST Microelectronics
3. CURTI S, BATTIATO S, SCORDATO E, TORTORA M, ARDIZZONE E, LA CASCIA M. (2004). Method of obtaining a Depth Map from a digital Image. EP 1 498 847 A2. ST Microelectronics

#### **BOOK CHAPTERS**

1. GRECO L, LO PRESTI L, AUGELLO A, LO RE G, LA CASCIA M, GAGLIO S (2012). A Decisional Multi-Agent Framework for Automatic Supply Chain Arrangement. In: Cristian Lai , Giovanni Semeraro, Eloisa Vargiu. *New Challenges in Distributed Information Filtering and Retrieval*. vol. 439, p. 215-232, BERLIN:Springer, doi: 10.1007/978-3-642-31546-6
2. FABIANO F., GENTILE A., LA CASCIA M., PIRRONE R. (2007). Biologically Inspired Vision Architectures: a Software/Hardware Perspective. In: GORO OBINATA AND ASHISH DUTTA. *Vision Systems: Applications*. pp. 443-458, VIENNA: I-tech, ISBN/ISSN: 978-3-902613-01-1
3. ARDIZZONE E., LA CASCIA M. (2004). Temporal segmentation of video data. In: BORKO FURHT, OGE MARQUES. *Handbook of Video Databases: Design and Applications*. pp. 149-176, BOCA RATON, FL: CRC Press, ISBN/ISSN: 0-8493-7006-X
4. SCLAROFF S., LA CASCIA M., SETHI S., TAYCHER L. (2001). Mix and Match Features: Relevance Feedback and Combined Similarity Metrics. In: M. LEW. *Principles of visual information retrieval*. pp. 259-277, LONDON: Springer-Verlag, ISBN/ISSN: 1-85233-381-2

#### **CONFERENCE PROCEEDINGS**

1. SIINO M., LA CASCIA M., TINNIRELLO I. (2020). WhoSNext: Recommending Twitter Users to Follow Using a Spreading Activation Network Based Approach. *International Conference on Data Mining Workshop (ICDMW)*.
2. ARDIZZONE E., CASTELLANO G., LA CASCIA M., MAZZOLA G. (2019). Automatic Generation of Custom Tourist Routes. *International Conference on Signal Image Technology & Internet based Systems (SITIS)*.
3. LO PRESTI L. and LA CASCIA M. (2019). Deep Motion Model for Pedestrian Tracking in 360 Degrees Videos. *International Conference on Image Analysis and Processing (ICIAP)*.
4. MONTELEONE V., LO PRESTI L. and LA CASCIA M. (2019). Particle filtering for tracking in 360 degrees videos using virtual PTZ cameras. *International Conference on Image Analysis and Processing (ICIAP)*.
5. LA CASCIA M., INFANTINO I., VELLA F. (2019). Recognition of Human Actions Through Deep Neural Networks for Multimedia Systems Interaction. *International Conference on Advances in Multimedia (MMEDIA)*.
6. LA CASCIA M., VASSALLO G., GALLO L., PILATO G., VELLA F. (2018). Automatic image annotation using random projection in a conceptual space induced from data. *International Conference on Signal Image Technology & Internet based Systems (SITIS)*.
7. MONTELEONE V., LO PRESTI L. and LA CASCIA M. (2018). Pedestrian Tracking in 360 Video by Virtual PTZ Cameras. *IEEE International Forum on Research and Technologies for Society and Industry (RTSI)*.
8. LO PRESTI L., LA CASCIA M. (2018). Multi-modal medical image registration by local affine transformations, *International Conference on Pattern Recognition Applications and Methods (ICPRAM)*.
9. MONTELEONE V., LO PRESTI L. and LA CASCIA M. (2017). HoP: Histogram of Patterns for Human Action Representation, *International Conference on Image Analysis and Processing (ICIAP)*.
10. LA CASCIA M., GRECO L. (2017). 360 degree Tracking using a virtual PTZ Camera, *International Conference on Image Analysis and Processing (ICIAP)*.
11. LO PRESTI L., LA CASCIA M. (2016). A Novel Time Series Kernel for Sequences Generated by LTI Systems, *Asian Conference on Computer Vision (ACCV)*.
12. BRUNO A., GRECO L., LA CASCIA M. (2016). Views selection for SIFT based object modeling and recognition. In *2016 IEEE 12th Image, Video, and Multidimensional Signal Processing Workshop (IVMSP)*.
13. LO PRESTI L., LA CASCIA M. (2015). Ensemble of Hankel Matrices for Face Emotion Recognition, *International Conference on Image Analysis and Processing (ICIAP)*.
14. ARDIZZONE E., BRUNO A., GRECO L., LA CASCIA M. (2015). Why You Trust in Visual Saliency, *Workshop on Image and Video Processing for Quality of Multimedia Experience (ICIAP)*.
15. LO PRESTI L., LA CASCIA M. (2015). Using Hankel matrices for Dynamics-based Facial Emotion Recognition and Pain Detection, *Workshop on Analysis and Modeling of Face and Gesture (CVPRW)*.
16. LO PRESTI L., LA CASCIA M. (2015). Tracking your Detector Performance: how to grow an effective training set in Tracking-by-Detection methods, *International Conference on Computer Vision Theory and Applications (VISAPP)*.
17. ARDIZZONE E., LA CASCIA M., MAZZOLA G. (2015). Keyword-based keyframe extraction in online video collections, *International Conference on Pattern Recognition Applications and Methods (ICPRAM)*.
18. GENTILE V., BRUNO A., LA CASCIA M. (2015). Features extraction for palmprint-based identification, *GTTI Multimedia (Invited)*.
19. LO PRESTI L., LA CASCIA M., SCLAROFF S., CAMPS O. (2014). Gesture Modeling by Hanklet-based Hidden Markov Model , *Asian Conference on Computer Vision (ACCV)*.

