Curriculum Vitae

Personal Information

Name	Pierluigi Zama Ramirez, PhD
Date of Birth	*December 29th, 1992*
Citizenship	*Italian*
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Code	https://github.com/pierlui92
Google Scholar	https://scholar.google.com/citations?user=OAYAmKYAAAAJ&hl=it
ResearchGate	https://www.researchgate.net/profile/Pierluigi-Zama-Ramirez-2
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57209021298
Semantic Scholar	https://www.semanticscholar.org/author/Pierluigi-Zama-Ramirez/80804241
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About Me

Short Bio   I have received the M.S. degree in Computer Engineering and the Ph.D. in Computer Engineering from the University of Bologna (Italy), in 2017 and 2021 respectively. I am currently a Post-Doctoral Research Fellow ("Assegnista di Ricerca") at the Department of Computer Science and Engineering (DISI) of the University of Bologna. I am covering the role of Adjunct Professor ("Professore a Contratto") in the same department.

Research Interests

Deep Perception from RGB and Other Sensors   Inferring scene properties from data captured by sensors such as RGB cameras, LiDARs, or Multi-Spectral cameras, is essential to any vision applications. The set of tasks addressing this goal by means of deep neural networks is named *Deep Perception*. In my research, I have developed novel techniques for many of these tasks, ranging from semantic segmentation, depth estimation, optical flow, camera pose estimation, camera calibration, and registration. Examples of publications in this field are [P2], [P5], [P7], [P10], and [P11].

3D Computer Vision   Since the early days of computer vision, researchers have been processing images stored as two-dimensional grids of pixels carrying intensity or color measurements. But the world that surrounds us is 3D, motivating researchers to try to process also 3D data sensed/reconstructed from surfaces. In my research, I have developed novel approaches for point cloud classification and segmentation. Moreover, recently, I investigated a novel research direction, i.e., applying deep learning to 3D data represented as neural implicit functions. Examples of publications in this field are [P6], [P14].

Weakly Supervised Learning   Machine learning and deep learning approaches require many training data with annotation to perform accurately in unseen environments. However, collecting such annotations is a time-consuming and tedious task. In my research, I developed several techniques to address this problem, ranging from transfer learning, unsupervised domain adaptation, self-supervised techniques, or representation learning approaches. Examples of publications in this field are [P3], and [J2].

Education

2017 – 2021   **Ph.D.** in Computer Science and Engineering *(Bologna, Italy)*
Fundings: T3Lab
PhD Thesis: *"Deep Scene Understanding with Limited Training Data."* approved after examination by Prof. Gabriel Brostow and Prof. Elisa Ricci.
Thesis available at: http://amsdottorato.unibo.it/9815/1/zamaramirez_pierluigi_tesi.pdf
Supervisor: Prof. Luigi Di Stefano

2019   International Computer Vision Summer School *(Sicily, Italy)*

2017   International Summer School on Deep Learning *(Bilbao, Spain)*

2014 – 2017   **Master Degree** in Computer Science and Engineering *(Bologna, Italy)*
110L/110 - Magna cum Laude
Thesis: *"Estimation of depth and semantics by a CNN trained on computer-generated and real data"*
Supervisor: Prof. Luigi Di Stefano

2011 – 2014   **Bachelor Degree** in Computer Science and Engineering *(Bologna, Italy)*
110L/110 - Magna cum Laude
Thesis: *"Control of peripheral devices mapped on a Zynq platform with Linux"*
Supervisor: Prof. Stefano Mattoccia

Work Experience

03/2022 – Now   **Postdoctoral Researcher** @ "Department of Computer Science and Engineering (DISI)" *(Bologna, Italy)*

Fund Manager & Advisor: Luigi Di Stefano.

Reseach Topics: The proposed research aims to develop deep learning-based methodologies for the 3D scene reconstruction of non-Lambertian surfaces, e.g., transparent objects or mirrors. Accurately estimating the geometry of such surfaces is extremely important for many applications such as grasping and autonomous vehicles.

Papers and Code: Until now, we have submitted a new dataset paper ([U2]) for benchmarking methods on this challenging scenario, and a novel approach ([U4]) to address the aforementioned problem

03/2021 – 03/2022   **Postdoctoral Researcher** @ "Department of Computer Science and Engineering (DISI)" *(Bologna, Italy)*

Funding: Huawei Technologies Co. Ltd.

