

IGTxImNO 2025 Symposium Program at a Glance

Wednesday, March 5, 2025	
Meeting Room 1	Meeting Room 2
08:00 - 09:00 Registration, Poster Setup, Breakfast	
09:00 - 09:15 Opening Remarks	
09:15 - 10:00 Keynote I Pediatric Imaging – What We Need (and Don't Need) AI for Brigit Ertl-Wagner, The Hospital for Sick Children	
10:00 - 10:15 Break	
10:15 - 11:15 Oral 1 Cancer 1	Oral 2 MRI & Neuroimaging
11:15 - 11:45 Pitch 1 Cancer	Pitch 2 MRI & Neuroimaging
11:45 - 12:45 Poster Viewing (Pitch Sessions 1 & 2 presenting)	
12:45 - 13:00 Lunch Pickup	
13:00 - 13:45 Panel Session Lessons Learned From First-Time Founders and Leaders	
13:45 - 14:00 Lunch Wrap-up	
14:00 - 15:00 Oral 3 Device, Systems, and Robotic Development	Oral 4 Deep Learning/Machine Learning Methodology 1
15:00 - 15:30 Pitch 3 Device, Systems, and Robotic Development	Pitch 4 Deep Learning/Machine Learning Methodology 1
15:30 - 16:30 Poster Viewing (Pitch Sessions 3 & 4 presenting)	
16:30 - 17:30 Oral 5 General 1	Oral 6 Image Guided Intervention and Surgery 1
17:30 - 18:15 Workshop	
18:15 - 19:30 Reception/Social Event	

Thursday, March 6, 2025	
Meeting Room 1	Meeting Room 2
08:00 - 09:00 Registration, Poster Setup, Breakfast	
09:00 - 10:00 Oral 7 Deep Learning/Machine Learning Methodology 2	Oral 8 Image Guided Intervention and Surgery 2
10:00 - 10:30 Pitch 5 Deep Learning/Machine Learning Methodology 2	Pitch 6 Image Guided Intervention and Surgery
10:30 - 11:30 Poster Viewing (Pitch Sessions 5 & 6 presenting)	
11:30 - 12:30 Oral 9 Cancer 2	Oral 10 Cardiac, Lung, and Musculoskeletal Imaging
12:30 - 12:45 Lunch Pickup	
12:45 - 13:30 Panel Session Career Pathways for Graduates: Academic and Industry Advice on Talent Development	
13:30 - 13:45 Lunch Wrap-up	
13:45 - 14:45 Oral 11 Optical Imaging & Ultrasound Imaging	Oral 12 General 2
14:45 - 15:15 Pitch 7 Optical Imaging & Ultrasound Imaging	Pitch 8 General
15:15 - 16:15 Poster Viewing (Pitch Sessions 7 & 8 presenting)	
16:15 - 17:00 Keynote II The Abundant Promise of Ultrasound in Neurosurgery Amir Manbachi, Johns Hopkins University	
17:00 - 17:30 Closing and Awards	

