

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 |
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| 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 |

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| 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. Vishal Patel |
| 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 – 12:30 | Keynote IV – Dr. Yuyin Zhou |
| 12:30 | Award Announcement & Closing |