

# Learning Center Theater Presentations

Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Sunday 9:30 a.m. - 10:00 a.m.</b>			
S1-STCE1	S1-STCE1-1	Science Session (Generative AI)	Virtual Reality and AI Chatbot Improve Radiology On-Call Training
S1-STCE1	S1-STCE1-2	Science Session (Generative AI)	Generation of Radiology Report's Impression from Findings' description on Pediatric Abdomen Ultrasound
S1-STCE1	S1-STCE1-3	Science Session (Generative AI)	Impact of an AI-Based Workflow in Interpretation of Chest Radiographs
S1-STCE2	S1-STCE2-1	Science Session (Theranostics)	A CD44-targeted dual-modal NIR/CEST imaging nanomicelles for triple-negative breast cancer photothermal therapy
S1-STCE2	S1-STCE2-2	Science Session (Theranostics)	Assessment of a Syndecan-1 targeted theranostic nanoparticle for improved detection and treatment of pancreatic cancer
S1-STCE2	S1-STCE2-3	Science Session (Theranostics)	Leveraging serial quantitative imaging for treatment response monitoring and dosimetry of 177 Lu-PSMA-617 therapy
<b>Sunday 10:30 a.m. - 11:00 a.m.</b>			
S2-STCE1	S2-STCE1-1	Science Session (Sustainability in Imaging)	One Small Change for Your Practice, One Giant Leap for Environmental Sustainability
S2-STCE1	S2-STCE1-2	Science Session (Sustainability in Imaging)	Energy and greenhouse gas emission savings from power down of CT scanners in non-operational hours in a large regional practice
S2-STCE1	S2-STCE1-3	Science Session (Sustainability in Imaging)	Exposing Sustainable Imaging Strategies: The Role of Practitioners in Reducing Carbon Footprint
S2-STCE2	S2-STCE2-1	Science Session (Imaging of Immunotherapy)	Combo or mono-immunotherapy in patients with metastatic MSI colorectal cancer: The role of radiologists in clinical decision-making.
S2-STCE2	S2-STCE2-3	Science Session (Imaging of Immunotherapy)	Early change of extracellular volume fraction based on contrast-enhanced CT to predict the treatment response and survival outcome of colorectal cancer liver metastases
<b>Sunday 12:00 p.m. - 12:30 p.m.</b>			
S3-STCE1	S3-STCE1-1	Science Session (Theranostics)	The Feasibility of Endovascular Management of Acute Stroke with a Large Ischemic Territory: A Meta-Analysis and Markov Cost-Effectiveness Analysis
S3-STCE1	S3-STCE1-2	Science Session (Theranostics)	Design and Creation of a 3D Printed Realistic Anthropomorphic Kidney Phantom for Theranostics (Lutetium-177) Dosimetry
S3-STCE1	S3-STCE1-3	Science Session (Theranostics)	A radiomics approach to noninvasively predict PD-1 expression and prognosis in patients with HCC treated with sorafenib after surgery
S3-STCE2	S3-STCE2-1	Science Session (Generative AI)	Evaluation of ChatGPT-Generated Pamphlets for Common Interventional Radiology Procedures
S3-STCE2	S3-STCE2-2	Science Session (Generative AI)	ChatGPT vs. Hybrid NLP/Rule Based Algorithm for Determination of Referral Specialty from Right Upper Quadrant Ultrasound Reports
S3-STCE2	S3-STCE2-3	Science Session (Generative AI)	ChatGPT for Determination of Need for Follow Up from Right Upper Quadrant Ultrasound Reports

