i4Geo Geospatial Annual Symposium

AI & Machine Learning in Remote Sensing

November 12 | SA6008 | 8:00 AM – 5:00 PM

About the symposium

The i4Geo Geospatial Annual Symposium brings together professionals, researchers, students, and alumni working in remote sensing, GIS, and geospatial technologies. This year's theme, AI & Machine Learning in Remote Sensing, highlights emerging technologies, practical applications, and the evolving role of artificial intelligence in geospatial science.

Through invited presentations, a keynote address, discussions, and networking opportunities, the symposium aims to encourage knowledge exchange, strengthen connections between academia and industry, and explore new opportunities for collaboration.

Symposium Program

Time	Session
8:00 – 8:30	**Registration & Welcome Coffee**
8:30 – 9:00	**Opening Remarks & Symposium Overview** Craig Coburn, i4Geo Director
9:00 – 10:00	**KEYNOTE Address: New perspectives in artificial intelligence: Building interpretable neural networks** Roberto Budzinski Neto, University of Lethbridge
10:00 – 10:15	*Morning Break*
10:15 – 10:40	**Presentation #1: Digital Imaging Technology in High-Throughput Phenotyping and Precision Agriculture Using AI/ML Tools** Keshav D Singh, Agriculture and Agri-Food Canada
10:40 – 11:05	**Presentation #2: Small Municipalities, Big Data: Delivering Regional GIS at Scale in Southern Alberta** Jaime Thomas, Oldman River Regional Services Commission
11:05 – 11:50	**Interactive Hands-On Session: Landslide Mapping Using LiDAR**
11:50 – 12:15	**Presentation #3: Finding missing graves using RPAS thermal imaging.** Craig Coburn, i4Geo, University of Lethbridge
12:15 – 1:15	*Lunch*
1:15 – 2:00	**Interactive Networking & Collaboration**
2:00 – 2:25	**Presentation #4: From Delineation to Classification: Student-Led Geospatial Approaches to Natural Asset Inventorying**

2:25 – 2:50	Apryl Gattafoni, City of Lethbridge **Presentation #5: In the Context of Compounding Disturbances: Mountain Pine Beetle Impact and Fire-related Canopy Fuel Load Loss** Natalie Krizan, University of Lethbridge
2:50 – 3:05	*Afternoon Break*
3:05 – 3:50	**Panel Discussion: The Next 5 Years in Geospatial Science**
3:50 – 4:30	**Problem Bazaar: Geospatial Challenges & Collaboration Exchange**
4:30 – 5:00	**Closing Remarks, Future Opportunities & Group Photo**

Presenter & Participant Notes

Presenters: All invited speakers are kindly asked to prepare their presentation slides in advance. Each presentation is allocated 25 minutes, including time for questions and discussion.

Interactive Sessions: Participants are encouraged to take part in the hands-on activities, networking sessions, and group discussions. Those wishing to participate in the hands-on activities are encouraged to bring their own laptops.

Refreshments & Parking: Lunch and refreshments will be provided. Parking passes will also be available for attendees.

Program Updates: This is a preliminary program. Additional details about presentations and interactive activities will be shared closer to the event.

Questions or Further Information: Please contact Farnoosh Aslami at farnoosh.aslami@uleth.ca.