🛛 (+39) 349 4552467 | 🗳 niki.martinel@uniud.it | 🌴 http://users.dimi.uniud.it/ niki.martinel/ | 📮 iN1k1 | 🛅 niki-martinel-1701752b | 🕲 iniki86 |

The following CV is also available online

Via Case Sparse, 5/A, Spilimbergo, 33097 (PN) I Italy

Main Research and Teaching Activities

Current Position and Roles

CURRENT POSITION

University of Udine

Associate Professor at AVIRES/MLP Labs (University of Udine) - Machine Learning and Computer Vision Recent Activities:

- Proposed and implemented a novel neural pooling layer with knowledge distillation for vehicle re-identification Paper accepted for publication at IEEE Transactions on Industrial Informatics - IF. 9.1
- Proposed and implemented a deep neural network model with attention for person re-identification IEEE Transactions on Image Processing - IF. 9.3
- Co-Principal Investigator for the accepted ONR Grant N62909-20-1-2075 entitled "Target Re-Association for Autonomous Agents" (TRAAA)
- Responsible for the PRESNET project WPs regarding the development of video analysis/machine learning models for autonomous UAV control. Funded by the Italy/Singapore Ministry of Defense.
- Responsible for the Conuter-UAV project WPs regarding the introduction of computer vision and deep learning approaches for UAV detection. Funded by the Italy Ministry of Defense.

INTERNATIONAL ROLES

Italian IAPR chapter

DEPUTY CHIEF FOR THE NEURAL NETWORKS AND DEEP LEARNING TECHNICAL COMMITTEE September 2017 - To Date Creating a network of people that will guide new and young members through the challenges and existing approaches of deep neural networks (deep learning).

NATO

Member of the NATO Activity IST-169 Robustness And Accountability In Machine Learning System August 2018 - To Date Determine the state-of-the-art in robustness and accountability for deep learning systems with complex and large models which are virtually impossible to manage by humans.

NATO

MEMBER OF THE NATO ACTIVITY IST-ET-113 UNSUPERVISED MACHINE LEARNING IN THE MILITARY DOMAIN Define the state-of-the-art in unsupervised machine learning systems and set the stepping-stones for the future directions in the military domain.

Teaching and Research

TEACHING AT INTERNATIONAL SCHOOLS

IAPR

TEACHER

Invited to offer machine learning-related classes at the International Doctorate School entitled "Scuola di Visione delle Macchine" (2016) / International Summer School on Artificial Intelligence - From Deep Learning to Data Analytics (2018, 2019).

TEACHING

APRIL 5, 2023

Bruxelles, Belgium

2016 - To Date

Firenze, Italy

Bruxelles, Belgium December 2019 - To Date

Italy

Martir

Udine, Italy

Dec 2021 - To Date

National and International Universities

TEACHER

More than 15 teaching activities on bachelor, master and doctoral computer science coursers offered by the University of Udine (Italy) and the Alpen-Adria University of Klagenfurt (Austria).

DOCTORATE SCHOOL ORGANIZER

International Schools

Local Chair

Organizer of the 2016 edition of the International Doctorate School entitled "Scuola di Visione delle Macchine" promoted by the Italian IAPR Chapter and of the International Summer School on Artificial Intelligence (AI-DLDA), 2018 to 2021 editions.

DOCTORATE THESIS REFEREE

 National Referee
 Italy

 UNIVERSITY OF PADOVA/UDINE
 2018 - To Date

 External/Internal member of the evaluation committee for award of International Doctor of Philosophy Degrees.
 2018 - To Date

International Referee

UNIVERSITY OF ALCALA DE HENARES International member of the evaluation committee for award of the International Doctor of Philosophy Degree in Electronics, department of Electronics, University of Alcala de Henares, Spain.

INTERNATIONAL JOURNAL EDITOR

Elsevier Microprocessors and Microsystems International Journal	Elsevier
Handling/Associate Editor	2020
Handling/Associate editor for the International Journal on Microprocessors and Microsystem.	
IEEE/IET CAAI Transactions on Intelligence Technology	IEE/IET
Associate Editor	2016
Associate editor for the International IEEE-IET Journal CAAI Transactions on Intelligence Technology.	

INTERNATIONAL RESEARCH

University of California at Riverside

2014 – 2016 Junior specialist (2012–2013) and visiting assistant project scientist (2016) working on projects funded by the Office of Naval Research (ONR) and by the National Science Foundation (NSF).

Alpen-Adria University of Klagenfurt	Klagenfurt, Austria
VISITING PROFESSOR	2020
Visiting professor for guest lectures series on Artificial Vision.	
Alpen-Adria University of Klagenfurt	Klagenfurt, Austria
VISITING PROFESSOR	2018

Visiting professor for guest lectures series on Artificial Vision.

RESEARCH COLLABORATIONS

National and International Universities

Researcher

Collaborations with national and international universities including: University of Firenze, University of Ljubljana, University of Boston, University of California at Riverside, Queensland University of Technology, University of Adelaide, Stanford University.

INTERNATIONAL CONFERENCE ORGANIZATION

International Workshop on Distributed Smart Cameras (ICCV2021, ECCV2022)

GENERAL CHAIR General chair for the 1st International Workshop on Distributed Smart Cameras.

Virtual

2012 – To Date

Italy/Slovenia/USA/Australia

2021-2022

Italv

2016-To Date

Alcala de Henares, Spain

Riverside, CA, USA

2

IEEE/ACM/Springer	
Technical Program Committee	2013 - To Do
Member of the technical program committee of various top-notch computer vision and machine learning internati	onal conferences and
workshops (<i>e.g.</i> , WACV/ECCV/ICCV/CVPR/AAAI).	
Invited Presentations and Seminars	
International Universities	
Seminars	2015 – To Do
Invited to present current and past research activities at different International Universities, including the Universit the University of Massachusetts at Lowell (Massachusetts, USA).	y of Ljubljana (Slovenia) an
Technological Transfer	
Eye-Tech Srl	
Member	2016 – To Do
Member of a spin-off of the University of Udine.	
Reviewing Activities	
IEEE/ACM/Springer	
Reviewer	2014 – To Do
Reviewer and member of the technical program committee of top-notch international conferences.	
IEEE/ACM/Elsevier/IET/SPIE/Springer	
Reviewer	2014 – To Do
Reviewer for prestigious international computer vision and machine learning-related journals.	
Competitive Research Projects	
University of Udine	Udine, Ita
WP/Technical Responsible	2010 – To De
CoPI, WP responsible and unit member for 7 international and 5 national projects.	
Publications	
IEEE/ACM/Elsevier/Springer	
Author/Co-Author	2010 – To D
Author or co-author of more than 20 international journal papers, 35 papers published in international conference	s proceedings and 3 book
chapters.	
IEEE/ACM	
Awards	2014 – To De
 Ranked among the top reviewers for ECCV 2020. Main author of the paper entitled "Unsupervised Hashing with Neural Trees for Image Retrieval and Person Re-Id L. Foresti and C. Micheloni, nominated for the Best Paper Award at the International Conference on Distributed Main author of the paper entitled "Distributed and Unsupervised Cost-Driven Person Re-identification" by N. Mar 	Smart Cameras (2018)

- Main author of the paper entitled "Distributed and Unsupervised Cost-Driven Person Re-identification" by N. Martinel, G. L. Foresti and C. Micheloni, receiving the Best Industry Related Paper Award at the International Conference on Pattern Recognition (2016)
- Main author of the paper entitled "Sparse Matching of Random Patches for Person Re-Identification" by N. Martinel and C. Micheloni, receiving the Best Paper Award at the International Conference on Distributed Smart Cameras (2014)

RESEARCH QUALITY

Venice, Italy

2014

Multimedia chair for the 12th International Conference on Distributed Smart Cameras, held in Eindhoven, The Netherlands.