20. LO PRESTI L., LA CASCIA M. (2014). 3D Object Modeling by Sharing Visual Attributes across Poses and Scales, Scene Understanding Workshop (CVPRW).
21. ARDIZZONE E., LA CASCIA M., GALLEA R., MAZZOLA G. (2014). Combining Top-down and Bottom-up Visual Saliency for Firearms Localization, Signal Processing and Multimedia Application (SIGMAP).
22. BRUNO A., CARMINETTI P., GENTILE V., LA CASCIA M. (2014). Palmprint principal lines extraction, IEEE Workshop on Biometric Measurements and Systems for Security and Medical Applications (BIOMS).
23. BRUNO A., GRECO L., LA CASCIA M. (2014). Video Object Recognition and Modeling by SIFT Matching Optimization, International Conference on Pattern Recognition Applications and Methods (ICPRAM).
24. BRUNO A., GRECO L., LA CASCIA M. (2013). Object recognition and modeling using SIFT features. In: International Conference on Advanced Concepts for Intelligent Vision Systems. Poznan, Poland, October 2013. Vol. 8192 LNCS, pp. 250-261.
25. GRECO L., LA CASCIA M. (2013). Saliency based aesthetic cut of digital images. In: International Conference on Image Analysis and Processing. Napoli, Italy, September 2013. Vol. 8157(2) LNCS, pp. 151-160.
26. ARDIZZONE E., BRUNO A., GALLEA R., LA CASCIA M., MAZZOLA G. (2013). Toward an integrated system for surveillance and behaviour analysis of groups and people. In: International Conference on Image Analysis and Processing. Naples, Italy, September 2013. Vol. 8158 LNCS, pp. 474-481.
27. DUCATO A., FRATINI L., LA CASCIA M., MAZZOLA G. (2013). An Automated Visual Inspection System for the Classification of the Phases of Ti-6Al-4V Titanium Alloy. In: International Conference on Computer Analysis of Images and Patterns. York, UK, August 2013. Vol. 8048(2) LNCS, pp. 362-369.
28. GRECO L., LA CASCIA M., LO CASCIO F. (2013). Fully automatic saliency-based subjects extraction in digital images. In: International Conference on Signal Processing and Multimedia Applications. Reykjavik, Iceland, July 2013. ISBN: 978-989856574-7, pp. 129-136.
29. ARDIZZONE E., DI MICELI F., LA CASCIA M., MAZZOLA G. (2012). Extracting Touristic Information from Online Image Collections. In: International Conference on Signal Image Technology and Internet Based Systems. Sorrento, Italy, November 2013. ISBN: 978-076954911-8, pp. 482-488.
30. DE PAOLA A., LA CASCIA M., LO RE G., MORANA M., ORTOLANI M. (2012). User detection through multi-sensor fusion in an Aml scenario. In: International Conference on Information Fusion. Singapore, Singapore, September 2012. ISBN: 978-098244385-9, pp. 2502-2509.