# Learning Center Theater Presentations

Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Sunday 1:00 p.m. - 1:30 p.m.</b>			
S4-STCE1	S4-STCE1-1	Science Session (Generative AI)	A Variety Driven Generative Model for Binary Classifications in Radiological Imaging
S4-STCE1	S4-STCE1-2	Science Session (Generative AI)	GPT language models for automated synoptic reporting and determination of resectability in pancreatic cancer
S4-STCE1	S4-STCE1-3	Science Session (Generative AI)	RoentGen: Vision-Language Model for text-guided Chest X-Ray Generation
S4-STCE2	S4-STCE2-1	Science Session (Theranostics)	Impact of pre- and post-contrast-enhanced MR-based attenuation correction on tracer quantification in malignant lesions in 68Ga-DOTATOC PET/MRI
S4-STCE2	S4-STCE2-2	Science Session (Theranostics)	Assessment of Myocardial Viability in the Subacute Phase of Myocardial Infarction: A Comparative Study of Native T1, T2 Mapping, and Strain Analysis with Late Gadolinium Enhancement
S4-STCE2	S4-STCE2-3	Science Session (Theranostics)	Machine Learning-based Prediction of Ventricular Function, Myocardial T2 star, and Liver Parameters in Thalassemia Patients using MRI Images
<b>Sunday 2:30 p.m. - 3:00 p.m.</b>			
S5-STCE1	S5-STCE1-1	Science Session (Sustainability in Imaging)	Energy Stewardship in MRI
S5-STCE1	S5-STCE1-2	Science Session (Sustainability in Imaging)	Unveiling a Paradigm in Sustainable Radiography: The World's Smallest and Lightest Carbon Nanotube-Based Pocket X-ray System for Soft X-ray Imaging and Irradiation, Featuring Low Energy Consumption and Powered by AAA Batteries
S5-STCE1	S5-STCE1-3	Science Session (Sustainability in Imaging)	Evaluating Maximum Echo Time Sufficient for Quantitative Susceptibility Mapping MRI in Brain
S5-STCE2	S5-STCE2-1	Science Session (Generative AI)	Potential of Large Language Models for Chest X-ray Labeling from Their Radiology Reports
S5-STCE2	S5-STCE2-2	Science Session (Generative AI)	Comparison of diagnostic accuracy of commonly-encountered general surgery diagnoses using a novel radiology-pathology correlation tool.
<b>Monday 9:00 a.m. - 9:30 a.m.</b>			
M2-STCE1	M2-STCE1-1	Science Session (Generative AI)	Large Language Model (LLM) Based Clinical Decision Support (CDSS) Monitoring Pipeline
M2-STCE1	M2-STCE1-2	Science Session (Generative AI)	Language guided age-translated generation model to predict incident vertebral fracture using lateral spine X-ray image
M2-STCE1	M2-STCE1-3	Science Session (Generative AI)	Investigation of Implicit Gender Bias in Radiology Fellowship Letters of Recommendation Using Large Language Models
M2-STCE2	M2-STCE2-1	Science Session (Theranostics)	Hsp90 as a target for novel radiopharmaceuticals in metastatic breast cancer
M2-STCE2	M2-STCE2-2	Science Session (Theranostics)	Detection of senescent cells in pig specimen using a -gal MR imaging agent
M2-STCE2	M2-STCE2-3	Science Session (Theranostics)	Detection of senescent cells in a porcine model of osteoarthritis: A pilot study using 18F-PyGal Radiotracer

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Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Monday 10:00 a.m. - 10:30 a.m.</b>			