International Conference on Distributed Smart Cameras

International Conference on Distributed Smart Cameras

PUBLICATION CHAIR Publication chair for the 8th International Conference on Distributed Smart Cameras, held in Venice, Italy.

IEEE/ACM/Springer

Multimedia Chair

Bibliometric Indicators

Author

• Scopus: h - index = 18 - citations = 896

Dr. Martinel has received the "Abilitazione Scientifica Nazionale" for the Full Professor position for the scientific sector 01/B1.

Education

 University of Udine PH.D. IN INDUSTRIAL AND INFORMATION ENGINEERING Thesis entitled "Biologically-Inspired Hierarchical Learning Architectures for Image Classification". Supervisor: Prof. Gian Luca Foresti Università degli Studi di Udine, May 22, 2017, pp. 155 	Udine, Italy May 2014 - May 2017
University of Udine	Udine, Italy
 PH.D. IN MULTIMEDIA COMMUNICATION Thesis entitled "A Distributed Video Surveillance System to Track Persons in Camera Networks". Supervisor: Dr. Christian Micheloni Università degli Studi di Udine, April 9, 2014, pp. 163. 	January 2011 - April 2014
University of Udine	Udine, Italy
 MASTER DEGREE IN MULTIMEDIA COMMUNICATION Thesis entitled "Design and Development of a Dynamic User Interface for Video Surveillance Systems". Supervisors: Dr. Christian Micheloni and Prof. Gian Luca Foresti Università degli Studi di Udine, November 2010, pp. 234. Mark: 110/110 <i>cum laude</i>. 	October 2008 - November 2010
University of Udine	Udine, Italy
 BACHELOR DEGREE IN MULTIMEDIA SCIENCE AND TECHNOLOGIES Thesis entitled "A Portal Designed for Querying XML Documents". Supervisors: Dr. Demis Ballis and Dr. Michele Baggi Università degli Studi di Udine, September 2008, pp. 200. Mark: 104/110. 	September 2005 - September 2008

International Schools

University of Cambridge, UK / University of Catania, Italy	Scicli, Italy
INTERNATIONAL COMPUTER VISION SUMMER SCHOOL ICVSS 2011 - REGISTRATION, RECOGNITION AND RECONSTRUCTION	July 2011
University of Modena and Reggio Emilia / IAPR	Modena, Italy

University of Modena and Reggio Emilia / IAPR

INTERNATIONAL SHORT SPRING SCHOOL ON SURVEILLANCE - S4

International Experiences

University of California, Riverside, CA

Assistant Project Scientist - Supervisor: Prof. Amit K. Roy-Chowdhury

Leading a project module on person re-identification

- Implemented a human-in-the-loop method that yields incremental learning. This is used to perform temporal model (metric learning) adaptation
- Other investigated topics: metric learning; deep learning; convex optimization; active learning; incremental learning

University of California, Riverside, CA

JUNIOR SPECIALIST - SUPERVISOR: PROF. AMIT K. ROY-CHOWDHURY

- Jointly working on a project module on person re-identification
- Implemented an approach that tackles the re-identification objective by performing classification of pairwise camera-dependent visual feature transformations
- Other investigated topics: feature transformation; unsupervised manifold learning; machine learning; deep learning; convex/distributed optimization

Riverside, CA, USA January 2016 - March 2016

May 2011

Riverside, CA, USA

September 2012 - April 2013

Teaching Activities _____

8	
University of Udine	Udine, Italy
Smart IoT Devices	2022 - 2023
Teacher for the master course in Multimedia and Information Technology	
University of Udine	Udine, Italy
Multimedia Data Management Lab	2022 - 2023
Teacher for the bachelor course in Multimedia and Science Technologies	
University of Udine	Udine, Italy
COMPUTER SCIENCE FOR MULTIMEDIA	2022 - 2023
Teacher for the bachelor course in Multimedia and Science Technologies	
Alpen-Adria University at Klagenfurt	Klagenfurt, Austria
Artificial Vision	May 2022
Teacher for the master/doctorate short course offered by the Institute of Networked and Embedded Systems	
University of Udine	Udine, Italy
Smart IoT Devices	2021 - 2022
Teacher for the master course in Multimedia and Information Technology	
University of Udine	Udine, Italy
Multimedia Data Management Lab	2021 - 2022
Teacher for the bachelor course in Multimedia and Science Technologies	
University of Udine	Udine, Italy
SMART IOT Devices	2020 - 2021
Teacher for the master course in Multimedia and Information Technology	
University of Udine	Udine, Italy
Multimedia Data Management Lab Teacher for the bachelor course in Multimedia and Science Technologies	2020 - 2021
International Summer School on Artificial Intelligence: From Deep Learning to Data Analytics (AI-DLDA)	Udine, Italy
Going Beyond Convolutional Neural Networks for Computer Vision	July 2020
Invited teacher for the International Doctorate School	
Alpen-Adria University at Klagenfurt	Klagenfurt, Austria
Artificial Vision	May 2020
Teacher for the master/doctorate short course offered by the Institute of Networked and Embedded Systems	
University of Udine	Udine, Italy
SMART NETWORKED DEVICES	2019 - 2020
Teacher for the master course in Multimedia and Information Technology	
University of Udine	Udine, Italy
Multimedia Data Management Lab Teacher for the bachelor course in Multimedia and Science Technologies	2019 - 2020
University of Udine	Udine, Italy
Multimedia Data Management Lab Teacher for the bachelor course in Multimedia and Science Technologies	2018 - 2019
International Summer School on Artificial Intelligence: From Deep Learning to Data Analytics (AI-DLDA)	Udine, Italy
Towards Human-Level Image Understanding with Deep Learning	June 2019
Invited teacher for the International Doctorate School	
Alpen-Adria University at Klagenfurt	Klagenfurt, Austria
Artificial Vision	June 2018
Teacher for the master/doctorate course offered by the Institute of Networked and Embedded Systems	