31. GRECO L., LO PRESTI L., AUGELLO A., LO RE G., LA CASCIA M., GAGLIO S. (2011) A Multi-Agent Decision Support System for Dynamic Supply Chain Organization. In: 5th International Workshop on New Challenges in Distributed Information Filtering and Retrieval. Palermo, Italy, September 2011. ISSN: 16130073. Vol. 771, pp. 1-12.
32. LO PRESTI L., LA CASCIA M., (2011) Entropy-based Localization of Textured Regions. In: International Conference on Image Analysis and Processing. Ravenna, Italy, September 2011. Vol. 6978(1) LNCS, pp. 616-625.
33. ARDIZZONE E., GALLEA R., LA CASCIA M., MORANA M. (2011) Automatic generation of subject-based image transitions. In: International Conference on Image Analysis and Processing. Ravenna, Italy, September 2011. Vol. 6978(1) LNCS, pp. 237-246.
34. LO PRESTI L., MORANA M., LA CASCIA M. (2010) A Data Association Algorithm for People Re-Identification in Photo Sequences. In: IEEE International Workshop on Multimedia Information Processing and Retrieval. Taichung, Taiwan, December 2010. ISBN: 978-076954217-1, pp. 318-323.
35. PILATO G., VELLA F., VASSALLO G., LA CASCIA M. (2010) A Conceptual Probabilistic Model for the Induction of Image Semantics. In: IEEE International Conference on Semantic Computing. Pittsburgh, PA, USA, September 2010. ISBN: 978-076954154-9, pp. 91-96.
36. LA CASCIA M., MORANA M., SORCE S. (2010) Mobile Interface for Content-Based Image Management. In: International Conference on Complex, Intelligent and Software Intensive Systems. Krakow, Poland; February 2010. ISBN: 978-076953967-6, pp. 718-723.
37. ARDIZZONE E., LA CASCIA M., MORANA M., VELLA F. (2010) Three-domain image representation for personal photo album management. In: Multimedia Content Access: Algorithms and Systems IV, SPIE Vol. 7540. San Jose, USA, January 2010.
38. ARDIZZONE E., LA CASCIA M., MORANA M. (2009) Face Processing on Low-Power Devices. In: Embedded and Multimedia Computing 4th International Conference (EM-Com). Jeju, Korea, December 2009.
39. LO PRESTI L., SCLAROFF S., LA CASCIA M. (2009). Object Matching in Distributed Video Surveillance Systems by LDA-Based Appearance Descriptors. LECTURE NOTES IN COMPUTER SCIENCE, vol. 5716; pp. 547-557, ISSN: 0302-9743
40. ARDIZZONE E., LA CASCIA M., MORANA M. (2009). Probabilistic Corner Detection for Facial Feature Extraction. LECTURE NOTES IN COMPUTER SCIENCE, vol. 5716; pp. 461-470, ISSN: 0302-9743
41. GALLEA R., LA CASCIA M., MORANA M. (2009). A Combined Fuzzy and Probabilistic Data Descriptor for Distributed CBIR. LECTURE NOTES IN ARTIFICIAL INTELLIGENCE, vol. 5571; pp. 189-196, ISSN: 0302-9743

