Artificial Intelligence, Machine Learning and Medical Imaging: Applications and Implications

COLLEGE OF MEDICINE TUCSON
Radiology & Imaging Sciences

COLLEGE OF ENGINEERING
Electrical & Computer Engineering

PROGRAM

3:00 PM **Opening Remarks**
Welcome and overview

3:10 PM **Presentations + 5 min. Q&A**
Expert perspectives

4:50 PM **Summation and Outlook**
Final thoughts

5:00 PM **Reception**
Connect with attendees

MAY 12

AHSC 1302

3:00 - 5:00 PM

Reception to follow

REGISTRATION

Discover the latest breakthroughs at the intersection of artificial intelligence, machine learning, and medical imaging.

PRESENTATIONS

Fakrul Tushar, PhD	Data-Centric AI for Medical Imaging: Clinically Grounded Virtual Patients, Synthetic Data, and Reproducible Evaluation
Stephen Adamo, PhD	Medical Image Perception and AI: How Radiologists Search with AI for Breast Cancer
Abhijit Mahalanobis, PhD	Machine Learning for Multi-modal Image Synthesis and Small Event Detection
Jerzy Rozenblit, PhD	Towards Virtual Reality and Haptic Feedback Integration in Computer Assisted Surgical Training
Evan Sommer, MD, MBA	Improving the Human-Computer Interface in Medical Imaging: Exploring Virtual Reality and Opportunities for Artificial Intelligence
Eungjoo Lee, PhD	From Pixels to Diagnosis: AI-Driven Medical Image Understanding
Weimin Zhou, PhD	AI for Task-Based Optimization of Medical Imaging Systems
Ehsan Azimi, PhD	AI-Enabled XR and Digital Twins in Healthcare
Marwan Krunz, PhD	Machine Learning models for Predicting Patient Responsiveness to Cancer Treatment Based on Imaged Markers
Ravi Tandon, PhD	Reliable and Privacy-preserving Medical Imaging