International Summer School on Artificial Intelligence: From Deep Learning to Data	Udine, Italy
Analytics (AI-DLDA) Towards Human-Level Image Understanding with Deep Learning	July 2018
Invited teacher for the International Doctorate School	5419 2010
University of Udine	Udine, Italy
Machine Learning	2017 - 2018
Commissioned teacher for the master course in Computer Science – International Degree	
University of Udine	Udine, Italy
Smart Vision and Sensor Networks	2017 - 2018
Commissioned teacher for the master course in Computer Science – International Degree	
Istituto Tecnico Superiore ITS - Kennedy	Pordenone, Italy
Introduction to Probability Teacher	2017
University of Udine	Udine, Italy
Machine Learning	2016 - 2017
Commissioned teacher for the master course in Computer Science – International Degree	
University of Udine	Udine, Italy
3D Computer Graphics	2016 - 2017
Commissioned teacher for the master course in Computer Science – International Degree	
University of Udine	Udine, Italy
SMART VISION AND SENSOR NETWORKS	2016 - 2017
Commissioned teacher for the master course in Computer Science – International Degree	
International Machine Vision Summer School (VISMAC) Machine/Deep Learning Introduction	Pordenone/Grado, Italy June 2016
Invited teacher for the international doctorate school	5011C 2010
University of Udine	Udine, Italy
Machine Learning	2015 - 2016
Commissioned teacher for the master course in Computer Science – International Degree	
University of Udine	Udine, Italy
3D COMPUTER GRAPHICS	2015 - 2016
Commissioned teacher for the master course in Computer Science – International Degree	
University of Udine	Udine, Italy
SMART VISION AND SENSOR NETWORKS Commissioned teacher for the master course in Computer Science – International Degree	2015 - 2016
	Ildian Italy
University of Udine 3D Computer Graphics	Udine, Italy 2013 - 2014
Teaching assistant for the master course in Multimedia Communication and Information Technologies	
University of Udine	Udine, Italy
Video Processing and Transmission	2013 - 2014
Teaching assistant for the master course in Multimedia Communication and Information Technologies	
University of Udine	Udine, Italy
Security in Multimedia Applications	2013 - 2014
Teaching assistant for the bachelor course in Multimedia Science and Technology	
University of Udine	Udine, Italy
Video Processing and Transmission Teaching assistant for the master course in Multimedia Communication and Information Technologies	2011 - 2012

Working Experience

University of Udine

Assistant Professor (tenure track)

University of Udine

POST-DOC FELLOW - SUPERVISOR: PROF. GIAN LUCA FORESTI

- Leading research projects on person re-identification and pattern recognition
- Proposed an aerial video surveillance system that exploits small-scale UAVs to perform environmental monitoring
- Designed a deep learning architecture for food recognition that exploits the vertical layer structure of food dishes
- Proposed a re-identification solution that transfer the knowledge available in the single-person re-identification domain to the group reidentification one

Eye-Tech S.r.l.

Advisory Board Member - Machine Learning Expert

Leading R&D projects on Machine Learning and Computer Vision

- Design and implementation of a protoype software for the automatic evaluation of goalkeepers
- · Design and implementation of an automatic food understanding approach for embedded platforms
- Re-designed the Eye-D software to control the access of sensible areas through biometric identification
- · Supervised the design and engineering of the Smart Person Identification software

University of Udine

POST-DOC FELLOW - SUPERVISOR: PROF. GIAN LUCA FORESTI

Leading research projects on person re-identification and pattern recognition

- Proposed a real-time incremental and geo-referenced solution to build robust mosaicks by means of small-scale UAVs
- Proposed a stochastic optimization-based method to temporally adapt a metric learning model with human in the loop
- Designed a neural tree-based solution that borrows from neural networks and extreme learning machines to self-discover the optimal architecture
- Implemented a person re-identification framework that optimizes the network resources and largely improves the performances of existing solutions

University of Udine

Post-Doc Fellow - Supervisor: Prof. Gian Luca Foresti

Leading research projects on person re-identification

- Designed a re-ranking solution that discovers the visual similarities shared between similar persons and removes them to focus on the relevant re-identification details
- · Designed a re-identification framework to fuse multiple experts re-identification decisions through a probabilistic scheme
- Proposed a framework that exploits visual saliency and learns multiple metrics between different image features

University of Udine

Computer Vision Expert - Supervisor: Prof. Gian Luca Foresti

Unit Leader for the development of a mosaicking software for aerial images acquired by low altitude Unmanned Aerial Vehicles (UAVs). National Project ADVISOR III.

· Supervised the software engineering

• Designed the incremental stitching computer vision solution that exploits GPS-coordinates to perform real time operations

InfoFactory S.r.l.

COMPUTER SYSTEMS ANALYST, DESIGNER AND DEVELOPER

Design of Graphical User Interface for the SRSNet Project funded by the European Commission

- Designed the User Interface through Human-Computer Interaction evaluation procedures
- Development of the computer vision solution to track the targets across different overlapping cameras

MEDIASTUDIO S.r.l.

Computer systems analyst, designer and developer

Design of Graphical User Interface for 3D Software | Design and development of mobile applications

- Development of mobile applications for the design of customized kitchens
- Re-design and re-engineering of the graphical user interface of the software product used to design customized kitchens

MEDIASTUDIO S.r.l.

Computer systems analyst, designer and developer

- Design of Graphical User Interface for 3D Software
- Re-design and re-engineering of the graphical user interface of the software product used to create/draw kitchens objects (i.e., a Computer Aided Design software)

FotocolorMartinelli S.n.c.

GRAPHIC DESIGNER

APRIL 5, 2023

Photo retouching | Dealer

Udine, Italy

Udine, Italy

February 2014 - May 2015

Udine, Italy

June 2010 - December 2011

October 2013 - March 2014

Pordenone, Italy

April 2009 - December 2010

Pordenone, Italy March 2008 - March 2009

Maniago, PN, Italy June 2008 - September 2008

May 2016 - Jan 2018

Udine, Italy

Pordenone, Italy

Udine, Italy

June 2015 - May 2016

December 2015 - May 2017

GRAPHIC DESIGNER Photo retouching | Dealer

National and International Collaborations

University of Adelaide	Adelaide, Australia
Prof. Gustavo Carniero	2018 – To Date
Collaborations with Prof. Gustavo Carniero on reinforcement learning for visual tracking	
Queensland University of Technology	Brisbane, Australia
Dr. Davide Fontanarosa	2018 – To Date
Collaborations with Dr. Davide Fontanarosa on visual tracking in ultrasound images and robotics for surgery application	tions
University of Firenze	Firenze, Italy
Prof. Alberto del Bimbo	2016 – To Date
Collaborations with Prof. Alberto del Bimbo on re-identification solutions proposing single-to-group tansfer learning	gapproaches
University of Pavia	Firenze, Italy
Dr. Giuseppe Lisanti	2016 – To Date
Collaborations with Dr. Giuseppe Lisanti on re-identification solutions proposing single-to-group transfer learning ap	oproaches
University of Ljubljana	Ljubljana, Slovenia
Prof. Danjiel Skocaj	2015 – To Date
Collaborations with Prof. Danjiel Skocaj on incremental learning solutions	
University of Alcala de Henares	Alcala de Henares, Spain
Prof. Alfredo Gardel Vicente	2014 – To Date
Collaborations with Prof. Alfredo Gardel Vicente investigating re-ranking schemes for person re-identification	
Indian Institute of Technology, Kharagpur	Boston, CA, USA
Dr. Abir Das	2012 – To Date
Collaborations with Dr. Abir Das on person re-identification solutions	
University of California at Riverside	Riverside, CA, USA
Prof. Amit K. Roy-Chowdhury	2012 – To Date
Collaborations with Prof. Amit K. Roy-Chowdhury investigating person re-identification solutions grounded on huma	an-in-the-loop and feature
transformation techniques. Other investigated topics include: machine learning; deep learning; convex optimization	; active learning.
International Research Projects	
-	