M3-STCE1	M3-STCE1-1	Science Session (Sustainability in Imaging)	Energy and Greenhouse Gas Emission Savings Associated with Implementation of an Abbreviated Cardiac MRI Protocol
M3-STCE1	M3-STCE1-2	Science Session (Sustainability in Imaging)	Diagnostic and Interventional Use-Phase Greenhouse Gas Emissions in a Hospital-based Medical Imaging Department
M3-STCE1	M3-STCE1-3	Science Session (Sustainability in Imaging)	Creation and Impact of a Multidisciplinary Green Radiology Leadership Team
M3-STCE2	M3-STCE2-1	Science Session (Imaging of Immunotherapy)	Early Detection of Trastuzumab Cardiac Toxicity by Cardiac MRI in HER-2 Positive Breast Cancer Patients
M3-STCE2	M3-STCE2-2	Science Session (Imaging of Immunotherapy)	Immunotherapeutic Efficacy in Cardiac Sarcoidosis Treatment Assessed by Cardiac MRI
M3-STCE2	M3-STCE2-3	Science Session (Imaging of Immunotherapy)	Deep Learning-based Harmonization of Multisite Pediatric Brain MRI Clinical Trials
<b>Monday 12:15 p.m. - 12:45 p.m.</b>			
M5-STCE1	M5-STCE1-1	Science Session (Theranostics and Musculoskeletal)	Towards A Comprehensive Taxonomy Of Common Errors In Anatomical Structure Segmentation Made By State-Of-The-Art Artificial Intelligence Models
M5-STCE1	M5-STCE1-2	Science Session (Theranostics and Musculoskeletal)	Developing A Novel Continual Learning Strategy To Address The Forgetting Problem For AI Models In Human-In-The-Loop Procedures
M5-STCE1	M5-STCE1-3	Science Session (Theranostics and Musculoskeletal)	Common Treatment Strategies for Calcium Hydroxyapatite Deposition Disease: A Cost Effectiveness Analysis
M5-STCE2	M5-STCE2-1	Science Session (Generative AI)	Can An Artificial Intelligence System Help Entry-level Radiologists Reduce Unnecessary Biopsy Of Benign Lesions In Mammograms?
M5-STCE2	M5-STCE2-2	Science Session (Generative AI)	Explaining an AI classifier as a combination of words: application to breast mass classification
M5-STCE2	M5-STCE2-3	Science Session (Generative AI)	Transformer-based Multimodal Generative Model - Use-case of Screening Mammogram Reading
<b>Monday 1:30 p.m. - 2:00 p.m.</b>			
M6-STCE1	M6-STCE1-1	Science Session (Generative AI)	A comparative analysis of Speech Recognition Pipelines augmented by Large Language Models (LLMs) for Radiology Reporting: A 2023 Update
M6-STCE1	M6-STCE1-2	Science Session (Generative AI)	Optimising Large Language Model (LLM) augmented Speech Recognition for Reporting in Radiology: Achieving Near-Zero Error Rates through advanced Prompt Engineering
M6-STCE1	M6-STCE1-3	Science Session (Generative AI)	Predicting Complications of Percutaneous Transhepatic Biliary Stenting using Machine Learning: A CT Imaging and Clinical Characteristics-based Approach
M6-STCE2	M6-STCE2-1	Science Session (Theranostics)	Measurement of Tumor Total Diffusion Volume (tDV) of Metastatic Bone Lesions from Prostate Cancer Using Whole-Body MRI(WB-MRI)- Evaluation for Therapeutic Effect-
M6-STCE2	M6-STCE2-2	Science Session (Theranostics)	An evaluation of the performance of AI segmentation of lesions and liver MRI scans: are expert radiology reviews necessary?
