Fardad Dadboud
Graduate Research Assistant

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🎓 EDUCATION

Ph.D. of Electrical Engineering and Computer Science (EECS), *University of Ottawa* ↗ — Jan 2021 – present, Ottawa, Canada
Supervisor: Professor M. Bolic ↗ , Co-Supervisor: Dr. I. Mantegh ↗

M.Sc. of Biomedical Engineering-Bioelectric, *Sharif University of Technology* — Sep 2015 – Jan 2018, Tehran, Iran
Supervisor: Dr. M. Jahed

B.Sc. of Electrical Engineering, *Babol Noshirvani University of Technology* — Sep 2010 – Sep 2015, Babol, Iran

💼 PROFESSIONAL EXPERIENCE

Volunteer Visitor, *National Research Council (NRC)* ↗ — May 2021 – present, Ottawa, Canada
UAV **detection and tracking in videos** for both real and simulated scenarios

Graduate Research Assistant, *University of Ottawa* — Jan 2021 – present, Ottawa, Canada
Deep Learning and Computer Vision applications in Autonomous Vehicles

📖 PUBLICATIONS

Object Semantics Give Us the Depth We Need: Multi-task Approach to Aerial Depth Completion, — 2023
The 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023)
Hatami, Dadboud, Gupta, Bolic, Najjaran

Single-Stage UAV Detection and Classification with YOLOV5: Mosaic Data Augmentation and PANet, — 2021
17th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)
Dadboud, Patel, Mehta, Bolic, Mantegh

A machine learning model for predicting favorable outcome in severe traumatic brain injury patients after 6 months, *Acute and critical care* — 2021
Nourelahi, Dadboud, Khalili, Niakan, Parsaei

🎖 AWARDS

The second place of Drone-vs-Bird Detection Challenge, — 2021
4th WOSDETC of IEEE AVSS 2021

Research Scholarship, *University of Ottawa* — 2021

Ranked 44th in National Entrance Exam for Master of Science — 2015

🧠 SKILLS

Software
Pycharm, VSCode, VIM, Nano, Git, tmux

MLops
neptune.ai

OS
Windows, Linux-Based, macOS, Android, IOS

Programming
Python, MATLAB, C/C++, JAVA

Simulation
AirSim

Type Setting
LATEX, Microsoft Office

DL & CV Frameworks
Pytorch, TensorFlow, OpenCV, YOLOV5/V7, MMdetection, Detectron2, CVAT

Cluster Batch Systems
SLURM, Digital Research Alliance (ComputeCanada), CMC