Advisors: Prof. L. Di Stefano, Prof. S. Mattoccia, Dr. M. Poggi, Prof. S. Salti

Collaborator: Dr. Fabio Tosi

Research Topic: Developed a new core technology for accurately registering two images captured by different modalities, such as an RGB and a multi-spectral (MS) sensor, using self-supervised deep learning techniques. The technology estimated the optical flow field between the images by finding a 2D vector field that mapped pixels from one image to the corresponding pixels in the other.

Scientific Deliverables: The following is a list of the scientific deliverables produced in the project. These deliverables include flow estimation methods for different sensor combinations, a live demo of flow estimation, a feasibility study report, an online adaptive flow estimation method, evaluation methodologies and acquisition setup definition, a large annotated dataset with ground truth, and a protocol for evaluating the performance of developed methodologies:

- D.1.1: Flow estimation method for heterogeneous RGB sensors
- D.1.2: Flow estimation method for an RGB and a multi-spectral (MS) camera
- D.1.3: Live demo of flow estimation from heterogeneous RGB sensors
- D.1.4: Feasibility study report on flow estimation from RGB and event-based cameras
- D.1.5: On-line adaptive flow estimation method from an RGB camera and an MS sensor
- D.2.1: Evaluation methodologies and acquisition setup definition
- D.2.2: Large annotated dataset with ground truth
- D.2.3: Protocol for evaluating the performance of developed methodologies

Papers and Code: In this project, 4 papers were published at the CVPR and 3DV conferences, [P7], [P10], [P11], [P12]. One of these papers received the best honorable mention award at the 3DV 2021 conference, [P7].

20/04/2020 – 20/09/2020 **Research Intern** @ "Google Zurich" *(Zurich, Switzerland)*

Supervisor: Prof. Federico Tombari

Research Topic: Development of a new technology for synthesizing novel views of an object given a single image depicting it. Such technology could be useful in many application fields such as augmented and virtual reality or image editing.

Papers: In this project, we developed the first unsupervised novel view synthesis method from a single image, [U1], https://arxiv.org/abs/2102.03285

01/11/2017 – 01/05/2018 **Research Projec**t @ "Department of Computer Science and Engineering (DISI) *(Bologna, Italy)*

Title: AIDA - Adaptive Industrial Automation Through Cyber-Physical Vision System

Supervisor: Prof. Luigi Di Stefano

External Supervisor: Claudio Salati (T3Lab - https://www.t3lab.it/), Claudio Saporetti (Datalogic - https://www.datalogic.com/)

Description: AIDA is a co-funded Emilia-Romagna Region project for Industry 4.0.

Website: https://www.youtube.com/watch?v=UB00XwW5Gz4&t=47s

Role: Development of a deep learning architecture aimed at detecting hazardous materials and estimating the orientation of packages on an industrial carry roller.

01/07/2017 – 31/10/2017 **Scholarship** @ Bierrebi *(Bologna, Italy)*

Advisor: Luigi Di Stefano

Role: During the scholarship, two technologies have been developed:
- A pattern recognition technique, based on handcrafted features, to detect defects in fabrics on an industrial carry roller.
- A new and cheap calibration technique for linear cameras.

Awards

2021 **Best Paper Honorable Mention** to our work *"Neural Disparity Refinement for Arbitrary Resolution Stereo"* - International Conference on 3D Vision (**3DV 2021**) (https://3dv2021.surrey.ac.uk/prizes/)

Technologies & Languages

Languages Italian: Mothertongue

English, CEFR: C1, IELTS, 11/02/2017, Overall Brand 7.0/9.0

	Spanish, CEFR: B2
Programming languages	C, C++, C#, Java, Python, Lua, Scala, Prolog, VHDL, LateX
CV and ML frameworks	OpenCV, Tensorflow, PyTorch
Graphics	Blender, Unity
Development	VS, VS Code, Git