IGTxImNO Joint Symposium 2025

Tentative Program - updated Feb 5, 2025

Wednesday, March 5, 2025

08:00 - 09:00	Registration, Poster Setup	
09:00 - 09:15	Opening Remarks	Meeting Rooms 1&2
	Dafna Sussman and Ali Tavallaei, Toronto Metropolitan University	
09:15 - 10:00	Keynote Session I	Meeting Rooms 1&2
	Pediatric Imaging – What We Need (and Don't Need) AI for	
	Brigit Ertl-Wagner, The Hospital for Sick Children	
10:00 - 10:15	Break	
10:15 - 11:15	Oral 1 Cancer 1 Meeting Room 1	Oral 2 MRI & Neuroimaging Meeting Room 2
	O1-1: The Role of Flow and Microbubble-Induced Shear Stress in Endothelial Cell Immunobiology Elahe Memari, Concordia University	O2-1: Fetoplacental Blood-Mimicking Phantoms for Optimizing Susceptibility Weighted Imaging Dylan Young, Toronto Metropolitan University
	O1-2: Using Computed Tomography perfusion (CTP) to Assess Changes in the Contrast Distribution Volume in Pancreatic Cancer Patients: a Potential Biomarker for Patient Response to Standard-of-care Therapy Jin-Young Bang, Western University	O2-2: A Pulse Sequence for Single Breath Hold Saturation Transfer Imaging of the Entire Gravid Abdomen Siddharth Sadanand, Toronto Metropolitan University
	O1-3: Advancing Treatment of Skeletal Metastases: Radiation-Induced Photodynamic Therapy (RadioPDT) with Novel Nanoparticles Azin Mirzajavadkhan, University of Toronto	O2-3: Laterally Oscillating Trajectory for Undersampling Slices (LOTUS) Mayuri Sothynathan, Western University
	O1-4: Differences in Radiologist Search Patterns when Assessing mpMRI for Prostate Cancer Ryan Au, Western University	O2-4: The Effect of MRI RF Coil Selection on Spatial Trends in T1 Relaxation Sandra Alexander, Toronto Metropolitan University
11:15 - 11:45	Pitch 1 Cancer Meeting Room 1	Pitch 2 MRI & Neuroimaging Meeting Room 2
	P1-1: Automatic Gleason Grading for Better Prognosis Prediction Matthew McNeil, University of Toronto	P2-1: Suppression of Lipid Contamination in Whole Brain Slice Magnetic Resonance Spectroscopic Imaging using Two-Dimensional Selective Excitation Jason Rock, Sunnybrook Research Institute
	P1-2: LLM-Based Prostate Cancer Grading Through Reasoning Segmentation Emma Willis, Queen's University	P2-2: Deep-Learning Based Detection of Placenta Previa from Fetal MRI: A Cascaded CNN Approach Nika Momeni, Toronto Metropolitan University
	P1-3: Evaluating the Synergistic Effects of Antiangiogenic Therapy and Stereotactic Body Radiation Therapy in Pancreatic Cancer using Multi-Modal Optical Coherence Tomography Hector Alejandro Contreras-Sanchez, University of Toronto	P2-3: Accounting for Fat Contamination in Amine/Amide Concentration Independent Detection (AACID) CEST MRI of the Human Spinal Cord Victoria Little, Western University
	P1-4: Characterization of Osteosarcopenia Quantified With AI-Enabled Musculoskeletal Imaging Biomarkers in Patients Undergoing Spine SBRT Yessica Castano Sainz, Sunnybrook Research Institute	P2-4: Modelling 13C-Bicarbonate Signal Changes Due to Lactate Oxidation Pathways in Hyperpolarized MRI Dylan Dingwell, University of Toronto
	P1-5: Assessing Diffuse Optical Spectroscopy and Magnetic Resonance Imaging for Quantification of Multimodal Gadolinium-Incorporated Porphyrins for Theranostic Guidance of Oral Cancer in Mice Theodore Husby, University of Toronto	P2-5: Comparison of Lipid Suppression Techniques for in vivo Whole Brain MR Spectroscopic Imaging Kaito Hara-Lee, Queen's University
	P1-6: Designing an Endometrial Pathology Slide Classification User Interface for Efficient Diagnostics Matthew Lam, Toronto Metropolitan University	P2-6: Microscopic Fractional Anisotropy of the Hippocampus in Dementia Patients Ricardo Rios-Carrillo, Western University
	P1-7: Evaluating Osteosarcopenia Progression in a Preclinical Model of Prostate Cancer Bone Metastases with Imaging Biomarkers Leanna Abraham, University of Toronto	
	P1-8: Leveraging Transformers to Improve Dose Prediction in Complex Multi-lesion Lung SABR Plans Edward Wang, Western University	
	P1-9: Precursor Droplet Extrusion for the Production of Size-Controlled Lipid-Stabilized Drug-Loaded Nanobubbles Patrick Dong Min Chang, University of Toronto	
	P1-10: Photodynamic Therapy-Based Photochemical Immune Stimulation for the Treatment of Ovarian Cancer in a Xenograft Mouse Model Breana Shehetila, University of Toronto	
11:45 - 12:45	Poster Viewing – Pitch Sessions 1 & 2 above plus posters below presenting	
	Poster Room	
	P1-11: Automated Detection of Lymph Node Metastasis in Prostate Cancer Using Whole Slide Images Kangdi Shi, University Health Network	
	P1-12: CollinsOral Epithelial Cell Quantification for Dysplasia Grading Using Histopathology Images Kangdi Shi, Mount Sinai Hospital	
12:45 - 13:00	Lunch Pickup	
13:00 - 13:45	Panel Session	Meeting Rooms 1&2
	Lessons Learned from First-Time Founders and Leaders	