M6-STCE2	M6-STCE2-3	Science Session (Theranostics)	Positron emission tomography (PET) imaging to evaluate in-vivo augmentation of chimeric antigen receptor (CAR)-T cell trafficking following peptide receptor radionuclide therapy (PRRT) in a mouse model of glioblastoma

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Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Monday 2:30 p.m. - 3:00 p.m.</b>			
M7-STCE1	M7-STCE1-1	Science Session (Sustainability in Imaging and Imaging of Immunotherapy)	The Role of Non-Contrast Cardiac MRI Parameters in The Monitoring of The Effects of Immunochemotherapy Regimens in Light-Chain Cardiac Amyloidosis: A Prospective Study
M7-STCE1	M7-STCE1-2	Science Session (Sustainability in Imaging and Imaging of Immunotherapy)	Radiomic features Identifies responders in CAR-T based immunotherapy
M7-STCE1	M7-STCE1-3	Science Session (Sustainability in Imaging and Imaging of Immunotherapy)	Radiology and Sustainability: The Experience of the First Carbon-neutral Hospital in Brazil
M7-STCE2	M7-STCE2-1	Science Session (Generative AI)	Mammoformer: A Robustly Optimized Transformer-based Language Model for Label Extraction in Mammography Report
M7-STCE2	M7-STCE2-2	Science Session (Generative AI)	MammoGPT: A Large Language model for Mammography-related dialogues
M7-STCE2	M7-STCE2-3	Science Session (Generative AI)	Classification of Alzheimer's Disease Severity from MRI Scans: Vision Transformer versus Convolutional Neural Network Approach
<b>Tuesday 9:00 a.m. - 9:30 a.m.</b>			
T2-STCE1	T2-STCE1-1	Science Session (Generative AI)	Leveraging GPT-4 for Imaging Protocol Selection from Clinical Indications in Accordance with ACR Appropriateness Criteria
T2-STCE1	T2-STCE1-2	Science Session (Generative AI)	Evaluation of Effect of Knowledge Base on ChatGPT's Performance on the RANZCR Clinical Radiology Phase 2 Style Written Exam
T2-STCE1	T2-STCE1-3	Science Session (Generative AI)	Generative AI Synthesizes High-Fidelity fMRI from MRI and EEG
T2-STCE2	T2-STCE2-1	Science Session (Theranostics)	Nanoscale NIRII tracing combined with immunology reveals the dynamic progress of the atherosclerotic plaque immune microenvironment
T2-STCE2	T2-STCE2-2	Science Session (Theranostics)	Optimizing Tumor Retention using In Situ Site-Specific Self-Assembly of Modified Probes
T2-STCE2	T2-STCE2-3	Science Session (Theranostics)	Precise Prediction of ischemic and nonischemic myocardial injury: Establish and Verify the Feasibility of Extracellular volume-based Nomogram
<b>Tuesday 10:00 a.m. - 10:30 a.m.</b>			
T3-STCE1	T3-STCE1-1	Science Session (Sustainability in Imaging)	Addressing Healthcare's Carbon Footprint: Imaging Practices and Environmental Impact
T3-STCE1	T3-STCE1-2	Science Session (Sustainability in Imaging)	Environmental Sustainability of Syringeless Multi-Dose Contrast Injectors in Radiological Procedures
T3-STCE1	T3-STCE1-3	Science Session (Sustainability in Imaging)	A Global Assessment of Energy Consumption in Radiology and Radiation Oncology: An Environmental Impact Study
T3-STCE2	T3-STCE2-1	Science Session (Imaging of Immunotherapy)	<sup>18</sup> F-BMS-986192 Molecular Imaging of programmed cell death ligand 1 expression in the liver and spleen in patients with breast cancer receiving combined immuno-chemotherapy
T3-STCE2	T3-STCE2-2	Science Session (Imaging of Immunotherapy)	Assessment and prognostication of immunotherapy related adverse cardiovascular events with cardiac MRI
T3-STCE2	T3-STCE2-3	Science Session (Imaging of Immunotherapy)	Genomic-Based Personalized Therapies and Precision Imaging in Cholangiocarcinoma Patients: A Study at Two German Comprehensive Cancer Centers

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Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Tuesday 12:15 p.m. - 12:45 p.m.</b>			
T5-STCE1	T5-STCE1-1	Science Session (Theranostics)	Ultrasound viscoelasticity measurements of carotid artery wall in healthy adults: a prospective study