Office of Naval Research	USA
Co-Principal Investitagor (CoPI) for the research project "Target Re-Association for Autonomous Agents" (TRAAA)	2020 - To Date
European Community - Marie Curie European Training Network project	EU
Member of the research unit of the University of Udine: AdvanCed Hardware/Software Components for Integrated/Embedded Vision SystEms (ACHIEVE)	2017 - To Date
Italian/Singapore Ministry of Defense	Rome, Italy / Singapore, Singapore
Italian/Singapore Ministry of Defense Member/WP responsible of the research unit of the University of Udine: PREscriptive Situational awareness for cooperative auto-organizing aerial sensor NETworks (PRESNET)	Rome, Italy / Singapore, Singapore 2016 - To Date
MEMBER/WP RESPONSIBLE OF THE RESEARCH UNIT OF THE UNIVERSITY OF UDINE: PRESCRIPTIVE SITUATIONAL	

European Community – Interreg IV research project	EU
Member of the research unit of the University of Udine: Smart resource-aware multi-sensor network (SRSnet)	2011 - 2012
European Community – Transnational Cooperation Programme EU-SEE/A/426/1	EU
Member of the research unit of the University of Udine: Inter-regional Cooperation for Valorisation of R&D Results (INTERVALUE)	2009 - 2012
European Defense Agency – Defence R&T Joint Investment Programme on Force Protection - Project A-0444-RT-GC	EU
Member of the research unit of the University of Udine: Distributed and Adaptive Multisensor fusion Engine (DAFNE)	2009 - 2011
European Defense Agency - Defense R&T Joint Investment Program on Force Protection - Project A-0380-RT-GC	EU
Member of the research unit of the University of Udine: Multi-Sensor Antisniper System (MUSAS)	2007 - 2010

National	Research	Projects
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Ergolines Lab s.r.l.	Trieste, Italy
Member/Techical Responsible of the research unit of the University of Udine for the project entitled:	
"Sviluppo, implementazione e validazione di algoritmi di intelligenza artificiale applicati all'analisi dei dati	2020 - 2022
ACQUISITI DA SENSORISTICA CON APPLICAZIONE IN LINGOTTIERA PER MACCHINA DI COLATA CONTINUA ACCIAIO"	
SMACT Scpa	Padova, Italy
Member/Techical Responsible of the research unit of the University of Udine for the project entitled:	2020 - 2021
"Piattaforma IoT per controllo ed analisi qualità data-driven in ambito metallurgico"	2020 2027
Ergolines Lab s.r.l.	Trieste, Italy
-	meste, nuty
Member/Techical Responsible of the research unit of the University of Udine for the project entitled:	2020
"Ricerca e sviluppo di algoritmi di Machine Learning per un loro utilizzo in sistemi tomografici"	
Italian Ministry of Defense	Rome, Italy
Member/Techical Responsible of the research unit of the University of Udine: A proactive counter-UAV	
system to protect army tanks and patrols in urban areas (Proactive Counter-UAV)	2019 - To Date
	T : , , , , , ,
Ergolines Lab s.r.l.	Trieste, Italy
Member/Techical Responsible of the research unit of the University of Udine for the project entitled:	2019 - 2020
"Studi esplorativi di sviluppo di algoritmi di Machine Learning per un loro utilizzo in sistemi tomografici"	
Friuli Venezia-Giulia Region / beanTech Srl	Trieste, Italy
Member/Techical Responsible of the research unit of the University of Udine: Smart Machine Box (SMB)	2018 - To Date
	2010 10 2010
Friuli Venezia-Giulia Region / Wartsila Spa	Trieste, Italy
Member/Techical Responsible of the research unit of the University of Udine: Advanced Tracking of	2018 - To Date
Technical Personnel through Augmented Reality	2018 - 10 Date
Eviuli Vanazia Ciulia Dagian / Daga Dlact Syl	Trianta Italia
Friuli Venezia-Giulia Region / Rosa Plast Srl	Trieste, Italy
Member/Techical Responsible of the research unit of the University of Udine: Collaborative design with	2018 - To Date
Mixed Reality	

Friuli Venezia-Giulia Region / Nuova Contec Srl Member/Techical Responsible of the research unit of the University of Udine: Integrated video analytics system for the inspection of sewer pipes (SVIPCF)	<i>Trieste, Italy</i> 2016 - 2017
Italian Ministry of Defense Member/Techical Responsible of the research unit of the University of Udine: Augmented reality for mobile applications: navigation support for military patrols in high risk areas, advanced visualization of interest points in touristic applications and intelligent recognition of explosive remnant of war (RA2M)	Rome, Italy 2015 - To Date
Italian Ministry of Defense/Friuli Venezia-Giulia Region Member/Techical Responsible of the research unit of the University of Udine: Proactive artificial vision for Advanced UAV systems for protection of military units, territorial control and environmental prevention (SUPReMe)	<i>Rome/Trieste, Italy</i> 2015 - To Date
Italian Ministry of Defense Member of the research unit of the University of Udine: System deployment and automatic network reconfiguration of mobile sensors on UAVs for the protection of convoys, patrols and military installations of (ADVISOR III)	Rome, Italy 2011 - 2013
Italian Ministry of Defense Member of the research unit of the University of Udine: An advanced model for autonomous reconfiguration of a network of active sensors for protection of military camps in abroad missions (ADVISOR II)	Rome, Italy 2008 - 2011

Industrial Projects

Sim2 Multimedia S.p.a.	Pordenone, Italy
Project manger: Design of Graphical User Interface Development of an Adobe Flash \degree -based dynamic system	2009 - 2010
Digital Network Management	2009-2010
Interfaces and Media Content for a Dynamic Digital Signage Network	

Journal Editor_____

Elsevier Microprocessors and Microsystems International Journal HANDLING/Associate Editor Handling/Associate editor for the International Journal on Microprocessors and Microsystem.	Elsevier 2020
IEEE/IET CAAI Transactions on Intelligence Technology	IEE/IET
Associate Editor	2016
Associate editor for the International IEEE-IET Journal CAAI Transactions on Intelligence Technology.	

