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Javed Ahmad

Research Interests:
3D scene understanding | 3D objects localization | deep learning | multimodal learning

Education

11/2020 – present **Ph.D in Computational Vision, Automatic Recognition and Learning**
Doctoral researcher at Istituto Italiano di Tecnologia (iit), Italy
Research Theme: 3D scene understanding with deep learning and geometric reasoning
University Affiliation: Università degli Studi di Genova (UniGe), Italy

2017 – 2019 **Master of Science in Electrical Engineering**
Information Technology University, Pakistan
Majors: Adv. Mathematics | Machine Learning | Controls | Signal Processing

2013 – 2017 **Bachelor of Science in Electrical Engineering**
University of Central Punjab, Pakistan (CGPA - 3.50/4)
Majors: Electronics | Controls | Image Processing | Signal Processing

2008 – 2011 **Diploma of Associate Engineer in Electronics**
SUPARCO Institute of Technical Training, Pakistan (Score - 82.5%)

Work Experience

Research

11/2020 – present **Doctoral Researcher**
Istituto Italiano di Tecnologia, Italy
Research Focus: 3D object detection and localization from single and multi-modalities

07/2019 –10/2020 **Research Associate**
CACTUS Lab, Information Technology University, Pakistan

Teaching

2017-2019 **Teaching Assistant**
Machine Learning (graduate course)
Calculus & Analytical Geometry (undergrad course)
Power System Analysis (undergrad course)

Industry

2011 – 2017 **Associate Engineer**
SUPARCO (national space agency of Pakistan)
Worked on anomaly detection & control activities of Pakistan's first communication satellite (Paksat-1R)

Programming Skills

Python: Pytorch | Numpy | Pandas | OpenCV | Keras | TensorFlow
3D Libs. mmdetection3D | Open3D | pytorch3D
Others: C++ | MATLAB | Blender

Publications

2022 **Ahmad J.**, Taiana M., Toso M., James S., Del Bue A., 2022, May. Multi-view 3D objects localization from street-level scenes. In 21st International Conference on Image Analysis and Processing. Springer. [paper link] [code]

2022 Castro E., Rebelo A., Rio Torto I., Capozzi L., Ferreira MF, Goncalves T., **Ahmad J.**, Daoudi N., Beco S., Ferreira PM, Moreira G. Fill in the Blank for Fashion Complementary Outfit Product Retrieval: VISUM Summer School Competition. Journal on Machine Vision and Applications, Vol. 34, (no. 1), pp. 1-15 DOI 10.1007/s00138-022-01359-x

2020 **Ahmad J.**, Shamshad F., Maqbool J., Ahmed A, 2020. Deep unsupervised deblurring approach for improving crops disease classification. In CVPR Workshop on Agriculture-Vision. [workshop link] [slides] [code]

Summer Schools

Jul - 2021 **Vision Understanding and Machine Intelligence -** VISUM 2021
Program: lectures | coding sessions | project competition | panel discussions
Awarded: Best project team for achieving the highest prediction accuracy in competition titled 'to predict the complementary products in an outfit'. [presentation link]

Jul - 2020 **Easter European Machine Learning Summer School -** EEML 2020
Program: lectures | coding session | panel discussions | poster presentations | project discussions
Awarded: Best unconference research proposal for 3D historic landmark reconstruction. [presentation link]

Aug - 2020 **Oxford Machine Learning Summer School - OxML 2020**
Program: lectures | coding session | unconference sessions

Awards & Prizes

Ranked 1st in the competition by VISUM 2021 and EEML 2020

Fellowship granted by Information Technology University, Pakistan

Ranked 1st among all the faculties in BS final year project

Ranked 1st for designing soccer ball robot competition 'robo-sprint 2014' held at CASE University, Pakistan

2008 - 2011 **Scholarship** granted by SUPARCO (national space agency of Pakistan)

Community Service

I am sensitive to the themes regarding barriers to education and learning in a discriminated portion of society. I was a member of the Akhuwat Foundation, Pakistan, which is dedicated to charity fundraising ideas.