T5-STCE1	T5-STCE1-2	Science Session (Theranostics)	177 Lu PSMA in Metastatic Castration Resistant Prostate Cancer Treatment: Brazilian Multicentric Study Preliminary Analysis
T5-STCE1	T5-STCE1-3	Science Session (Theranostics)	Assessment Of Metabolic Tumor Burden In Primary Staging Of Rectal Cancers Using Fdg Pet/Ct
T5-STCE2	T5-STCE2-1	Science Session (Generative AI)	Multimodal Medical Image Classification: A Comparative Study of Vision Transformers and Convolutional Neural Networks
T5-STCE2	T5-STCE2-2	Science Session (Generative AI)	The Synthesis of 7T from 3T Brain MRI Scans and Magnetic Field Strength Classification: A Vision Transformer and Convolutional Autoencoder Approach
T5-STCE2	T5-STCE2-3	Science Session (Generative AI)	Simplifying Radiology reports into layman language with Large Language Models: a pilot study of effect on patient satisfaction
<b>Tuesday 1:30 p.m. - 2:00 p.m.</b>			
T6-STCE1	T6-STCE1-1	Science Session (Generative AI)	Ensuring Generative AI Safety for Radiology Report Rewriting by Contrastive Pretraining
T6-STCE1	T6-STCE1-2	Science Session (Generative AI)	From Abstract to Impact: Using LLM to Classify and Rank the Clinical Significance of Artificial Intelligence (AI)-related RSNA Abstracts
T6-STCE1	T6-STCE1-3	Science Session (Generative AI)	WESTERN-RLP: Augmenting Image-Caption Radiology Datasets using Image Embeddings Search of Large-Scale Natural Image Databases for Generative LLM VQA
T6-STCE2	T6-STCE2-1	Science Session (Theranostics)	Uterine Artery Embolization for Adenomyosis. A Review of Imaging, Techniques, Complications and Outcomes
T6-STCE2	T6-STCE2-2	Science Session (Theranostics)	Multitask deep learning for prediction of microvascular invasion and recurrence-free survival in hepatocellular carcinoma based on MRI images: a multicenter retrospective study
T6-STCE2	T6-STCE2-3	Science Session (Theranostics)	CMR and Endomyocardial Biopsy in Acute Myocarditis: Unveiling False-Negative Results and the Role of the 2018 Lake Louise Criteria
<b>Tuesday 2:30 p.m. - 3:00 p.m.</b>			
T7-STCE1	T7-STCE1-1	Science Session (Theranostics)	Targeted theranostic nanomedicine, using targeted CT-imageable particles that release the bispecific antibody IMC-KRASG12D with the KRASG12D neoantigen, directed by two radiation sessions.
T7-STCE1	T7-STCE1-2	Science Session (Theranostics)	Assessment of Oxygen Saturation in Breast Tumors Using Photoacoustic Imaging: Correlation with Benign and Malignant Disease
T7-STCE1	T7-STCE1-3	Science Session (Theranostics)	Proposal for New Diagnostic Criteria for Sarcopenia Based on CT Imaging in Saudi Population
T7-STCE2	T7-STCE2-1	Science Session (Sustainability in Imaging)	Field Strength-Dependent Differences in Energy Consumption of MRI Pulse Sequences - Comparison Between 0.55T, 1.5T and 3T
T7-STCE2	T7-STCE2-2	Science Session (Sustainability in Imaging)	The Energy Consumption of Angiography in Interventional Radiology - Operational Strategies to Reduce Carbon Footprint and Costs
T7-STCE2	T7-STCE2-3	Science Session (Sustainability in Imaging)	Revolutionizing 3T Animal Imaging: Metamaterials' Advantages in Enhancing Contrast and Low-Carbon Endeavors

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Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Wednesday 9:00 a.m. - 9:30 a.m.</b>			
W2-STCE1	W2-STCE1-1	Science Session (Generative AI)	Advanced Oncologist Assistance: Generating Alarms for new Oncologic Issues based on Radiologic Reports of Serial CT Scans with GPT-4
W2-STCE1	W2-STCE1-2	Science Session (Generative AI)	Generative Language Model for Risk-Specific Metabolic Health Report Generation from Deep Learning-Based Opportunistic Assessment of Lung Cancer Screening CT
W2-STCE1	W2-STCE1-3	Science Session (Generative AI)	Utilizing Large Language Models for Neuro-Oncologic Prediction: A Multi-Center Study on Magnetic Resonance Imaging Reports