13:45 - 14:00	Lunch Wrap-up	
14:00 - 15:00	<p style="text-align: center;">Oral 3</p> <p style="text-align: center;">Device, Systems, and Robotic Development</p> <p style="text-align: center;">Meeting Room 1</p> <p>O3-1: Generating and Measuring Flow for Hemodynamic Simulations of Interventional Vascular Procedures David Ng, Robarts Research Institute</p> <hr/> <p>O3-2: Design and Testing of an MRI Phantom Faraday Cage using Rapid Prototyping Techniques Alexander Dunn, Toronto Metropolitan University</p> <hr/> <p>O3-3: Resection Cavity Tracking Using a Bench-Top Robot and Electromagnetic Tracking Kian Hashtrudi-Zaad, University of Toronto</p> <hr/> <p>O3-4: Accurate Catheter Tracking for Image-Guided Therapy Applications using Fiber-Bragg Grating Mahdi Tahmasebi, Toronto Metropolitan University</p>	<p style="text-align: center;">Oral 4</p> <p style="text-align: center;">Deep Learning/Machine Learning Methodology 1</p> <p style="text-align: center;">Meeting Room 2</p> <p>O4-1: Foundation Models for Cancer Tissue Margin Assessment with Mass Spectrometry Mohammad Farahmand, Queen's University</p> <hr/> <p>O4-2: From Text to Insight: Classifying Microcalcifications in Radiology Reports with AI Zardar Khan, Sunnybrook Research Institute</p> <hr/> <p>O4-3: Automatically Segmenting Curved Catheters in Prostate Brachytherapy Ultrasound Images with a Deep Learning and Feature Extraction Pipeline Jessica de Kort, The University of Winnipeg & University of Manitoba</p> <hr/> <p>O4-4: Evaluating the Use of Automatic Workflow Recognition for Central Venous Catheterization Training Catherine Austin, Queen's University</p>
15:00 - 15:30	<p style="text-align: center;">Pitch 3</p> <p style="text-align: center;">Device, Systems, and Robotic Development</p> <p style="text-align: center;">Meeting Room 1</p> <p>P3-1: Design and Ergonomic Assessment of Steerable Catheter Handles for the CathPilot System Sina Keshavarz, Toronto Metropolitan University</p> <hr/> <p>P3-2: Validation of 3D Ultrasound Musculoskeletal System Clara Duquette Evans, Western University</p> <hr/> <p>P3-3: Multi-Material Hand Fracture Model for Spatial Learning Trinette Wright, Techna & University Health Network</p> <p>P3-4: A Preclinical SPECT System Using Ultrahigh Energy Resolution CZT Detectors for Alpha and Beta Emitter Radiopharmaceutical Therapy Imaging Aileen Ouyang, MH3D Inc.</p> <hr/> <p>P3-5: Design Optimizations of an Expandable Cable-Driven Parallel Mechanism for Minimally Invasive Cardiovascular Interventions (CathPilot) Sina Keshavarz, Toronto Metropolitan University</p> <hr/> <p>P3-6: Developing Low-Cost 3D-Printed Prosthetics with a Functional Wrist for Patients Along the Thai-Myanmar Border Emese Elkind, Queen's University</p> <hr/> <p>P3-7: Validating and Iterating the TRU-VU Wrist Positioning Aid and Educational Training to Improve the Standardization of Wrist Radiography Laura Vancer, Western University</p>	<p style="text-align: center;">Pitch 4</p> <p style="text-align: center;">Deep Learning/Machine Learning Methodology 1</p> <p style="text-align: center;">Meeting Room 2</p> <p>P4-1: Comparative Analysis of Deep Learning Approaches for Urethral Segmentation in High-Dose-Rate Prostate Brachytherapy Using Transrectal Ultrasound Images Nicole Valencia, The University of Winnipeg</p> <hr/> <p>P4-2: Predicting Inspiratory Chest CT Image Viability using Deep Learning Sara