

Ali Abdari

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🌐 Website

🐙 GitHub

in LinkedIn



Education

- 2023 – present **Ph.D. Student, University of Naples Federico II, University of Udine, Italy** Artificial Intelligence.
Area: *Complex 3D Scene and Metaverse Retrieval*
Supervisor: Prof. Giuseppe Serra
- 2016 – 2019 **M.Sc. Kharazmi University, Iran** Computer Science.
Thesis title: *Action Recognition in Compressed Video*.
Supervisor: Prof. Azadeh Mansouri
GPA: 18.34/20
- 2012 – 2016 **B.Sc. Kharazmi University, Iran** Computer Engineering.
Thesis title: *Reporting Financial affairs using Business Intelligence*.
Supervisor: Prof. Zahra Nilfroushan
GPA: 16.98/20

Main Publications ([Google Scholar](#))

Conference Proceedings

- 1 A. Abdari, A. Falcon, and G. Serra, “A language-based solution to enable metaverse retrieval,” in *International Conference on Multimedia Modeling*, Springer, 2024, pp. 477–488.
- 2 A. Abdari, A. Falcon, and G. Serra, “Adoctera: Adaptive optimization constraints for improved text-guided retrieval of apartments,” in *Proceedings of the 2024 International Conference on Multimedia Retrieval*, 2024, pp. 1043–1050.
- 3 A. Abdari, A. Falcon, and G. Serra, “Farmare: A furniture-aware multi-task methodology for recommending apartments based on the user interests,” in *Proceedings of the IEEE/CVF International Conference on Computer Vision*, 2023, pp. 4293–4303.
- 4 A. Abdari, A. Falcon, and G. Serra, “Metaverse retrieval: Finding the best metaverse environment via language,” in *Proceedings of the 1st International Workshop on Deep Multimodal Learning for Information Retrieval*, 2023, pp. 1–9.
- 5 A. Abdari, H. Mohammadzade, and S. A. Hashemian, “Trajectory clustering in surveillance videos using dynamic time warping,” in *2021 7th International Conference on Signal Processing and Intelligent Systems (ICSPIS)*, IEEE, 2021, pp. 1–5.
- 6 N. Honarjoo, A. Abdari, and A. Mansouri, “Violence detection using pre-trained models,” in *2021 5th International Conference on Pattern Recognition and Image Analysis (IPRIA)*, IEEE, 2021, pp. 1–4.
- 7 A. Abdari, P. Amirjan, and A. Mansouri, “Action recognition in compressed domain using residual information,” in *2019 4th International Conference on Pattern Recognition and Image Analysis (IPRIA)*, IEEE, 2019, pp. 130–134.

Journal Articles

- 1 N. Honarjoo, A. Abdari, and A. Mansouri, “Violence detection in compressed video,” *Multimedia Tools and Applications*, pp. 1–14, 2024. [🔗 URL: https://link.springer.com/article/10.1007/s11042-024-19478-0](https://link.springer.com/article/10.1007/s11042-024-19478-0).
- 2 A. Abdari, P. Amirjan, and A. Mansouri, “Speeding up action recognition using dynamic accumulation of residuals in compressed domain,” *arXiv preprint arXiv:2209.14757*, 2022.






Academic Activities and Achievements

- 2025  Selected as a Local Organizer Chair of the IRCDL 2025 conference
- 2024  Organizing CV4Metaverse Workshop at ECCV 2024, Milan, Italy
-  Organizing Metaverse Apartment Retrieval Challenge at CV4Metaverse Workshop at ECCV 2024, Milan, Italy
-  Participation in the Summer School on Computer Vision in the Age of Large Language Models, ICVSS, Sicily, Italy
- 2023  Participation in the Summer School on Large-Scale AI for Research and Industry, ELLIS, Modena, Italy
- 2022  Achieved Scholarship at the University of Naples Federico II
- 2016  Got selected among the first four talented students to start the Master's program without any entrance exam






Professional and Academic Experiences

- 2023 – 2024  **Teacher Assistant** of Deep Learning, University of Udine.
- 2021 – 2023  **Computer Vision and Machine Learning Researcher** Kharazmi University and Caica Company.
- 2019 – 2021  **Computer Vision Engineer** Iran's National Elites Foundation.
- 2017 – 2018  **Python Developer** Vestaak
- 2017 – 2019  **Teacher Assistant** of Digital Image Processing, Artificial Neural Network, Kharazmi University.
- 2013 – 2016  **Teacher Assistant** of Data structure, Automata theory, Design and Analysis of Algorithms, Introduction to Programming and Advanced Programming, Kharazmi University.

Skills

- Languages  English(Fluent, 7.5 IELTS band score), Italian (B2), Persian(Native).
- Coding  Python, C++, C, MATLAB, R, Java, PHP, C Sharp, SQL, \LaTeX , Julia
- Databases  MySQL, SQL Server, SQLite, MongoDB.
- Web Dev  HTML, CSS, JavaScript, Bootstrap.
- ML/DL Frameworks  PyTorch, Keras, HuggingFace, OpenCV, Dlib, MediaPipe, NumPy, Pandas, Matplotlib, and SciKit-Learn.

Projects

- Cross Modal Processing  3D scene Retrieval, Contrastive Learning
- Video Processing  Action Recognition in raw and compressed video, Primates Behaviour Analysis, Traffic Video Analysis, Video Synopsis, Multi-Object Tracking in surveillance videos, Fatigue Detection using eye features
- Natural Language Processing  Text Summarization and text Paraphrase using LLMs
- Image Processing  OCR, Water Marking, Segmentation, Classification
- Miscellaneous  EEG Signal Analysis, Risk assessment in autonomous vehicles, Vehicle position prediction using neural networks, Web Crawling to collect dataset

References

- **Prof. Giuseppe Serra**, Associate Professor at University of Udine, Udine, Italy, email: giuseppe.serra@uniud.it
- **Prof. Azadeh Mansouri**, Assistant Professor at the Department of Electrical and Computer Engineering at Kharazmi University, Tehran, Iran, email: a_mansouri@khu.ac.ir