W2-STCE2	W2-STCE2-1	Science Session (Theranostics)	Prediction of Interval Growth of Lung Adenocarcinomas Manifesting as Persistent Subsolid Nodules $\leq$ 3 cm Based on Radiomic Features
W2-STCE2	W2-STCE2-2	Science Session (Theranostics)	Automated ASPECTS Calculation May Equal the Performance of Experienced Clinicians: A Machine Learning Study based on a Large Cohort
W2-STCE2	W2-STCE2-3	Science Session (Theranostics)	Assessment of Parameter Maps and Ischemic Volumes with Different CT Perfusion Software: A Comparative Study
<b>Wednesday 10:00 a.m. - 10:30 a.m.</b>			
W3-STCE1	W3-STCE1-1	Science Session (Sustainability in Imaging)	Safety of gadopicleinol for magnetic resonance imaging (MRI): a pooled analysis of eight studies
W3-STCE1	W3-STCE1-2	Science Session (Sustainability in Imaging)	Energy Consumption, Cost and Carbon Footprint of Point-of-Care Medical 3D Printing
W3-STCE1	W3-STCE1-3	Science Session (Sustainability in Imaging)	As Low as Reasonably Achievable: Reducing plastic waste and optimizing cost efficiency in musculoskeletal interventional procedures.
W3-STCE2	W3-STCE2-1	Science Session (Imaging of Immunotherapy)	Morphologic Variations Quantified Over Time for Unresectable Primary Liver Tumors after Checkpoint Inhibition as an Alternate to Standard Response Criteria
W3-STCE2	W3-STCE2-2	Science Session (Imaging of Immunotherapy)	Improving Clear Cell Renal Cell Carcinoma PD-L1 Expression Prediction from CT Radiomics with Green Learning
W3-STCE2	W3-STCE2-3	Science Session (Imaging of Immunotherapy)	Development and clinical validation of an AI-based assistive software tool for automated detection and quantification of amyloid-related imaging abnormalities
<b>Wednesday 12:15 p.m. - 12:45 p.m.</b>			
W5-STCE1	W5-STCE1-1	Science Session (Theranostics)	A 18F-FDG PET Based Nomogram to Diagnose Cancer-associated Cachexia and Predict Prognosis: A Multicenter Study
W5-STCE1	W5-STCE1-2	Science Session (Theranostics)	Fast Magnetic Resonance Angiography of the Cervical Arteries Without Gadolinium Contrast: Clinical Evaluation of Highly Compressed SENSE accelerated Relaxation-Enhanced Angiography without Contrast and Triggering (REACT) in Patients with Acute Ischemic Stroke
W5-STCE1	W5-STCE1-3	Science Session (Theranostics)	Development of Theranostic 177 Lu-labeled Semiconducting Polymer Dots (pDots) for the Treatment of Head and Neck Cancer
W5-STCE2	W5-STCE2-1	Science Session (Generative AI)	AI chatbots' ability to provide accurate information relevant to the informed consent process for musculoskeletal radiology procedures
W5-STCE2	W5-STCE2-2	Science Session (Generative AI)	Artificial intelligence chatbots' understanding of the risks and benefits of computed tomography and magnetic resonance imaging scenarios
W5-STCE2	W5-STCE2-3	Science Session (Generative AI)	Top of the Class: GPT-4 Achieves Near Perfect Score and Outperforms Popular Large Language Models in Radiology Board Exam

# Learning Center Theater Presentations

Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Wednesday 1:30 p.m. - 2:00 p.m.</b>			
W6-STCE1	W6-STCE1-1	Science Session (Generative AI)	GPT-4 Analysis of MRI Reports in Suspected Myocarditis: A Multicenter Study
W6-STCE1	W6-STCE1-2	Science Session (Generative AI)	Exploring Racial Disparities in Imaging Datasets via Generative AI: A Path to Enhanced Model Transparency
W6-STCE1	W6-STCE1-3	Science Session (Generative AI)	Leveraging Chat GPT-4 for Automatic Labeling of Lung Cancer Staging from Chest CT and PET-CT Reports: A Multimodal and Multilingual Approach
W6-STCE2	W6-STCE2-1	Science Session (Theranostics)	Semi-automatic measurement of carotid intima-media thickness in atherosclerosis
W6-STCE2	W6-STCE2-2	Science Session (Theranostics)	PSMA PET-Supported Differential Diagnosis of Dural-Based Intracranial Lesions in Patients with Metastatic Prostate Cancer: A Common Clinical Scenario with Implications for Theranostic Management.
