ELAMI: Emerging LLM/LMM Applications in Medical Imaging (ELAMI)

Held in conjunction with the MICCAI 2025 Conference

September 27, 2025

8:00 AM – 12:30 PM SGT

Room: TBA

Time (SGT)	Session / Topic
8:00 – 8:05	Welcome and Introduction
8:05 – 8:45	**Paper Session I (8 min each)**
8:05 – 8:13	GMAT: Grounded Multi-Agent Clinical Description Generation for Text Encoder in Vision-Language MIL for Whole Slide Image Classification
8:13 – 8:21	SCOPE: Label Extraction of Stroke Diagnosis from Unstructured Medical Reports Using Retrieval-Augmented Generation
8:21 – 8:29	Mind the Evaluation Gap: Large Language Models for Structured Data Extraction from Radiology Reports
8:29 – 8:37	NeuroReport-MS: Multi-Scale Agentic AI for Automated Clinical Report Generation in Multiple Sclerosis
8:37 – 8:45	REMix: Refinement-Enhanced Visual-Textual Mixing for Lesion Segmentation
8:45 – 9:20	**Keynote I – Dr. Daniel Rückert**
9:20 – 9:52	**Paper Session II (8 min each)**
9:20 – 9:28	An LLM-based Active Assistant and Smart Manual for CT Imaging Workflows
9:28 – 9:36	SIGMA: Auto-regressive VLM for Automated Radiology Report Generation from Longitudinal 3D CT Volumes

9:36 – 9:44	Specialised or Generic? Tokenization Choices for Radiology Language Models
9:44 – 9:52	SCOPE: Speech-guided COllaborative PErception Framework for Surgical Scene Segmentation
10:00 – 10:10	Coffee Break
10:10 – 10:45	**Keynote II – Dr. Xiaoxiao Li**
10:45 – 11:13	**Paper Session III (8 min each)**
10:45 – 10:53	Imagining Alternatives: Towards High-Resolution 3D Counterfactual Medical Image Generation via Language Guidance
10:53 – 11:01	Pixels Under Pressure: Exploring Fine-Tuning Paradigms for Foundation Models in High-Resolution Medical Imaging
11:01 – 11:09	DeepGPT-DILI: Integrating Graph Convolutional Networks and Large Language Model Embeddings for Accurate Drug-Induced Liver Injury Prediction
11:09 – 11:17	From Reports to Relations: Large Language Models for Knowledge Graph Extraction from Pathology Reports
11:17 – 11:52	**Keynote III – Dr. Kevin Zhou**
11:52 – 12:10	**Paper Session IV (8 min each)**
11:52 – 12:00	3D Vision–Language Models with Segmentation-Guided Multimodal Data for Spinal MRI Report Generation
12:00 – 12:08	[Late-breaking paper or backup]
12:08	Award Announcement & Closing