Teaching Activities

2023 - Now	**Adjunct Professor**, Fundamentals of Computer Science (Module 2) @ Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" (Bologna) (https://www.unibo.it/it/didattica/insegnamenti/insegnamento/2022/483848)
2022	**PhD Course Teacher**, "*Deep Scene Understanding From Images*", PhD course in Computer Science and Engineering, University of Bologna (Bologna, Italy) with Dr. Matteo Poggi and Dr. Fabio Tosi, May 2022, 20 hours. (https://cvlab-unibo.github.io/deep_scene_understanding_from_images/)
2022 – Now	**Teaching Assistant**, "Reti Logiche T - Automation, Electronic, and Telecommunication Engineering", @ University of Bologna *(Bologna, Italy)* with Prof. Tullio Salmon Cinotti, ~ 180 students
2019 – Now	**Teaching Assistant**, "Computer Vision and Image Processing - Computer Science and Engineering", @ University of Bologna *(Bologna, Italy)* with Prof. Luigi Di Stefano, ~ 150 students

Co-Supervised Students (Non-Exhaustive List)

Bachelor Thesis	
Pumilia, Andrea	"Metodologie di Corrispondenza Stereo Basate su Deep Learning per Superfici Altamente Riflettenti e Trasparenti: Dataset e Architettura"
Chiarini, Alessandro	"Procedural generation of a city model for training neural networks"
Zoffoli, Mattia	"An Analysis of Training a Deep Object Detector with Synthetic Data"
Nadalini, Alessandro	"Procedural Generation of 3D city models with Blender"
Fabiani, Federico	"Semantic segmentation of ulcers by deep convolutional neural networks"
Damato, Alessandro	"Synthetic urban dataset generation through Blender"
Malizia, Chiara	"Convolutional Neural Networks for product sorting in fruit and vegetable sector"
Lella, Luigi	"Tool for annotating 3D data in Virtual Reality"
Master Thesis	
Malizia, Chiara	"High-Resolution Monocular Depth Estimation with Stereo Proxy Supervision"
Menchetti, Daniele	"Domain adaptation per classificazione di pointcloud mediante pseudo-annotazioni"
Costanzino, Alex	"Mitigating non-Lambertian surfaces issues in Stereo Matching with Neural Radiance Fields"
Carloni, Gaia	"Deep refinement of a deep semantic segmentation network"
Domeniconi, Federico	"Deep Photometric Stereo"
Paternesi, Claudio	"3D Semantic Labeling by Virtual Reality"
Cardace, Adriano	"Learning Features Across Tasks and Domains"
Internships	
Lella, Luigi	"Perfezionamento, ingegnerizzazione e validazione sperimentale di un tool innovativo per l'annotazione di dati 3D basato su Virtual Reality (VR)"
Carboni, Ilenia	"Interfacciamento di occhiali smart RayBan Stories e acquisizione di un dataset stereo"
Mostafa, Hazem Mohamed Hassan	"Acquisizione di un dataset stereo in ambiente outdoor utilizzato per l'allenamento di una rete neurale per stereo-matching tramite algoritmi proxy-supervised."

Organization of Workshops

[W1] *"NTIRE 2023: 8th New Trends in Image Restoration and Enhancement Workshop and Challenges"*, **CVPR 2023** (Vancouver, Washington) [https://cvlab-unibo.github.io/booster-web/ntire][https://cvlai.net/ntire/2023/] - **Role:** Organizer

Track 1 - HR Depth from Images of Specular and Transparent Surfaces - Stereo [https://codalab.lisn.upsaclay.fr/competitions/10494]

Track 2 - HR Depth from Images of Specular and Transparent Surfaces - Mono [https://codalab.lisn.upsaclay.fr/competitions/10502]

Live Presentations at Workshops and Conferences

2023

Vancouver, Canada | Presentation of [P15], [P16], and [W1] at the Computer Vision and Pattern Recognition Conference (CVPR) 2023.

Kigali, Rwanda | The ICLR 2023 work, [P14], was selected to be presented at the "Neural Fields across Fields: Methods and Applications of Implicit Neural Representations" workshop held in conjunction with ICLR 2023.

2022

New Orleans, USA | Poster presentation of [P10] and [P11] at the Computer Vision and Pattern Recognition Conference (CVPR) 2022.

2021

Online | Poster presentation of [P6] and [P7] at the International Conference on 3D Vision (3DV) 2021.

2020

Online | Oral presentation of [P4] at the 3rd International Conference on Artificial Intelligence & Virtual Reality.

Online | Poster presentation of [P6] at the Computer Vision and Pattern Recognition Conference (CVPR) 2020.

