

Curriculum Vitae

INFORMAZIONI PERSONALI

Nome MARCO
Cognome LA CASCIA
Recapiti Dipartimento di Ingegneria - Viale delle Scienze, Ed. 6 - 90128 Palermo
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FORMAZIONE TITOLI

- Abilitazione scientifica nazionale alle funzioni di professore di prima fascia (2013)
- Abilitazione all'esercizio della professione di ingegnere (1995)
- Dottorato di Ricerca in Ingegneria Elettronica, Informatica e delle Telecomunicazioni (1998, Università degli Studi di Palermo)
- Laurea in Ingegneria Elettronica con lode (1994, Università degli Studi di Palermo)

ESPERIENZE LAVORATIVE

- 2017 – Professore Ordinario – Università degli Studi di Palermo
- 2005 – 2017 Professore Associato – Università degli Studi di Palermo
- 2000 – 2004 Ricercatore universitario – Università degli Studi di Palermo
- 1999 – 2000 Senior Software Engineer – Offnet S.p.A., Roma
- 1998 – 1999 Post-doc presso Image and Video Computing (IVC) Group, Boston University, MA, USA
- 1996 – 1997 Visiting Researcher presso Image and Video Computing (IVC) Group, Boston University, MA, USA
- 1995 – 1998 Studente di dottorato presso Università degli Studi di Palermo

ATTIVITA' DIDATTICA

Corsi tenuti presso l'Università di Palermo

- 2022 – 2024, Tecnologie per i Big Data
- 2021 – 2023, Data Analytics and Storage
- 2016 – 2024 Programmazione in Java;
- 2020 – 2021 Reti logiche;
- 2010 – 2024 Architetture e progetto dei sistemi web (HTML, CSS, XML, JS, JavaEE);
- 2001 – 2015, Programmazione in C++;
- 2005 – 2010, Visione artificiale;
- 2001 – 2004, Basi di dati e sistemi informativi;

RICERCHE FINANZIATE

Prof. La Cascia ha partecipato a più di 10 progetti di ricerca negli ultimi anni. Ha svolto il ruolo di responsabile per UniPA nei seguenti progetti:

- "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)

INCARICHI / CONSULENZE

- 2023 – Coordinatore del Dottorato in Information and Communication Technology;
- 2023 – Delegato all'Internazionalizzazione del Dipartimento di Ingegneria;
- 2019 – 2022 Presidente della CPDS del Dipartimento di Ingegneria;
- 2016 – 2019 Coordinatore del Consiglio di Interclasse dei Corsi di Studio in Ingegneria Informatica e delle Telecomunicazioni per il triennio 2016-19;
- 2013 – 2016 Coordinatore del Consiglio di Interclasse dei Corsi di Studio in Ing. Informatica e delle Telecomunicazioni per il triennio 2013-16;
- 2012 – 2013 Componente della CPDS della Facoltà di Ingegneria;
- 2008 – 2013 Coordinatore Vicario del Consiglio di Interclasse dei Corsi di Studio in Ingegneria Informatica;
- 2007 – 2008 Membro dell'Osservatorio Permanente per la Didattica della Facoltà di Ingegneria;
- 2001 – 2005 Segretario verbalizzante del Consiglio dei Corsi di Studio in Ingegneria Informatica;

ASSOCIAZIONI SCIENTIFICHE

Membro di IAPR, CVPL.