42. ARDIZZONE E, LA CASCIA M., LO PRESTI L. (2008). Integrating computer vision techniques and wireless sensor networks in video surveillance systems. In: Atti della Prima Giornata di Studio sui Progetti di Ricerca in Video Sorveglianza in Italia, p. 1-5
43. ARDIZZONE E., LA CASCIA M., VELLA F. (2008). A novel approach to personal photo album representation and management. In: Proceedings of Multimedia Content Access: Algorithms and systems II. San Jose, CA, January, 2008, p. 1-10
44. ARDIZZONE E., LA CASCIA M., VELLA F. (2008). Unsupervised Clustering in Personal Photo Collections. In: Proceedings of Workshop on Adaptive Multimedia Retrieval. Berlin, Germany, June 2008. Vol. 5811 LNCS, pp. 140-154
45. ARDIZZONE E., LA CASCIA M., VELLA F. (2008). Mean shift clustering for personal photo album organization. In: Proceedings of ICIP Workshop on Multimedia Information Retrieval: New Trends and Challenges. San Diego, CA, USA, October, 2008, p. 1-4
46. GUALDI G., PRATI A., CUCCHIARA R., ARDIZZONE E., LA CASCIA M., LO PRESTI L., MORANA M. (2008). Enabling technologies on hybrid camera networks for behavioral analysis of unattended indoor environments and their surroundings. In: Proceedings of the 1st ACM workshop on Vision networks for behavior analysis. Vancouver, Canada, October, 2008, p. 1-8
47. LO PRESTI L., LA CASCIA M. (2008). Real-time object detection in embedded video surveillance systems. In: Proceedings of International Workshop on Image Analysis for Multimedia Interactive Services. Klagenfurt, Austria, May, 2008, p. 1-4
48. LO PRESTI L., LA CASCIA M. (2008). Real-time estimation of geometrical transformation between views in distributed smart-cameras systems. In: Proceedings of International Conference on Distributed Smart Cameras. Stanford, CA, USA, September, 2008, p. 1-8
49. ARDIZZONE E., LA CASCIA M., VELLA F. (2007). Automatic image representation for content-based access to personal photo album. LECTURE NOTES IN COMPUTER SCIENCE, vol. 4842; pp. 265-274, ISSN: 0302-9743
50. ARDIZZONE E., GAMBINO O., LA CASCIA M., LO PRESTI L., PIRRONE R. (2007). Multi-modal non-rigid registration of medical images based on mutual information maximization. In: Proceedings of 14th International Conference on Image Analysis and Processing. Modena (Italy), 10-14 september 2007, p. 743-748
51. CAPPELLO F., INGRASSIA T., LA CASCIA M., GAZZIANO G. (2006). NURBS Modelling in Virtual Reality. In: XVIII Congreso Internacional de Ingenieria Grafica de INGEGRAF. Barcellona (Spagna), 31 Maggio 2006, p. 15
52. CAPPELLO F., INGRASSIA T., LA CASCIA M., ROMANO M. (2006). Towards a fully integrated CAD system in virtual reality environment. In: Proceedings of Virtual Concept 2006. Playa del Carmen, Messico, 26 Novembre 2006 Springer-Verlag, p. 121-128, ISBN/ISSN: 2-287-48363-2
53. ARDIZZONE E., LA CASCIA M., LO RE G., ORTOLANI M. (2005). An Integrated Architecture for Surveillance and Monitoring in an Archaeological Site. In: 3rd ACM International Workshop on Video Surveillance & Sensor Networks, 11 Novembre 2005, vol. 1, p. 79-86, ISBN/ISSN: 1-59593-242-9
54. SPAMPINATO G., BRUNA A., SANGUEDOLCE G., ARDIZZONE E., LA CASCIA M. (2005). Improved color interpolation using discrete wavelet transform. In: SPIE. Image and Video Communications and Processing, Marzo 2005, vol. 5685, p. 753-760
55. BATTIATO S., CAPRA A., CURTI S., LA CASCIA M. (2004). 3D Stereoscopic Image Pairs by Depth-Map Generation. In: IEEE International Symposium on 3D Data Processing, Visualization, and Transmission, (3DDPVT), p. 124-131
56. BATTIATO S., CURTI S., SCORDATO E., TORTORA M., LA CASCIA M. (2004). Depth Map Generation by Image Classification. In: SPIE Electronic Imaging, vol. 5302, p. 100-109
57. CASTORINA A., CAPRA A., CURTI S., LA CASCIA M., LO VERDE V. (2004). Extension of the Depth of Field using Multifocus Input Images. In: IEEE International Symposium on Consumer Electronics, p. 146-150
58. LA CASCIA M., VALENTI L., SCLAROFF S. (2004). Fully Automatic, Real-Time Detection of Facial Gestures from Generic Video. In: IEEE International Workshop on Multimedia Signal Processing, (MMSP)
59. ARDIZZONE E., LA CASCIA M., TESTA F. (2003). A New Algorithm for Bit Rate Allocation in JPEG2000 Tile Encoding. In: International Conference on Image Analysis and Processing, (ICIAP), p. 658-661
60. VIVIRITO P., BATTIATO S., CURTI S., LA CASCIA M., PIRRONE R. (2002). Restoration of out of focus images based on circle of confusion estimate. In: SPIE 47th Annual Meeting
61. ARDIZZONE E., LA CASCIA M., MANISCALCO U., PERI D., PIRRONE R. (2002). Population and query interface for a content-based video database. LECTURE NOTES IN COMPUTER SCIENCE, vol. 2490; pp. 286-298, ISSN: 0302-9743
62. ARDIZZONE E., LA CASCIA M., MANISCALCO U., PERI D., PIRRONE R. (2001). Content-based indexing of MPEG-4 video on relational DBMS. In: International Workshop on Multimedia Data and Document Engineering, (MDDE)
63. PIRRONE R., LA CASCIA M. (2001). Texture Classification for Content-Based Image Retrieval. In: International Conference on Image Analysis and Processing, (ICIAP)