Rezanjou, Toronto Metropolitan University</p> <hr/> <p>P4-3: Involvement-Aware Foundation Models for Prostate Cancer Detection in Ultrasound Mohamed Harmanani, Queen's University</p> <hr/> <p>P4-4: Automated CNN-based Segmentation of Carotid Atherosclerotic Plaque and Morphological Characterization of Carotid B-mode Ultrasound Images Nahid Babazadeh Khameneh, McGill University & Research Institute of McGill University Health Centre</p> <hr/> <p>P4-5: Automatic Prostate Segmentation in Micro-Ultrasound Imaging using the Segment Anything Model Olivia Radcliffe, Queen's University</p> <hr/> <p>P4-6: Advancing Kidney Ablation Analysis in 3D CT Images: A Deep Learning Segmentation Framework Maryam Rastegarpoor, Western University</p> <hr/> <p>P4-7: Performing Prostate Segmentation Using SAM-Med2D Across Multiple Ultrasound Modalities Vivian Nguyen, Queen's University</p> <hr/> <p>P4-8: Evaluating the Use Cases of 3D and 2D Segmentation in Fetal MRIs Alejo Costanzo, Toronto Metropolitan University</p>
15:30 - 16:30	<p>Poster Viewing – Pitch Sessions 3 & 4 above plus posters below presenting</p>	
	<p>P3-8: Bridging the Gap with Customizable Above-Elbow Prosthetic Designs to Balance Open-Source Models and Patient-Specific Needs Emese Elkind, Queen's University</p> <hr/> <p>P3-9: Miniaturized Gamma-Imaging Probe for Lung Cancer Detection Alysha Prem, Toronto Metropolitan University</p>	<p>P4-9: Risk Stratification of Early-stage Non-small Cell Lung Cancer using PET-based Radiomics Christine Santiago, Western University</p> <hr/> <p>P4-10: Automatic Classification of Levator Ani Muscle Avulsion in 3D Transperineal Ultrasound Images Mihir Gokal, Western University</p>
16:30 - 17:30	<p style="text-align: center;">Oral 5</p> <p style="text-align: center;">General 1</p> <p style="text-align: center;">Meeting Room 1</p> <p>O5-1: A Sensorless Freehand 3D Ultrasound Solution with a Novel Coupling Pad Libin Liang, Robarts Research Institute & Western University</p> <hr/> <p>O5-2: A Motion Assessment and Image Quality Enhancement Technique using Retrospective Frame Averaging with Low-dose Volumetric 4D-CT for Radiation Therapy Simulation Timothy Yau, Western University</p> <hr/> <p>O5-3: A Dual-Camera Simulation of Markerless, Optical Head Pose Tracking Using Deep Learning for Motion Correction in Magnetic Resonance Imaging Marina Silic, University of Toronto</p> <hr/> <p>O5-4: Image Database Creation for Improved Imaging of Mitral Valve Surgery Training Phantoms Emma Zhang, Western University</p>	<p style="text-align: center;">Oral 6</p> <p style="text-align: center;">Image Guided Intervention and Surgery 1</p> <p style="text-align: center;">Meeting Room 2</p> <p>O6-1: A Feasibility Study on Enhanced Navigation in Breast-Conserving Surgery through Haptic Feedback Laura Connolly, Queen's University</p> <hr/> <p>O6-2: Physical Replication and Validation of Mathematical Mitral Valve Models Patrick Carnahan, Robarts Research Institute</p> <hr/> <p>O6-3: Non-invasive Ablation of Intra-abdominal Fetal Rabbit Umbilicus using Magnetic Resonance Guided High Intensity Focused Ultrasound Therapy Ava Danyaly, University of Toronto</p> <hr/> <p>O6-4: Radio-Ultrasound-Guided System for Real-Time Intraoperative Localization: A Phantom Study Sydney Wilson, Western University</p>
17:30 - 18:15	Workshop	Meeting Rooms 1&2
18:15 - 19:30	Reception/Social Event	Meeting Rooms 1&2

