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 — Under review
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*
  Under the supervision of Prof. Ziwei Liu, in collaboration with Postdoc Dr. Yukang Cao. — *Jan 2023 – Dec 2023*
  - 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 Maximum Likelihood Estimation (MLE) into a Graph Neural Network training process.
  - Enhanced accuracy in identifying community structures by incorporating MLE, 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. — *Jun 2021 – 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 text-to-image 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**: Principles of Computational Intelligence (17.7/20), Artificial Intelligence (17.65/20), Data Structures (17.5/20), Applied Linear Algebra (20/20), Discrete Mathematical Structures (19/20), Probability and Statistics (19/20), Theory of Formal Languages (20/20), Game Theory (18/20)

Work Experiences

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

Skills

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

Languages

- Persian: Native, English: C1