PUBBLICAZIONE

RIVISTE SCIENTIFICHE

1. SIINO, M., TINNIRELLO, I., LA CASCIA, M. (2024) Is text preprocessing still worth the time? A comparative survey on the influence of popular preprocessing methods on Transformers and traditional classifiers. *Information Systems*, 2024, 121, 102342.
2. SIINO, M., DI NUOVO, E., TINNIRELLO, I., LA CASCIA, M. (2022). Fake News Spreaders Detection: Sometimes Attention Is Not All You Need, *Information (Switzerland)*, 13 (9), 426.
3. CRUCIATA G., LO PRESTI L., LA CASCIA M. (2022). Iterative Multiple Bounding-Box Refinements for Visual Tracking, *Journal of Imaging*, 8(3), 61.
4. CRUCIATA G., LO PRESTI L., LA CASCIA M. (2021). On the use of Deep Reinforcement Learning for Visual Tracking: a Survey, *IEEE Access*, Vol. 9, DOI 10.1109/ACCESS.2021.3108623.
5. 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.
6. 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.
7. 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.ress.2020.107265.
8. 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*, 13(4), DOI: 10.1109/TCDS.2020.3023196.
9. 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.
10. 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.
11. LO PRESTI L., LA CASCIA M. (2017). Boosting Hankel Matrices for Face Emotion Recognition and Pain Detection, *Elsevier Computer Vision and Image Understanding*.
12. 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*
13. LO PRESTI L., LA CASCIA M. (2015). 3D Skeleton-based Human Action Classification: a Survey, *Elsevier Pattern Recognition*.
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. ARDIZZONE E., LA CASCIA M. (1997). Automatic Video Database Indexing and Retrieval. *MULTIMEDIA TOOLS AND APPLICATIONS*, vol. 4; pp. 29–56, ISSN: 1380–7501

BREVETTI

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

CAPITOLI DI LIBRO

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., PIRRONI 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

ATTI DI CONFERENZE

1. GAZZEH, S., LO PRESTI, L., DOUIK, A., LA CASCIA, M. (2023) RLSTM: A Novel Residual and Recurrent Network for Pedestrian Action Classification. Lecture Notes in Computer Science 2023, 14185 LNCS.
2. BECATTINI F. ET AL. (2022) I-MALL An Effective Framework for Personalized Visits. Improving the Customer Experience in Stores. Proceedings of the 1st Workshop on Multimedia Computing towards Fashion Recommendation.
3. LO PRESTI L., MAZZOLA G., LA CASCIA M. (2022) Activity Monitoring Made Easier by Smart 360-degree Cameras. Proceedings of European Conference on Computer Vision Workshop (ECCVW).
4. GATTO L., GAGLIO G.F., AUGELLO A., CAGGIANESE G., GALLO L., LA CASCIA M. (2022). MET-iquette: enabling virtual agents to have a social compliant behavior in the Metaverse. 16th International Conference on Signal-Image Technology & Internet-Based Systems (SITIS).
5. SIINO M., TINNIRELLO I., LA CASCIA M. (2022). T100: A modern classic ensemble to profile irony and stereotype spreaders. CEUR Workshop Proceedings, 2022, 3180, pp. 2666–2674.
6. SIINO M., LA CASCIA M., TINNIRELLO I. (2022). McRock at SemEval-2022 Task 4: Patronizing and Condescending Language Detection using Multi-Channel CNN, Hybrid LSTM, DistilBERT and XLNet. 16th International Workshop on Semantic Evaluation, Proceedings of the Workshop, 2022, pp. 409–417
7. LO PRESTI L., MAZZOLA G., AVERNA G., ARDIZZONE E., LA CASCIA M. (2022). Depth-Aware Multi-object Tracking in Spherical Videos. International Conference on Image Analysis and Processing (ICIAP).
8. SIINO M., DI NUOVO E., TINNIRELLO I., LA CASCIA M. (2021). Detection of Hate Speech Spreaders using convolutional neural networks. CEUR Workshop Proceedings.
9. 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).
10. 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).
11. 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).
12. 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).
13. 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).
14. 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).
15. 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).
16. LO PRESTI L., LA CASCIA M. (2018). Multi-modal medical image registration by local affine transformations, Asian Conference on Computer Vision (ICPRAM).
17. 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).
18. LA CASCIA M., GRECO L. (2017). 360 degree Tracking using a virtual PTZ Camera, International Conference on Image Analysis and Processing (ICIAP).
19. LO PRESTI L., LA CASCIA M. (2016). A Novel Time Series Kernel for Sequences Generated by LTI Systems, Asian Conference on Computer Vision (ACCV).
20. 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).
21. LO PRESTI L., LA CASCIA M. (2015). Ensemble of Hankel Matrices for Face Emotion Recognition, International Conference on Image Analysis and Processing (ICIAP).
22. 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).
23. 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 (CVPR).
24. 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).
25. 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).
26. GENTILE V., BRUNO A., LA CASCIA M. (2015). Features extraction for palmprint-based identification, GTTI Multimedia (Invited).
27. 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).

