

Masoud Hadi

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EDUCATION

- Isfahan University of Technology** Isfahan, Iran
B.Sc. in Computer Engineering – Intelligent Systems 2019-2024
GPA: 17.96/20 (3.8/4.0), Last Two-Year GPA: 18.22/20 (3.92/4.0), Rank: 9th/80 students
Thesis: Community Detection with Graph Neural Networks; Grade: 20/20

PUBLICATIONS

GS-VTON: Controllable 3D Virtual Try-on with Gaussian Splatting Submitted to ICLR 2025
Masoud Hadi*, Yukang Cao*, Liang Pan, Ziwei Liu

RODEO: Robust Outlier Detection via Exposing Adaptive Out-of-Distribution Samples ICML 2024
Hossein Mirzaei, Mohammad Jafari, Hamid Reza Dehbashi, Ali Ansari, Sepehr Ghobadi, **Masoud Hadi**, Arshia Soltani Moakhar, Mohammad Azizmalayeri, Mahdieh Soleymani Baghshah, Mohammad Hossein Rohban

RESEARCH EXPERIENCES

- Nanyang Technological University** Remote
In collaboration with Prof. Ziwei Liu and Dr. Yukang Cao. Jan 2024 – Aug 2024
 - Researching interactions between 3D avatars and objects using Gaussian Splatting.
 - Exploring methods to ensure visual and spatial consistency
 - Developing the first virtual try-on approach using Gaussian Splatting, pioneering in achieving realistic and accurate virtual fittings.
- Isfahan University of Technology** Isfahan, Iran
Under the supervision of Prof. Abdolreza Mirzaei. Jan 2023 – Dec 2023
 - Developed a novel method for community detection by integrating Expectation Maximization (EM) into a Graph Neural Network training process.
 - Enhanced accuracy in identifying community structures by incorporating EM, leading to improved detection within graph-based models.
- Sharif University of Technology** Remote
Under the supervision of Prof. Mohammad Hossein Rohban and Prof. Mahdieh Soleymani. May 2022 – Jan 2024
 - Developed a data-centric approach to enhance the detection of out-of-distribution (OOD) input samples.
 - Focused on the targeted classification of adversarially perturbed in-distribution and out-of-distribution samples.
 - Conducted experiments exploring the use of generative models to improve OOD detection performance.

TEACHING EXPERIENCE

Discrete Mathematical Structures Fall 2022
Teaching Assistant under Prof. Mirzaei Isfahan University of Technology
Operating System Principles Spring 2023
Teaching Assistant under Prof. Zeynab Zali Isfahan University of Technology

HIGHLIGHT COURSES

- Selected IUT Courses:** Applied Linear Algebra (20/20), Elementary Differential Equations (20/20), Theory of Formal Languages (20/20), Discrete Mathematical Structures (19/20), Probability and Statistics (19/20), Game Theory (18/20), Basics of Machine Learning (18.2/20), Principles of Computational Intelligence (17.7/20), Artificial Intelligence (17.65/20), Data Structures (17.5/20)

WORK EXPERIENCES

- National Iranian Gas Company** Summer 2020
Software Engineer Intern
 - Worked as a software engineer to enhance the functionality of some inefficient programs

HONORS AND AWARDS

- Ranked among the top 0.7% in the national university entrance exam
- Awarded major change to Computer Engineering based on outstanding GPA
- Granted direct admission to Sharif University of Technology's master's program based on exceptional GPA

SKILLS

- Programming Languages:** Python, C, C++, C#, R, Matlab, PHP
- Deep Learning Frameworks:** PyTorch, TensorFlow, Keras
- Programming Libraries:** OpenCV, Numpy, Pandas, Scikit-Learn, Matplotlib, Selenium, Scrapy

LANGUAGES

- Languages: Persian (Native), English (Proficient) - TOEFL: 104 (L: 26, R: 28, S: 23, W: 27)