09:00 - 10:00	<p style="text-align: center;">Oral 7 Deep Learning/Machine Learning Methodology 2 Meeting Room 1</p> <p>O7-1: Micro-CT Anatomical Measurement of the Human Cadaveric Subaxial Cervical Vertebrae: Machine Learning Prediction of the Lamina Length Joseph Umoh, Western University</p> <hr/> <p>O7-2: Automated Diaphragm Segmentation using Deep Learning from Chest CT Images Mustansir Verdawala, Toronto Metropolitan University</p> <hr/> <p>O7-3: A Deep Learning Pipeline for 3D Brain-Wide Mapping of Local Neuronal Ensembles in Tera-Voxel Light Sheet Microscopy Ahmadreza Attarpour, University of Toronto</p> <hr/> <p>O7-4: Evaluating Deep Learning Models to Classify Early-Stage Esophageal Cancer: A Preliminary Study Marcus Milantoni, Western University</p>	<p style="text-align: center;">Oral 8 Image Guided Intervention and Surgery 2 Meeting Room 2</p> <p>O8-1: Feasibility of Three-dimensional Ultrasound for Cervical Cancer Treatment Planning Tiana Trumpour, Western University</p> <hr/> <p>O8-2: First Demonstration of Functional Connectivity Mapping using a 1.5T MR-Linac in Glioblastoma Eaman Almasri, University of Toronto & Sunnybrook Research Institute</p> <hr/> <p>O8-3: Improving Success Rate of Navigated Breast-Conserving Surgery By Needle Stabilization Chris Yeung, Queen's University</p> <hr/> <p>O8-4: Assessment of a Mini Stereotactic Guidance System for Percutaneous Focal Liver Tumour Ablation Joeana Cambranis-Romero, Western University</p>
10:00 - 10:30	<p style="text-align: center;">Pitch 5 Deep Learning/Machine Learning Methodology 2 Meeting Room 1</p> <p>P5-1: Evaluating and Comparing the Surgical Tool Detection Performance of YOLO Object Detection Models in Simulated Central Venous Catheterization Aden Wong, Queen's University</p> <hr/> <p>P5-2: Machine Learning-Based Prediction of Vertebral Fracture Risk in SBRT Patients using Quantitative Imaging Data Dawit Gulta, Sunnybrook Research Institute</p> <hr/> <p>P5-3: Predicting the Phase of Cataract Surgery with Deep Learning Joshua Bierbrier, Queen's University</p> <hr/> <p>P5-4: Automated MRI-Based Segmentation of Multiple Fetal Brain Structures Yasmin Modarai, Toronto Metropolitan University</p> <hr/> <p>P5-5: Leveraging Surgical Workflow Recognition for Skill Assessment in Simulated Cataract Surgery Bining Long, Queen's University</p> <hr/> <p>P5-6: Leveraging Convolutional Embeddings for AFib Detection in the Intensive Care Unit Setting Nooshin Maghsoodi, Queen's University</p> <hr/> <p>P5-7: Self-Supervised Parallel Transmit RF Pulse Design for 2D Spatially Selective Excitation Yuliang Xiao, University of Toronto & Sunnybrook Research Institute</p> <hr/> <p>P5-8: Ultrasound Probe Segmentation for RGB-D Object Tracking in Central Line Insertion Réna Hajjar, Queen's University</p>	<p style="text-align: center;">Pitch 6 Image Guided Intervention and Surgery Meeting Room 2</p> <p>P6-1: Validation of an Electroanatomic Map Conversion Tool