Reviewing Activities

IEEE

- JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING
- TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE
- TRANSACTIONS ON IMAGE PROCESSING
- TRANSACTIONS ON CYBERNETICS
- TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY
- TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY
- TRANSACTIONS ON MULTIMEDIA
- SIGNAL PROCESSING LETTERS
- ROBOTICS AND AUTOMATION LETTERS
- IEEE Access

Elsevier

- IMAGE AND VISION COMPUTING
- PATTERN RECOGNITION
- Computer Vision and Image Understanding
- PATTERN RECOGNITION LETTERS
- SIGNAL PROCESSING: IMAGE COMMUNICATION
- JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION REGISTRATION
- INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS
- Knowledge-Based Systems
- 3D RESEARCH

ACM

• TRANSACTION ON SENSOR NETWORKS

Springer

• THE VISUAL COMPUTER

IET

- COMPUTER VISION
- IMAGE PROCESSING

SPIE

- JOURNAL OF ELECTRONICAL IMAGING
- Optical Engineering

International Conference/Workshop Organization

General Chair	
International Wokrhsop on Distributed Smart Cameras (IWDSC)	Virtual
	September 2022
International Wokrhsop on Distributed Smart Cameras (IWDSC)	Virtual
	October 2021
Special Session Chair	
International Conference on Image Analysis and Processign (ICIAP)	Lecce, Italy
	May 2022
Multimedia Chair	
ACM International Conference on Distributed Smart Cameras (ICDSC)	Eindhoven, The Netherlands
	September 2018
ACM International Conference on Distributed Smart Cameras (ICDSC)	Stanford, CA, USA
Acia international contenence on Distributed Small Cameras (16056)	September 2017
Publication Chair	
IEEE/ACM International Conference on Distributed Smart Cameras (ICDSC)	Venice, Italy

November 2014

Local Chair	
International Machine Vision Summer School (VISMAC)	Pordenone/Grado, Italy June 2016
International Conference for the Italian Chapter on Pattern Recognition (GIRPR)	Grado (UD), Italy June 2016
Area Chair	
International Conference on Pattern Recognition (ICPR)	Montreal, Canada
	August 2022
International Conference on Pattern Recognition (ICPR)	Milano, Italy
	January 2021
Technical Program Committee	
IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)	Now Orleans Louisiana USA
The finational conference on computer vision and Pattern Recognition (CVPR)	New Orleans, Louisiana, USA June 2022
IEEE International Conference on Computer Vision (ICCV)	Virtual October 2021
IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)	Virtual June 2021
AAAI Conference on Artificial Intelligence (AAAI)	Virtual February 2021
	1 Contrary 2021
IEEE International Conference on Winter Applications of Computer Vision (WACV)	Virtual
	January 2021
Asian Conference on Computer Vision (ACCV)	Kyoto, Japan
	November-December 2020
European Conference on Computer Vision (ECCV)	Edinburgh, Scotland
	August 2020
IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)	Seattle WA, USA
	June 2020
AAAI Conference on Artificial Intelligence (AAAI)	New York NY, USA
	February 2020
IEEE International Conference on Robotics and Automation (ICRA)	Paris, France
	May-June 2020
IEEE International Conference on Computer Vision (ICCV)	Seoul, South Korea
	October-November 2019

IEEE International Conference on Distributed Smart Cameras (ICDSC)

IEEE International Conference on Robotics and Automation (ICRA)

IEEE International Conference on Winter Applications of Computer Vision (WACV)

IEEE International Conference on Distributed Smart Cameras (ICDSC)

International Conference on Pattern Recognition (ICPR)

IEEE International Conference on Winter Applications of Computer Vision (WACV)

International Workshop on on Cross-domain Human Identification (CHI)

International Workshop on Multimedia Assisted Dietary Management (MADIMA)

IEEE International Conference on Image Processing Theory, Tools and Applications (IPTA)

IEEE International Conference on Computer Vision (ICCV)

International Workshop on Assistive Computer Vision and Robotics (ACVR)

IEEE International Conference on Distributed Smart Cameras (ICDSC)

International Symposium on Image and Signal Processing and Analysis (ISPA)

IEEE International Conference on Advanced Video and Signal based Surveillance (AVSS)

IEEE International Conference on Winter Applications of Computer Vision (WACV)

Long Beach CA, USA June 2019

> Trento, Italy September 2019

Montreal, Canada May 2019

Waikoloa Village, HI, USA January 2019

Eindhoven, The Netherlands September 2018

> Beijing, China August 2018

Lake Tahoe, CA, USA March 2018

> Venice, Italy October 2017

Catania, Italy December 2017

Montreal, Canada

December 2017

Venice, Italy October 2017

Venice, Italy October 2017

Stanford, CA, USA September 2017

Ljubljana, Slovenia September 2017

Lecce, Italy

September 2017

Santa Rosa, CA, USA March 2017 ACM International Conference on Distributed Smart Cameras (ICDSC)

IEEE/ACM International Conference on Distributed Smart Cameras (ICDSC)

Skills

Machine Learning

- Neural Networks/Deep Learning, Metric Learning, Neural Trees, Extreme Learning Machines, Support Vector Machines, Dictionary Learning, Incremental Learning, Dimentionality Reduction, Optimization
- Environments/Tools: PyTorch, Torch, Tensorflow, Keras, Python, C/C++, Anaconda, Spyder, Pycharm, ZeroBrane Studio, MATLAB

Computer Vision

- VISUAL UNDERSTANDING/RECOGNITION/DETECTION/TRACKING, FEATURE LEARNING, FEATURE EXTRACTION, FEATURE MATCHING, TEMPORAL ADAPTATIONS
- Environments/Tools: Pytorch, Python, C#, C/C++, Spyder, Pycharm, MATLAB, Visual Studio

Unmanned vehicles

- UGV, UAV, AUTONOMOUS NAVIGATION, VISUAL ANALITYCS
- Environments/Tools: ROS, Python, C#, C/C++, Spyder, Pycharm, Visual Studio, Arduino, RaspberryPi

Programming

- LANGUAGES: PYTHON, C/C++, C#, OBJECTIVE-C, LUA, MATLAB, SQL
- Environments/Tools: Anaconda, Spyder, Pycharm, Visual Studio, XCode, ZeroBrane Studio, SQL Server, MySQL

Web

HTML5, AJAX, PHP, JAVASCRIPT, CSS, SQL

Languages

- ENGLISH: HIGHLY PROFICIENT IN SPOKEN AND WRITTEN
- ITALIAN: NATIVE

Scientific Associations / International Organizations

NATO

Member of the NATO Activity IST-169 Robustness And Accountability In Machine Learning System

NATO

Member of the NATO Activity IST-ET-113 Unsupervised Machine Learning in the Military Domain

Amsterdam, The Netherlands

October 2016

Cancun, Mexico December 2016

> Paris, France September 2016

> Seville, Spain September 2015

Venice, Italy November 2014

Bruxelles, Belgium August 2018 - To Date

Bruxelles, Belgium December 2019 - To Date

IAPR

IEEE

IAPR

Deputy Chief for the Neural Networks and Deep Learning Technical Committee – International Association for Pattern Recognition, Italian Chapter

Member of the Gruppo Italiano Ricercatori in Pattern Recognition (GIRPR) - Affiliated with International