64. ARDIZZONE E., LA CASCIA M., AVANZATO A., BRUNA A. (1999). Video Indexing Using MPEG Motion Compensation Vectors. In: IEEE Conf. on Multimedia Computing and Systems, (ICMCS)
65. LA CASCIA M., SCLAROFF S. (1999). Fast, Reliable Head Tracking under Varying Illumination. In: IEEE Conf. on Computer Vision and Pattern Recognition, (CVPR)
66. ARDIZZONE E., DI GESU' V., LA CASCIA M., MANISCALCO U., PARELLI F., TABACCHI M.E. (1998). Distributed Image Databases: Hybrid Similarity Functions. In: Joint Workshop of AI\*IA and IAPR-IC on Artificial Intelligence and Pattern Recognition Techniques
67. LA CASCIA M., ISIDORO J., SCLAROFF S. (1998). Head Tracking via Robust Registration in Texture Map Images. In: IEEE Conf. on Computer Vision and Pattern Recognition, (CVPR)
68. LA CASCIA M., SETHI S., SCLAROFF S. (1998). Combining Textual and Visual Cues for Content-Based Image Retrieval on the World Wide Web. In: IEEE Workshop on Content-Based Access of Image and Video Libraries
69. TAYCHER L., LA CASCIA M., AND SCLAROFF S. (1997). Image Digestion and Relevance Feedback in the ImageRover WWW Search Engine. In: International Conf. on Visual Information
70. SCLAROFF S., TACYHER L., LA CASCIA M. (1997). ImageRover: A Content-Based Image Browser for the World Wide Web. In: IEEE Workshop on Content-Based Retrieval in Image Databases
71. ARDIZZONE E., LA CASCIA M. (1996). Multifeature Image and Video Content-based Storage and Retrieval. In: SPIE Conf. On Multimedia Storage and Archiving Systems, vol. 2916
72. ARDIZZONE E., LA CASCIA M. (1996). Video Indexing Using Optical Flow Field. In: IEEE International Conf. on Image Processing, (ICIP)
73. ARDIZZONE E., LA CASCIA M., MOLINELLI D. (1996). Motion and Color Based Video Indexing and Retrieval. In: Proc. International Conf. on Pattern Recognition, (ICPR)
74. ARDIZZONE E., LA CASCIA M., DI GESU' V., AND VALENTI C. (1996). Content Based Indexing of Image and Video Databases by Global and Shape Features. In: International Conf. on Pattern Recognition, (ICPR)
75. LA CASCIA M., ARDIZZONE E. (1996). JACOB: Just a content-based query system for video databases. In: IEEE International Conf. on Acoustics, Speech, and Signal Processing, (ICASSP)
76. ABRUZZO A., GIOIELLO G., LA CASCIA M., SORBELLO F. (1995). Motion Detection From Image Sequences Using A New Fully Digital VLSI Neural Architecture. In: Proc. European Congress on Intelligent Techniques and Soft Computing (EUFIT)
77. ABRUZZO A., GIOIELLO G., LA CASCIA M., SORBELLO F. (1995). A New Fully Digital Neural Architecture For Motion Detection From Image Sequences. In: International Conference on Engineering Applications of Neural Networks

Palermo, November 1<sup>st</sup> 2021

Marco La Cascia