2019

Seoul, Korea | Poster presentation of [P3] at the International Conference on Computer Vision (ICCV) 2021

Los Angeles, USA | Poster presentation of the work "Shooting Labels by Virtual Reality", at the Third Workshop on Computer Vision for AR/VR, held in conjunction with CVPR 2019. Related Paper: https://static1.squarespace.com/static/5c3f69e1cc8fedbc039ea739/t/5d01638662182d0001b6f7f6/1560372111582/9_CVPR_2019_VR.pdf

2018

Perth, Australia | Poster presentation of [P2] at the 14th Asian Conference on Computer Vision

Nice, France | Oral presentation of [P1] at the Third IEEE International Image Processing, Applications and Systems Conference

Bologna, Italy | Poster presentation of the work "Novel Generative Model to Synthetize Realistic Training Images" at SIAM Conference on Imaging Science 2018, https://www.siam-is18.dm.unibo.it/presentations/874.html

Bologna, Italy | Oral presentation of the work "Large Scale 3D Semantic Mapping. European Machine Vision Association Forum" at the European Machine Vision Forum (EMVA) 2018

Bologna, Italy | Oral presentation of the work "Domain Adaptation by a Semantic-Aware GAN" at the European Machine Vision Forum (EMVA) 2018

Past and Ongoing Collaborations

Google Zurich – Switzerland (Dr. Alessio Tonioni, Prof. Federico Tombari) *publications*

Huawei – Finland (Jussi Yli-Äyhö) *research projects*

Eyecan.ai – Bologna (Daniele De Gregorio) *publications*

ETH – Switzerland (Prof. Radu Timofte) *workshop organization*

Reviewing Services

CVPR - IEEE Conference on Computer Vision and Pattern Recognition (2021,2022,2023)
ECCV - European Conference on Computer Vision (2022)
ICCV - IEEE International Conference on Computer Vision (2021,2023)
WACV - IEEE/CVF Winter Conference on Applications of Computer Vision (2022)
IROS - IEEE/RSJ International Conference on Intelligent Robots and Systems (2018, 2023)
ECAI - European Conference on Artificial Intelligence (2020)
NTIRE - New Trends in Image Restoration and Enhancement Workshop and Challenges (2023)

Publications

All publications are peer-reviewed conference or journal publications and top tier in the respective field. **ICCV**, **ICLR**, and **CVPR** are highly competitive with acceptance rates of less than 30%. **CVPR** and **TPAMI** are the most highly cited IEEE conference (https://research.com/conference-rankings/computer-science) and journal (https://research.com/journals-rankings/computer-science) with the highest impact in Engineering and Computer Science. **CVPR**, **ICLR** and **ICCV** are among the seven most impactful conferences in all of computer science. * indicates *Joint first authorship*.

Citation Indices   *Number of Citations:* 289 (Google Scholar), 88 (Scopus), 208 (ResearchGate)

i10-Index: 7 (Google Scholar)

h-Index: 8 (Google Scholar)

Accessed: 16.06.2023

Journals

[J2]   **P. Zama Ramirez***, A. Cardace*, L. D. Luigi*, A. Tonioni, S. Salti and L. D. Stefano, "Learning Good Features to Transfer Across Tasks and Domains," in IEEE Transactions on Pattern Analysis and Machine Intelligence, https://doi.org/10.1109/TPAMI.2023.3240316.

[J1]   D. De Gregorio, M. Poggi, **P. Zama Ramirez**, G. Palli, S. Mattoccia and L. Di Stefano, "Beyond the Baseline: 3D Reconstruction of Tiny Objects With Single Camera Stereo Robot," in IEEE Access, vol. 9, pp. 119755-119765, 2021, https://doi.org/10.1109/ACCESS.2021.3108626.