2017 - To Date

2011 - To Date

2011 - To Date

Awards and Grants

Association of Pattern Recognition

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS MEMBER

Office of Naval Research (ONR)	Washington, D.C., USA
RESEARCH GRANT	August 2020
Grant for the project entitled "Target Re-Association for Autonomous Agents" (TRAAA)	·
European Conference on Computer Vision	Virtual
Outstanding Reviewer	September 2020
Award received for having provided more than 7 excellent reviews	
Office of Naval Research (ONR)	Washington, D.C., USA
VISITING FELLOWSHIP	February 2019
Grant for a Visiting Scientist Program	
International Conference on Distributed Smart Cameras	Eindhoven, The Netherlands
Best Paper Award Nomination	September 2018
Nomination received for the work entitled "Unsupervised Hashing with Neural Trees for Image Retrieval a Martinel, G. L. Foresti and C. Micheloni	nd Person Re-Identification" by N.
NVIDIA Corporation	Santa Clara, CA, USA
Research Donation	June 2018
Donation of an NVIDIA GPU for a research project on Unsupervised Learning with Neural Trees	
International Conference on Pattern Recognition	Cancun, Mexico
Best Industry Related Paper Award (BIRPA)	December 2016
Award received for the work entitled "Distributed and Unsupervised Cost-Driven Person Re-identification Micheloni	" by N. Martinel, G. L. Foresti and C.
International Conference on Pattern Recognition	Cancun, Mexico
Best Student Paper Award Candidate	December 2016
"Distributed and Unsupervised Cost-Driven Person Re-identification" by N. Martinel, G. L. Foresti and C. M	icheloni
NVIDIA Corporation	Santa Clara, CA, USA
Research Donation	May 2015
Donation of an NVIDIA GPU for a research project on Neural Trees, Convolutional Neural Networks and Ex	treme Learning Machines
International Conference on Distributed Smart Cameras	Venice, Italy
Best Paper Award	September 2014
Award received for the work entitled "Sparse Matching of Random Patches for Person Re-Identification" b	y N. Martinel and C. Micheloni
Invited Seminars and Talks	

Deep Learning Meetup

DEEP MACHINE VISION

Deep Learning Meetup

NUTS AND BOLTS OF MOBILE FOOD UNDERSTANDING

Ljubljana, Slovenia

April 2019

Ljubljana, Slovenia April 2019

Office of Naval Research/National Research Laboratory	Washington, D.C., USA
A Journey INTO Person Re-Identification	February 2019
University of Milano-Bicocca	<mark>Milano, Italy</mark>
Biologicall-Inspired Hierarchical Learning Architectures for Food Understanding	February 2018
University of Milano-Bicocca	<mark>Milano, Italy</mark>
Fill the Gap for Non-Continuous Long-Term Tracking	February 2018
University of Udine	Udine, Italy
Deep Learning: state-of-the-art and perspectives	September 2017
University of Massachusetts at Lowell	Lowell, MA, USA
Fill the Gap for Non-Continuous Long-Term Tracking	April 2016
University of Ljubljana	Ljubljana, Slovenia
Advances in Person Re-Identification	September 2015

Publications

INTERNATIONAL JOURNALS Consistent attentive dual branch network for person re-identification MUNIR, ASAD AND MARTINEL, NIKI AND MICHELONI, CHRISTIAN 17 (81) 2022 Multimedia Tools and Applications Weakly-Supervised Domain Adaptation of Deep Regression Trackers via Reinforced **Knowledge Distillation** DUNNHOFER, MATTEO AND MARTINEL, NIKI AND MICHELONI, CHRISTIAN 2021 IEEE Robotics and Automation Letters Lord of the Rings: Hanoi Pooling and Self-Knowledge Distillation for Fast and Accurate Vehicle Re-Identification Martinel, Niki and Dunnhofer, Matteo and Pucci, Rita and Foresti, Gian Luca and Micheloni, Christian AUGUST 2021 IEEE Transactions on Industrial Informatics An Intelligent Auto-Organizing Aerial Robotic Sensor Network System for Urban Surveillance Leong, Wai Lun and Martinel, Niki and Huang, Sunan and Micheloni, Christian and Foresti, Gian Luca and 2 (102) 2021 TEO, RODNEY SWEE HUAT Journal of Intelligent and Robotic Systems Deep interactive encoding with capsule networks for image classification Pucci, Rita and Micheloni, Christian and Foresti, Gian Luca and Martinel, Niki 43-44 (79) 2020 Multimedia Tools and Applications Siam-U-Net: encoder-decoder siamese network for knee cartilage tracking in ultrasound images DUNNHOFER, MATTEO AND ANTICO, MARIA AND SASAZAWA, FUMIO AND TAKEDA, YU AND CAMPS, SASKIA AND MARTINEL, (60) 2020 NIKI AND MICHELONI, CHRISTIAN AND CARNEIRO, GUSTAVO AND FONTANAROSA, DAVIDE Medical Image Analysis A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights Avola, Danilo and Cinque, Luigi and Foresti, Gian Luca and Martinel, Niki and Pannone, Daniele and 6 (50) 2020 PICIARELLI, CLAUDIO IEEE Transactions on Systems, Man, and Cybernetics: Systems

Deep Pyramidal Pooling With Attention for Person Re-Identification Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian IEEE Transactions on Image Processing	(29) 2020
From person to group re-identification via unsupervised transfer of sparse features Lisanti, Giuseppe and Martinel, Niki and Micheloni, Christian and Del Bimbo, Alberto and Luca Foresti, Gian Image and Vision Computing	(83-84) 2019
Distributed person re-identification through network-wise rank fusion consensus Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian Pattern Recognition Letters	(124) 2019
Coverage Control of Multiple Unmanned Aerial Vehicles: A Short Review Huang, Sunan and Teo, Rodney and Leong, William and Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian Unmanned Systems	2 (6) 2018
Accelerated low-rank sparse metric learning for person re-identification Martinel, Niкi Pattern Recognition Letters	(112) 2018
An Ensemble Feature Method for Food Classification Martinel, Niki and Piciarelli, Claudio and Micheloni, Christian Machine Graphics and Vision	1 (26) 2017
Discriminant Context Information Analysis for Post-Ranking Person Re-Identification Garcia, Jorge and Martinel, Niki and Gardel, Alfredo and Bravo, Ignacio and Foresti, Gian Luca and Micheloni, Christian IEEE Transactions on Image Processing	4 (26) 2017
Person Reidentification in a Distributed Camera Network Framework Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian IEEE Transactions on Cybernetics	11 (47) 2017
A supervised extreme learning committee for food recognition Martinel, Niki and Piciarelli, Claudio and Micheloni, Christian Computer Vision and Image Understanding	(148) 2016
Modeling feature distances by orientation driven classifiers for person re-identification García, Jorge and Martinel, Niki and Gardel, Alfredo and Bravo, Ignacio and Foresti, Gian Luca and Micheloni, Christian Journal of Visual Communication and Image Representation	(38) 2016
A Pool of Multiple Person Re-Identification Experts Martinel, Niki and Micheloni, Christian and Foresti, Gian Luca Pattern Recognition Letters	(71) 2016
On a Distributed Video Surveillance System to Track Persons in Camera Networks Martinel, Niкi ELCVIA Electronic Letters on Computer Vision and Image Analysis	3 (14) 2015
Kernelized Saliency-Based Person Re-Identification Through Multiple Metric Learning Martinel, Niki and Micheloni, Christian and Foresti, Gian Luca IEEE Transactions on Image Processing	12 (24) 2015
The Evolution of Neural Learning Systems: A Novel Architecture Combining the Strengths of NTs, CNNs, and ELMs Martinel, Niki and Micheloni, Christian and Foresti, Gian Luca IEEE Systems, Man, and Cybernetics Magazine	3 (1) 2015
Classification of Local Eigen-Dissimilarities for Person Re-Identification Martinel, Niki and Micheloni, Christian IEEE Signal Processing Letters	4 (22) 2015

