

Fardad Dadboud

Graduate Research Assistant

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🎓 EDUCATION

Ph.D. of Electrical Engineering and Computer Science (EECS), Jan 2021 – present
University of Ottawa ✉
Supervisor: Professor M. Bolic ✉, Co-Supervisor: Dr. I. Mantegh ✉
M.Sc. of Biomedical Engineering-Bioelectric, Sharif University of Technology Sep 2015 – Jan 2018
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
UAV detection and tracking in videos for both real and simulated scenarios
Graduate Research Assistant, University of Ottawa Jan 2021 – present
Deep Learning and Computer Vision applications in Autonomous Vehicles

📄 PUBLICATIONS

Depth Completion and Object Detection: Exploring and Exploiting Complementarities (*Submitted), 2022
40th IEEE International Conference on Robotics and Automation (ICRA)
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, 2021
Acute and critical care
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