Proceedings

[P16]   **P. Zama Ramirez**, F. Tosi, L. Di Stefano, R. Timofte, A. Costanzino, M. Poggi, S. Salti, S. Mattoccia, J. Shi, D. Zhang, Y. A, Y. Jin, D. Li, C. Li, Z. Liu, Q. Zhang, Y. Wang, S. Yin, , *"NTIRE 2023 Challenge on HR Depth From Images of Specular and Transparent Surfaces"*. 2023, IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2023, pp. 1384-1395. https://openaccess.thecvf.com/content/CVPR2023W/NTIRE/papers/Ramirez_NTIRE_2023_Challenge_on_HR_Depth_From_Images_of_Specular_CVPRW_2023_paper.pdf

[P15]   A. Cardace, **P. Zama Ramirez**, S. Salti and L. Di Stefano, *"Exploiting the Complementarity of 2D and 3D Networks to Address Domain-Shift in 3D Semantic Segmentation"*, 2023, IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, pp. 98-109 https://openaccess.thecvf.com/content/CVPR2023W/WAD/papers/Cardace_Exploiting_the_Complementarity_of_2D_and_3D_Networks_To_Address_CVPRW_2023_paper.pdf

[P14]   L. De Luigi* and A. Cardace* and R. Spezialetti* and **P. Zama Ramirez** and S. Salti and L. Di Stefano, "Deep Learning on Implicit Neural Representations of Shapes", The Eleventh International Conference on Learning Representations (**ICLR**), 2023, https://openreview.net/forum?id=OoOIW-3uadi

[P13]   A. Cardace, R. Spezialetti, **P. Zama Ramirez**, S. Salti and L. D. Stefano, "Self-Distillation for Unsupervised 3D Domain Adaptation," 2023 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Waikoloa, HI, USA, 2023, pp. 4155-4166, https://doi.org/10.1109/WACV56688.2023.00415.

[P12] M. Poggi*, **P. Zama Ramirez***, F. Tosi*, S. Salti, L. Di Stefano, S. Mattoccia, *"Cross-Spectral Neural Radiance Fields"*, at the 2022 International Conference on 3D Vision (3DV), Prague, Czech Republic, 2022, pp. 606-616, https://doi.org/10.1109/3DV57658.2022.00071.

[P11] **P. Zama Ramirez***, F. Tosi*, M. Poggi*, S. Salti, L. Di Stefano, S. Mattoccia, *"Open Challenges in Deep Stereo: the Booster Dataset"*, 2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022, pp. 21136-21146, https://doi.org/10.1109/CVPR52688.2022.02049.

[P10] F. Tosi*, **P. Zama Ramirez***, M. Poggi*, S. Salti, L. Di Stefano, S. Mattoccia, *"RGB-Multispectral Matching: Dataset, Learning Methodology, Evaluation"*2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022, pp. 15937-15947, https://doi.org/10.1109/CVPR52688.2022.01549.

[P9] A. Cardace, L. De Luigi, **P. Zama Ramirez**, S. Salti and L. Di Stefano, "Plugging Self-Supervised Monocular Depth into Unsupervised Domain Adaptation for Semantic Segmentation," 2022 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Waikoloa, HI, USA, 2022, pp. 1999-2009, https://doi.org/10.1109/WACV51458.2022.00206.

[P8] A. Cardace, **P. Zama Ramirez**, S. Salti and L. Di Stefano, "Shallow Features Guide Unsupervised Domain Adaptation for Semantic Segmentation at Class Boundaries," 2022 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Waikoloa, HI, USA, 2022, pp. 2010-2020, https://doi.org/10.1109/WACV51458.2022.00207.

[P7] F. Aleotti*, F. Tosi*, **P. Zama Ramirez***, M. Poggi, S. Salti, L. Di Stefano, S. Mattoccia, *"Neural Disparity Refinement for Arbitrary Resolution Stereo"*, 2021 International Conference on 3D Vision (**3DV**), 2021, pp. 207-217, https://doi.org/10.1109/3DV53792.2021.00031. (**ORAL**) (**Best Paper Honarable Mention Award**)

[P6] A. Cardace, R. Spezialetti, **P. Zama Ramirez**, S. Salti and L. D. Stefano, "RefRec: Pseudo-labels Refinement via Shape Reconstruction for Unsupervised 3D Domain Adaptation," 2021 International Conference on 3D Vision (3DV), London, United Kingdom, 2021, pp. 331-341, https://doi.org/10.1109/3DV53792.2021.00043. (**ORAL**).

[P5] F. Tosi*, F. Aleotti*, **P. Zama Ramirez***, M. Poggi, S. Salti, L. Di Stefano, S. Mattoccia, *"Distilled Semantics for Comprehensive Scene Understanding from Videos"*, 2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020, pp. 4653-4664, https://doi.org/10.1109/CVPR42600.2020.00471.