Re-Identification in the Function Space of Feature Warps Martinel, Niki and Das, Abir and Micheloni, Christian and Roy-Chowdhury, Amit K. IEEE Transactions on Pattern Analysis and Machine Intelligence	8 (37) 2015
Person re-identification by modelling principal component analysis coefficients of	
image dissimilarities	
Martinel, N. and Micheloni, C. Electronics Letters	14 (50) 2014
Camera Selection for Adaptive Human-Computer Interface	
Martinel, Niki and Micheloni, Christian and Piciarelli, Claudio and Foresti, Gian Luca IEEE Transactions on Systems, Man, and Cybernetics: Systems	5 (44) 2014
Robust Painting Recognition and Registration for Mobile Augmented Reality	
Martinel, Niki and Micheloni, Christian and Foresti, Gian Luca IEEE Signal Processing Letters	11 (20) 2013
Multi-signature based person re-identification	
Martinel, N. and Foresti, G.L. Electronics Letters	13 (48) 2012
INTERNATIONAL CONFERENCES	
Cloth-Changing Person Re-identification with Self-Attention	
Bansal, Vaibhav and Foresti, Gian Luca and Martinel, Niki 2022 IEEE/CVF Winter Conference on Applications of Computer Vision Workshops (WACVW)	jan, 2022
Pro-CCaps: Progressively Teaching Colourisation to Capsules	
Pucci, Rita and Micheloni, Christian and Foresti, Gian Luca and Martinel, Niki 2022 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)	jan, 2022
CVGAN: Image Generation with Capsule Vector-VAE	
Pucci, Rita and Micheloni, Christian and Foresti, Gian Luca and Martinel, Niki International Conference on Image Analysis and Processing	, 2022
Improving MRI-based Knee Disorder Diagnosis with Pyramidal Feature Details	
DUNNHOFER, MATTEO AND MARTINEL, NIKI AND MICHELONI, CHRISTIAN Medical Imaging with Deep Learning	, 2021
Collaborative Image and Object Level Features for Image Colourisation	
Pucci, Rita and Micheloni, Christian and Martinel, Niki 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)	jun, 2021
Self-Attention Agreement Among Capsules	
Pucci, Rita and Micheloni, Christian and Martinel, Niki 2021 IEEE/CVF International Conference on Computer Vision Workshops (ICCVW)	oct, 2021
Where Did I See It? Object Instance Re-Identification with Attention	
Bansal, Vaibhav and Foresti, Gian Luca and Martinel, Niki 2021 IEEE/CVF International Conference on Computer Vision Workshops (ICCVW)	oct, 2021
Oriented Splits Network to Distill Background for Vehicle Re-Identification	
MUNIR, ASAD AND MARTINEL, NIKI AND MICHELONI, CHRISTIAN	nov, 2021
2021 17th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)	
An Exploration of Target-Conditioned Segmentation Methods for Visual Object Trackers Dunnhofer, Matteo and Martinel, Niki and Micheloni, Christian	, 2020
Eureopan Conference on Computer Vision Workshops	,
Multi Branch Siamese Network for Person Re-Identification	
MUNIR, ASAD AND MARTINEL, NIKI AND MICHELONI, CHRISTIAN	, 2020
International Conference on Image Processing	
Is It a Plausible Colour ? UCapsNet for Image Colourisation	2020
Pucci, Rita and Micheloni, Christian and Foresti, Gian Luca and Martinel, Niki Neural Information Processing Systems Workshops	, 2020

Self and Channel Attention Network for Person Re-Identification	
Munir, Asad and Martinel, Niki and Micheloni, Christian International Conference on Pattern Recognition	, 2020
Fixed simplex coordinates for angular margin loss in CapsNet	
Pucci, Rita and Micheloni, Christian and Foresti, Gian Luca and Martinel, Niki International Conference on Pattern Recognition	, 2020
Tracking-by-Trackers with a Distilled and Reinforced Model	
Dunnhofer, Matteo and Martinel, Niki and Micheloni, Christian Asian conference on Computer Vision	jul, 2020
Integrated Perception and Tactical Behaviours in an Auto-Organizing Aerial Sensor Network	
Leong, W L and Martinel, N and Huang, S and Micheloni, C and Foresti, G L and Teo, R International Conference on Unmanned Aircraft Systems	, 2020
The Seventh Visual Object Tracking VOT2019 Challenge Results	
KRISTAN, M. AND MATAS, J. AND LEONARDIS, A AND FELSBERG, M. AND PFLUGFELDER, R. AND KAMARAINEN, J-K. AND	, 2019
Сеноvin, L. and Drbohlav, O. and Lukezic, A. and Berg, А. and Eldesokey, А. International Conference on Computer Vision Workshops	
Visual Tracking by means of Deep Reinforcement Learning and an Expert Demonstrator	
Dunnhofer, Matteo and Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian	, 2019
International Conference on Computer Vision Workshops	
Video-Based Convolutional Attention for Person Re-Identification Zamprogno, Marco and Passon, Marco and Martinel, Niki and Serra, Giuseppe and Micheloni, Christian and	
Tasso, Carlo and Foresti, Gian Luca	, 2019
International Conference on Image Analysis and Processing	
An Exploration of the Interaction Between capsules with ResNetCaps models	
Pucci, Rita and Micheloni, Christian and Roberto, Vito and Foresti, Gian Luca and Martinel, Niki International Conference on Distributed Smart Cameras	, 2019
An Efficient Artificial Intelligence Framework for UAV Systems	
Togootogtokh, Enkhtogtokh and Huang, Sunan and Leong, Wai Lun and Teo, Rodney and Foresti, Gian Luca	, 2019
and Micheloni, Christian and Maritnel, Niki International Conference on Ubi-Media Computing	, 2010
Aggregating Deep Pyramidal Representations for Person Re-Identification	
Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian	, 2019
International Conference on Computer Vision and Pattern Recognition	
Unsupervised Hashing with Neural Trees for Image Retrieval and Person Re-Identification	
Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian	, 2018
International Conference on Distributed Smart Cameras	
Unsupervised Smoke Detection in Normally Smoking Environments Chini, Matteo and Martinel, Niki and Dunnhofer, Matteo and Ceschia, Carlo and Micheloni, Christian	, 2018
International Conference on Distributed Smart Cameras	,2010
Wide-Slice Residual Networks for Food Recognition	
Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian	, 2018
Winter Conference on Applications of Computer Vision	
Person Re-Identification via Unsupervised Transfer of Learned Visual Representations Martinel, Niki and Dunnhofer, Matteo and Foresti, Gian Luca and Micheloni, Christian	, 2017
International Conference on Distributed Smart Cameras	, 2011
Temporally Smoothed Anomaly Detection in Continuous Fluids	
CHINI, MATTEO AND MARTINEL, NIKI AND SPAGNUL, STEFANO AND MICHELONI, CHRISTIAN	, 2017
International Conference on Distributed Smart Cameras	

