

Fardad Dadboud

Graduate Research Assistant

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🎓 EDUCATION

Ph.D. of Electrical Engineering and Computer Science (EECS), University of Ottawa ✉ Supervisor: Professor M. Bolic ✉ , Co-Supervisor: Dr. I. Mantegh ✉	Jan 2021 – present Ottawa, Canada
M.Sc. of Biomedical Engineering-Bioelectric, Sharif University of Technology Supervisor: Dr. M. Jahed	Sep 2015 – Jan 2018 Tehran, Iran
B.Sc. of Electrical Engineering, Babol Noshirvani University of Technology	Sep 2010 – Sep 2015 Babol, Iran

📁 PROFESSIONAL EXPERIENCE

Volunteer Visitor, National Research Council (NRC) ✉ UAV detection and tracking in videos for both real and simulated scenarios	May 2021 – present Ottawa, Canada
Graduate Research Assistant, University of Ottawa Deep Learning and Computer Vision applications in Autonomous Vehicles	Jan 2021 – present Ottawa, Canada

📖 PUBLICATIONS

DrIFT: Autonomous Drone Dataset with Integrated Real and Synthetic Data, Flexible Views, and Transformed Domains (*Under Review), <i>Conference on Computer Vision and Pattern Recognition (CVPR) 2024</i> Dadboud, Azad, Mehta, Bolic, Mantegh	2023
Object Semantics Give Us the Depth We Need: Multi-task Approach to Aerial Depth Completion, <i>The 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023)</i> Hatami, Dadboud, Bolic, Mantegh, Najjaran	2023
Single-Stage UAV Detection and Classification with YOLOV5: Mosaic Data Augmentation and PANet, <i>17th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)</i> Dadboud, Patel, Mehta, Bolic, Mantegh	2021
A machine learning model for predicting favorable outcome in severe traumatic brain injury patients after 6 months, Acute and critical care Nourelahi, Dadboud, Khalili, Niakan, Parsaei	2021

🏆 AWARDS

The second place of Drone-vs-Bird Detection Challenge, <i>4th WOSDETC of IEEE AVSS 2021</i>	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	Programming Python, MATLAB, C/C++, JAVA	DL & CV Frameworks Pytorch, TensorFlow, OpenCV, YOLOV5/V7, MMDetection, Detectron2, CVAT, SAM
MLops neptune, DVC, DagsHub, mlflow, wandb	Simulation AirSim, Gazebo, MATLAB	Cluster Batch Systems SLURM, Digital Research Alliance (ComputeCanada), CMC
OS Windows, Linux-Based, macOS, ROS	Type Setting LATEX, Microsoft Office	