

# AI4Logistics Winter Workshop

Location: Toronto Metropolitan University, Mechanical, Industrial, and Mechatronics Engineering

Conference Room: 3<sup>rd</sup> Floor, Eric Palin Hall 314, 87 Gerrard St. East, Toronto

Virtual link: [Link](#)

Date: February 9, 2024

Time: 9:00 am – 3:30 pm

- 9:00-9:30 Coffee and breakfast
- 9:30-13:30 Presentations
- 13:30-14:00 Working lunch
- 14:00-15:00 Lab Visits and Discussion
- 15:00:15:15 Closing remarks

	Presentation	Presenter	Time
1	Introduction about the project and milestones.	Dr. Iraj Mantegh	9:30 am
2	AI-enabled navigation system for beyond visual line of sight (BVLOS) logistics using unmanned aerial systems (UAS) in remote areas	Dr. Farrokh Sharifi	9:45 am
3	Aerial Photogrammetric Condition Assessment of Infra- and Super Structure Systems: An AI-assisted Approach	Dr. Homayoun Najjaran	10:00 am
4	UAV Detection and Classification	Dr. Miodrag Bolic	10:30 am
5	LTE connectivity risk-aware UAV flight path planning	Dr. Sina Sajjadi	11:00 am
6	Online local planning for UAVs in unknown environments	Dr. Houman Masnavi	11:30 am
7	Vision-based control of OpenMANIPULATOR-X using CNN	Niloufar Amiri	12:00 am
8	Localization of the aerial vehicles using ORB-SLAM3	Shayan Sepahvand	12:30 am
9	CNNs for 3D pose estimation with applications in aerial manipulation	Tom Croux	1:00
10	Working Lunch		1:30 pm
11	Discussion and Labs Visit- UAV Demo	Jeremy Bittick	2:00 pm
12	Closing remarks	Dr. Farrokh Sharifi	3:00 pm