Real-Time Incremental and Geo-Referenced Mosaicking by Small-Scale UAVs Avola, Danilo and Foresti, Gian Luca and Martinel, Niki and Micheloni, Christian and Pannone, Daniele and	, 2017
PICIARELLI, CLAUDIO International Conference on Image Analysis and Processing	
Aerial Video Surveillance System for Small-Scale UAV Environment Monitoring	
Avola, Danilo and Foresti, Gian Luca and Martinel, Niki and Micheloni, Christian and Pannone, Daniele and	, 2017
Piciarelli, Claudio Advanced Video and Signal-Based Surveillance	
Group Re-Identification via Unsupervised Transfer of Sparse Features Encoding	
LISANTI, GIUSEPPE AND MARTINEL, NIKI AND DEL BIMBO, ALBERTO AND FORESTI, GIAN LUCA	, 2017
International Conference on Computer Vision Mobile Food Recognition with an Extreme Deep Tree	
Martinel, Niki and Piciarelli, Claudio and Foresti, Gian Luca and Micheloni, Christian	, 2016
International conference on Distributed Smart Cameras	
Distributed and Unsupervised Cost-Driven Person Re-identification	2010
Martinel, Niki and Foresti, Gian Luca and Micheloni, Christian International Conference on Pattern Recognition	, 2016
Temporal Model Adaptation for Person Re-Identification	
Martinel, Niki and Das, Abir and Micheloni, Christian and Roy-Chowdhury, Amit K.	, 2016
European Conference on Computer Vision	
Selection of temporal features for event detection in smart security Martinel, N. and Avola, D. and Piciarelli, C. and Micheloni, C. and Vernier, M. and Cinque, L. and Foresti, G.L.	, 2015
International Conference on Image Analysis and Processing	
On filter banks of texture features for mobile food classification	
Martinel, N. and Piciarelli, C. and Micheloni, C. and Foresti, G.L. ACM International Conference Proceeding Series	, 2015
Person re-identification ranking optimisation by discriminant context information	
analysis	
Garcia, J. and Martinel, N. and Micheloni, C. and Gardel, A. International Conference on Computer Vision	, 2015
A Structured Committee for Food Recognition	
Martinel, Niki and Piciarelli, Claudio and Micheloni, Christian and Foresti, Gian Luca	, 2015
International Conference on Computer Vision Workshops	
Person Re-Identification Ranking Optimisation by Discriminant Context Information Analysis	
Garcia, Jorge and Martinel, Niki and Micheloni, Christian and Gardel, Alfredo	, 2015
International Conference on Computer Vision	
On Filter Banks of Texture Features for Mobile Food Classification	2015
Martinel, Niki and Piciarelli, Claudio and Micheloni, Christian and Foresti, Gian Luca International Conference on Distributed Smart Cameras	, 2015
Selection of Temporal Features for Event Detection in Smart Security	
Martinel, Niki and Avola, Danilo and Piciarelli, Claudio and Micheloni, Christian and Vernier, Marco and Cinque, Luigi and Foresti, Gian Luca	, 2015
International Conference on Image Analysis and Processing	
Sparse Matching of Random Patches for Person Re-Identification	
Martinel, Niki and Micheloni, Christian International Conference on Distributed Smart Cameras	, 2014
Mobile Re-Identification Based on Local Features Analysis	
Akhtar, Zahid and Martinel, Niki and Micheloni, Christian and Foresti, Gian Luca	, 2014
International Conference on Distributed Smart Cameras	

Saliency Weighted Features for Person Re-identification	
Martinel, Niki and Micheloni, Christian and Foresti, Gian Luca	, 2014
European Conference Computer Vision Workshops and Demonstrations	
Person Orientation and Feature Distances Boost Re-identification	
Garcia, Jorge and Martinel, Niki and Foresti, Gian Luca and Gardel, Alfredo and Micheloni, Christian International Conference on Pattern Recognition	aug, 2014
Image processing supports HCI in museum application	
Martinel, N. and Vernier, M. and Foresti, G.L. and Lamedica, E. VISAPP 2013 - Proceedings of the International Conference on Computer Vision Theory and Applications	, 2013
Remote feature learning for mobile re-identification	
Vernier, Marco and Martinel, Niki and Micheloni, Christian and Foresti, Gian Luca International Conference on Distributed Smart Cameras	oct, 2013
Learning pairwise feature dissimilarities for person re-identification	
Martinel, Niki and Micheloni, Christian and Piciarelli, Claudio International Conference on Distributed Smart Cameras	oct, 2013
Outdoor environment monitoring with unmanned aerial vehicles	
Piciarelli, Claudio and Micheloni, Christian and Martinel, Niki and Vernier, Marco and Foresti, Gian Luca International Conference on Image Analysis and Processing	, 2013
Image Processing Supports HCI in Museum Application	
Martinel, Niki and Vernier, Marco and Foresti, Gian Luca and Lamedica, Elisabetta International Conference on Computer Vision Theory and Applications	feb, 2013
Distributed signature fusion for person re-identification	
Martinel, N. and Micheloni, C. and Piciarelli, C. 2012 6th International Conference on Distributed Smart Cameras, ICDSC 2012	, 2012
Distributed Signature Fusion for Person Re-Identification	
Martinel, Niki and Micheloni, Christian and Piciarelli, Claudio International conference on Distributed Smart Cameras	, 2012
Re-identify people in wide area camera network	
Martinel, Niki and Micheloni, Christian 2012 IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops	jun, 2012
A Multi-Modal Self-Reconfigurable Surveillance System	
Martinel, Niki and Micheloni, Christian and Piciarelli, Claudio and Foresti, Gian Luca Convegno GIRPR	may, 2012
Pre-Emptive camera activation for Video Surveillance HCI	
Martinel, Niki and Micheloni, Christian and Piciarelli, Claudio Intenational Conference on Image Analysis and Processing	sep, 2011
Book Chapters	
Low-Level Feature Detectors and Descriptors for Smart Image and Video Analysis: A Comparative Study	Springer
Avola, D., Cinque, L., Foresti, G. L., Martinel, N., Pannone, D., and Piciarelli, C. Bridging the Semantic Gap in Image and Video Analysis – H. Kwaśnicka and L. C. Jain (Eds.)	2018
Distributed mobile computer vision: Advances, challenges and applications	Springer
MARTINEL, N., PRATI, A., AND MICHELONI, C Distributed Embedded Smart Cameras: Architectures, Design and Applications – C. Bobda and S. Velipasalar (Eds.)	2014
Advanced artificial vision and mobile devices for new applications in learning,	Wiley-ISTE
entertainment and cultural heritage domains	-
Foresti, G. L., Martinel, N., Micheloni, C., and Vernier, M. Interdisciplinary Mechatronics: Engineering Science and Research Development – M. K. Habib and J. P. Davim (Eds.)	2013

I states, to be informed, in accordance with and for purposes of the Italian Art. 13 of Legislative Decree 196/2003, that the collected personal data will be treated, including by computer, in proceedings to which this declaration is made. Udine, April 5, 2023