for Registration to Radiation Treatment Planning Images Sarah Konermann, McGill University</p> <hr/> <p>P6-2: Thrombectomy Assist: Live Thrombus Detection Lola Assad, Queen's University</p> <hr/> <p>P6-3: Development of A Novel System For Micro-Ultrasound-Guided Focal Low-Dose-Rate Prostate Brachytherapy David Contella, Western University</p> <hr/> <p>P6-4: 3D Calyx Segmentation for the Volumetric Detection of Hydronephrosis Marina Music, Queen's University</p> <hr/> <p>P6-5: Predicting Patient-Specific Instantaneous Spatial Temperature Maps for MR-Guided Laser Interstitial Thermal Therapy for Epilepsy using a Physics-Informed Neural Network Saba Sadatamin, University of Toronto</p> <hr/> <p>P6-6: Assessing the Impact of a Magnetic Field Generator on Fluoroscopic Image Quality Mateen Mirzaei, Western University</p> <hr/> <p>P6-7: Designing a 6-Axis Testbed for Accessible Image-Guided Robotics Research Coleman Farvolden, Queen's University</p>
10:30 - 11:30	<p>Poster Viewing – Pitch Sessions 5 & 6 above plus poster below presenting Poster Room</p> <hr/> <p>P6-8: Evaluating Sensitivity Differences of Healthy Spinal Cord and Intramedullary Spinal Cord F98 Glioma in Response to Focused Ultrasound and Microbubbles Mahsa Mokhlesabadi, Sunnybrook Research Institute</p>	
11:30 - 12:30	<p style="text-align: center;">Oral 9 Cancer 2 Meeting Room 1</p> <p>O9-1: Regional Predictors of Progression after Stereotactic Radiosurgery for Brain Metastases Robert Policelli, Western University</p> <hr/> <p>O9-2: Development of Cisplatin Prodrug-Loaded Microbubbles for Ultrasound-Aided Targeted Cancer Therapy Sean McGrath, University of Toronto</p> <hr/> <p>O9-3: Adaptive Resource-Efficient Federated Learning for Prostate MRI using PCA and Early Stopping Negin Piran Nanekaran, University of Guelph</p> <hr/> <p>O9-4: A Mechatronic Needle Guidance System for Prostate-Specific Positron Emission Tomography and 3D Transrectal Ultrasound-Guided Trans-perineal Prostate Biopsy Sule Karagulleoglu Kunduraci, Western University</p>	<p style="text-align: center;">Oral 10 Cardiac, Lung, and Musculoskeletal Imaging Meeting Room 2</p> <p>O10-1: Ultrasound 3D Reconstruction of the Lower Spine for Facet Joint Injection Gaurav Ranjit, Queen's University</p> <hr/> <p>O10-2: Enhanced Cardiac Imaging using Fixed-Filter Spectral Imaging with Anti-Correlated Noise Correction Lisa Garland, Robarts Research Institute</p> <hr/> <p>O10-3: Development of a Tissue-Equivalent Lung Phantom Compatible for Proton Magnetic Resonance Imaging (MRI) for Evaluation of Airway Size Razieh Enjilela, Toronto Metropolitan University</p> <hr/> <p>O10-4: Examining the Bilateral Loading Relationship in Thumb Osteoarthritis Jennifer Villeneuve, Western University</p>
12:30 - 12:45	<p>Lunch Pickup</p>	
12:45 - 13:30	<p>Panel Session Meeting Rooms 1&2 Career Pathways for Graduates: Academic and Industry Advice on Talent Development</p>	
13:30 - 13:45	<p>Lunch Wrap-up</p>	