[P4] **P. Zama Ramirez**, C. Paternesi, L. D. Luigi, L. Lella, D. D. Gregorio and L. D. Stefano, "Shooting Labels: 3D Semantic Labeling by Virtual Reality," 2020 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR), Utrecht, Netherlands, 2020, pp. 99-106, https://doi.org/10.1109/AIVR50618.2020.00027 (**ORAL**) (**Best Paper Finalist**)

[P3] **P. Zama Ramirez**, A. Tonioni, S. Salti and L. D. Stefano, "Learning Across Tasks and Domains," 2019 IEEE/CVF International Conference on Computer Vision (**ICCV**), Seoul, Korea (South), 2019, pp. 8109-8118, https://doi.org/10.1109/ICCV.2019.00820

[P2] **P. Zama Ramirez**, M. Poggi, F. Tosi, S. Mattoccia, L. Di Stefano. "Geometry meets semantics for semi-supervised monocular depth estimation". In Computer Vision–ACCV 2018: 14th Asian Conference on Computer Vision, Perth, Australia, December 2–6, 2018, Revised Selected Papers, Part III 14 (pp. 298-313). Springer International Publishing. https://doi.org/10.1007/978-3-030-20893-6_19

[P1] **P. Zama Ramirez**, A. Tonioni and L. Di Stefano, "Exploiting semantics in adversarial training for image-level domain adaptation," 2018 IEEE International Conference on Image Processing, Applications and Systems (IPAS), Sophia Antipolis, France, 2018, pp. 49-54, https://doi.org/10.1109/IPAS.2018.8708884 (**ORAL**)

Under Review

[U5] A. Cardace, A. Conti, **P. Zama Ramirez**, S. Salti and L. Di Stefano, *"Boosting Multi-Modal Unsupervised Domain Adaptation for LiDAR Semantic Segmentation by Self-Supervised Depth Completion"*

[U4] A. Costanzino, **P. Zama Ramirez**, F. Tosi, M. Poggi, S. Mattoccia and L. Di Stefano, *"Learning Depth Estimation for Transparent and Mirror Surfaces"*

[U3] F. Tosi, F. Aleotti, **P. Zama Ramirez**, M. Poggi, S. Salti, S. Mattoccia and L. Di Stefano, *"Combining the Old with the New through Neural Disparity Refinement"*

[U2] **P. Zama Ramirez**, A. Costanzino, F. Tosi, M. Poggi, S. Salti, S. Mattoccia and L. Di Stefano, *"Booster: a Benchmark for Depth from Images of Specular and Transparent Surfaces"*

[U1] **P. Zama Ramirez**, A. Tonioni, F. Tombari *"Unsupervised Novel View Synthesis from a Single Image"*

Released Datasets and Code

Scientific Datasets

Booster Dataset — Dataset related to [P11], https://amsacta.unibo.it/6876/ Project Page: https://cvlab-unibo.github.io/booster-web/

Booster Dataset - Monocular Split — Dataset related to [U2], https://amsacta.unibo.it/7161/ Project Page: https://cvlab-unibo.github.io/booster-web/

RGB-MS Dataset — Dataset related to [P10], Dataset: http://amsacta.unibo.it/6877/, Project Page: https://cvlab-unibo.github.io/rgb-ms-web/

X-NeRF dataset — Dataset related to [P12], Dataset: https://amsacta.unibo.it/7142/, Project Page: https://cvlab-unibo.github.io/xnerf-web/

Codes

inr2vec — Code related to [P14], https://cvlab-unibo.github.io/inr2vec/

FeatureDistillation — Code related to [P13], https://cvlab-unibo.github.io/FeatureDistillation/

D4 — Code related to [P9], https://github.com/CVLAB-Unibo/d4-dbst

NDR — Code related to [P7], https://cvlab-unibo.github.io/neural-disparity-refinement-web/

RefRec — Code related to [P6], https://cvlab-unibo.github.io/shootinglabelsweb/

omeganet — Code relative to [P5], https://github.com/CVLAB-Unibo/omeganet.

ShootingLabels — Code related to [P4], https://cvlab-unibo.github.io/shootinglabelsweb/

ATDT — Code related to [P3], https://github.com/CVLAB-Unibo/ATDT

SemanticMonoDepth — Code related to [P2], https://github.com/CVLAB-Unibo/Semantic-Mono-Depth