28. LO PRESTI L., LA CASCIA M. (2014). 3D Object Modeling by Sharing Visual Attributes across Poses and Scales, Scene Understanding Workshop (CVPR).
29. 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).
30. 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).
31. 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).
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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
48. 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
49. 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
50. 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
51. 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
52. 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
53. 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
54. 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
55. 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
56. 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

57. 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
58. 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
59. 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
60. 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
61. 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
62. 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
63. 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
64. 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
65. 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
66. 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)
67. 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
68. 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
69. 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
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ATTIVITA' SCIENTIFICHE

Program Committee di:

International Conference on pattern recognition Applications and Methods (ICPRAM), 2012–2018

International Conference on Advances in Multimedia (MMEDIA), 2018

International Conference on Network-Based Information Systems (NBIS), 2013

IEEE International Conference on Semantic Computing (ICSC), 2013–2018

International Workshop on Motion Capture and Classification, 2014

International Workshop on Recent Advances in Digital Security: Biometrics and Forensics (BioFor), 2015

Reviewer per le seguenti riviste scientifiche:

IEEE Trans. on Pattern Analysis and Machine Intelligence (PAMI), IEEE Trans. on Knowledge and Data Engineering (TKDE), IEEE Trans. on Circuits and Systems for Video Technology, IEEE Trans. on Systems, Man, and Cybernetics, Computer Vision and Image Understanding (CVIU), 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 per le seguenti conferenze/workshop internazionali:

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

AMBITI DI RICERCA

Computer Vision, Pattern Recognition, Multimedia

Domini applicativi: content-based image retrieval, face processing, face expression recognition, head tracking, action recognition, gesture modeling, object detection and tracking, surveillance, mobile computer vision based applications.

ALTRE ATTIVITÀ

SUPERVISIONE DI STUDENTI E COORDINAMENTO DI GRUPPI DI RICERCA

Prof. La Cascia è stato relatore di oltre 50 studenti di Laurea Magistrale, 6 studenti di dottorato e tutor di 7 assegnisti di ricerca. Coordina il gruppo di Computer Vision and Image Processing (CVIP) all'Università di Palermo.

COLLABORAZIONI INTERNAZIONALI E NAZIONALI

1996 – collaborazione col Prof. S. Sclaroff di Boston University (USA) su head tracking, content-based video and image retrieval, multi-camera network, gesture modeling;

2000 – collaborazione con ricercatori (Dr. F. Vella, Dr. G. Pilato, Dr. A. Augello) del CNR-ICAR di Palermo su multimedia database e document processing;

2002 – 2003, collaborazione con ricercatori (Dr. S. Curti, Dr. S. Battiato) di ST Microelectronics, Catania, su digital still camera algorithms;

2007 – 2008, collaborazione con ricercatori (Prof. R. Cucchiara, Prof. A. Prati) dell'University di Modena e Reggio Emilia, su video-surveillance e camera networks;

2014 – collaborazione col Prof. O. Camps di Northeastern University (USA) su action recognition.

INDICATORI BIBLIOMETRICI

Autore di oltre 100 articoli su riviste o atti di conferenze internazionali.

Google scholar a gennaio 2024 indica: h-index: 30, number of citations: >5000.