13:45 - 14:45

Oral 11
Optical Imaging & Ultrasound Imaging
Meeting Room 1

O11-1: Deep Learning-Enabled 3D Fluorescence Imaging for Surgical Guidance: Assessing Surgical Margins

Hikaru Kurosawa, Princess Margaret Cancer Centre

O11-2: Three-Dimensional Ultrasound Synovial Blood Flow Volume Assessment in Thumb Osteoarthritis Patients
Megan Hutter, Western University

O11-3: In Vivo Hyperspectral Ultra-Broadband Sub-MHz Photoacoustic Imaging: Volumetric Optical Contrast to 4 cm Deep and Beyond

Ivan Kosik, Princess Margaret Cancer Centre

O11-4: Deep Learning Architecture Optimization for 3D Optical Imaging in Early-Stage Oral Cancer Models

Rooaa Shanshal, Princess Margaret Cancer Centre & University Health Network

Oral 12
General 2

Meeting Room 2

O12-1: Evaluating the Association Between Primary Motor Cortex Metabolite Levels and Dexterity Following Spinal Surgery for Degenerative Cervical Myelopathy

Scott Wilson, Robarts Research Institute

O12-2: Accelerating Monte Carlo Light Propagation Models for Deep Learning-Enabled Fluorescence-Guided Surgery

Matthew Siracusa, Princess Margaret Cancer Centre

O12-3: Role of Imaging Contrasts in the Volumetric Prediction of MT-NOE Attenuated Tumour Sub-Region

Céline Dubroy-McArdle, Toronto Metropolitan University

O12-4: Light-Based Pressure Monitoring Guidance in Neurosurgery Retraction: Development and Validation of an Optical Sensing Algorithm

Lee Sikstrom, Robarts Research Institute & Western University

14:45 - 15:15

Pitch 7
Optical Imaging & Ultrasound Imaging
Meeting Room 1

P7-1: Standardizing B-Line Annotation for Reproducible Lung Ultrasound Metrics

Maha Kesibi, Queen's University

P7-2: Automated Liver Segmentation using Attention Models in Point-of-Care Ultrasound Images

Zachary Szentimrey, University of Guelph

P7-3: Influence of Laser Coherence Length in Polarization Speckle-Based Tumour Detection

Daniel Louie, University Health Network

P7-4: Quantifying Tendon Excursion in the Shoulder using a 3D-Ultrasound Musculoskeletal System

Marie Le, Western University

P7-5: Self-Supervised Learning for Retinal Disease Classification: Reducing Annotation Dependency with Transformation-Based Pretext Learning with Limited Labels

Pramit Dutta, University of Guelph

P7-6: Polyvinyl Alcohol Cryogels (PVA-C): Fabrication Method for Homogeneous Multimodal Phantoms

Olivia Qi, Western University

P7-7: Spine Ultrasound Segmentation Trained on Registered CT As Ground Truth

Junhui Zong, Queen's University

P7-8: Ultrasound Based Evaluation of Stress Urinary Incontinence Pessaries on Bladder Neck, Bladder Descent, and Retrovesical Angle

Helena Kunic, University of Guelph

P7-9: Polarization Speckle Analysis of Volumetric Scattering from Controlled Turbid Phantoms and Mouse Skin Tissues

Carla Kulcsar, University of Toronto

Pitch 8
General

Meeting Room 2

P8-1: A Language-Audio Foundation Model for Characterization of Cancerous Tissue in Mass Spectrometry Images

Alon Gabriel, Queen's University

P8-2: Histology Hide-and-Seek: Visually Navigating Latent Space Clustering for Pathology Exploration

Phoenix Wilkie, University of Toronto

P8-3: A Comparison of Uncertainty Techniques on Basal Cell Carcinoma Mass Spectrometry Data

Tyler Elliott, Queen's University

P8-4: 3D ABUS System with Breast Needle Biopsy Capability and Integrated MRI-guidance Lesion Localization

Amal Aziz, Western University

P8-5: Large Language Models are One-Shot Radiology Report Summarizers

Mahmoud Idlbi, Queen's University

P8-6: Accelerated 4D Flow with Respiratory Compensation and Cardiac View Sharing in Pediatric Congenital Heart Disease

Fatemeh Rastegar Jooybari, University of Toronto

P8-7: Forecasting Movement Patterns in Stroke Patients Utilizing Time Series Foundation Models

Dharsan Ravindran, Queen's University

15:15 - 16:15

Poster Viewing – Pitch Sessions 7 & 8 above plus posters below presenting

Poster Room

P7-10: Impact of Ambient Light on Spatial Frequency Domain Imaging for Surgical Guidance

Jack Wunder, Princess Margaret Cancer Centre

P7-11: The impact of propagation pathways on targeting accuracy in transspinal ultrasound focusing

David Martin, Sunnybrook Research Institute

P8-8: Preliminary PET Imaging Reveals Reduced Synaptic Density in Autistic vs Non-Autistic Youth

Christin Schifani, Centre for Addiction and Mental Health

16:15 - 17:00

Keynote Session II
The Abundant Promise of Ultrasound in Neurosurgery

Amir Manbachi, Johns Hopkins University

Meeting Rooms 1&2

17:00 - 17:30

Closing and Awards

Dafna Sussman and Ali Tavallaei, Toronto Metropolitan University

Meeting Rooms 1&2