Mahyar Gohari

Computer Vision Researcher

mahyargohari.com

Mahyar Gohari

m.goharimoghaddam@unibs.it

Mahyargm

(+39) 351 8468289

Brescia, Italy

Summary

Computer vision researcher at the University of Brescia, in the final year of PhD studies with a focus on multimedia forensics. Possessing 2 years of industry experience, adept at bridging academic expertise with practical applications.

Education

University of Brescia / Doctor of Philosophy (Ph.D.)

January 2022 - March 2025, Brescia, Italy

Ph.D. Candidate in Information Engineering.
My research focuses on multimedia forensics, particularly in the areas of image forgery detection and auto-tune detection using computer vision methods. I've had the opportunity to lead projects in these domains, contributing to advancements in multimedia forensics while deepening my understanding of the field.

Amirkabir University of Technology / Master of Science (M.S.)

September 2018 - April 2021, Tehran, Iran

Master of Science (M.S.) in Artificial Intelligence and Soft Computing. During my master's studies, I explored tomato detection and classification by their ripeness, employing object detection methods, in greenhouse settings. This research, alongside my coursework, broadened my expertise in computer vision and machine learning programming.

Amirkabir University of Technology / Bachelor of Science (B.S.)

September 2013 - November 2017, Tehran, Iran

Bachelor of Science (B.S.) in Computer Science.

Skills

Programming Languages: Python, C/C++, Bash Scripting, LATEX

Tools and Technologies: PyTorch, TensorFlow, OpenCV, Keras, Scikit-learn, Linux, Git, Docker, etc.

Languages: Persian (Native) - English (Advanced proficiency) - Italian (Intermediate)

Experience

Arsam Robotics / Computer Vision Engineer

May 2021 - December 2021, Tehran, Iran

- Responsible for developing a computer vision model using Python and Tensorflow for the ”Phygital” game for kids. In this game a mobile phone mounts on the board game, a digital game runs, and the kid interacts/plays with the game by putting the right physical toy on the board.
- Tested, validated, and reformulated models to deliver accurate prediction of outcomes of interest.
- Read scientific articles, conference papers, or other sources of research to identify emerging object detection trends and technologies.

Arka / Computer Vision Engineer

June 2020 - May 2021, Tehran, Iran

- Responsible for developing an object detection model for aerial images taken by drones.
- Delivered oral and written presentations of results of research to management and other end users.
- Read scientific articles, conference papers, or other sources of research to identify emerging object detection trends and technologies.

Amirkabir University of Technology / Teacher Assistant

September 2019 - July 2020, Tehran, Iran

- Teacher assistant in four different classes for the ”Computer Programming in C” course.
- Selected as the best teacher assistant of computer programming in C based on the students' survey.

Publications

- Zanardelli, M., Gohari, M., Benini, S., Adami, N. (2024). PINN-based Approach for Robust 3D Light Direction Estimation in Outdoor Images__Accepted.
- Gohari, M., Bestagini, P., Benini, S., Adami, N. (2024). Spectrogram-Based Detection of Auto-Tuned Vocals in Music Recordings__Under Review.
- Zanardelli, M., Gohari, M., Benini, S., Adami, N. (2023)SynthOutdoor: a synthetic dataset for 3D outdoor light estimation__Accepted.
- Gohari, M. (2021). Detection and Localization of Ripe Tomatoes Using Machine Vision. Turkish Journal of Computer and Mathematics Education (TURCOMAT), 12(13), 7584-7592.

References

- **References are available upon request.**