W6-STCE2	W6-STCE2-3	Science Session (Theranostics)	Ringlike late gadolinium enhancement provides incremental prognostic value in non-classical arrhythmogenic cardiomyopathy
<b>Wednesday 2:30 p.m. - 3:00 p.m.</b>			
W7-STCE1	W7-STCE1-1	Science Session (Sustainability in Imaging)	Advancing sustainability and energy efficient MRI operations through Fast Imaging Techniques
W7-STCE1	W7-STCE1-2	Science Session (Sustainability in Imaging)	Shedding Light on Sustainability for Radiologists - A Comprehensive Life Cycle Assessment (LCA) of a Diagnostic Radiology Department
W7-STCE1	W7-STCE1-3	Science Session (Sustainability in Imaging)	Spinning Radiology Resources: Balancing environmental and economic considerations with circular business models including extending scanner lifespan, software upgrades, repair, refurbishment, and leases
W7-STCE2	W7-STCE2-1	Science Session (Generative AI)	Clinical benefit of AI-based Chest X-ray Reading Support for non-radiology physicians in clinical routine
W7-STCE2	W7-STCE2-2	Science Session (Generative AI)	Grounding Large Language Models in Evidence: A Systematic Approach to Mitigate Hallucination Errors in Automated Radiology Question-Answering Systems
W7-STCE2	W7-STCE2-3	Science Session (Generative AI)	Report Generation of Chest Radiographs Utilizing a Multimodal Transformer Model
<b>Thursday 9:00 a.m. - 9:30 a.m.</b>			
R2-STCE1	R2-STCE1-1	Science Session (Generative AI)	Detecting Prior References and Inconsistencies in Follow-up CT Reports using Instruction-tuned Large Language Model : A Multilingual Feasibility Study
R2-STCE1	R2-STCE1-2	Science Session (Generative AI)	Leveraging GPT-4 for Error Detection on Brain CT Report : A Comparative Study of Different Report Formats and Error Types
R2-STCE1	R2-STCE1-3	Science Session (Generative AI)	Few-Shot Prompting for Labeling Free-Text Radiology Report Using GPT-4
R2-STCE2	R2-STCE2-1	Science Session (Theranostics)	The relationship between preoperative Prostate Imaging Reporting and Data System version 2.1 and Gleason score change after radical prostatectomy
R2-STCE2	R2-STCE2-2	Science Session (Theranostics)	Can a Radiomics-Based Diagnostic Tool Predict Cancer-Associated Cachexia in Stage IV Non-Small-Cell Lung Cancer Patients? A Prospective Study Using Plain CT Imaging
R2-STCE2	R2-STCE2-3	Science Session (Theranostics)	Left atrial myocardial fibrosis assessed with 3D high-resolution LGE-MRI in patients with atrial fibrillation

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<b>Thursday 10:00 a.m. - 10:30 a.m.</b>			
R3-STCE1	R3-STCE1-1	Science Session (Sustainability in Imaging)	MRI Load Profile Characterization Across Scanner Manufacturers and Field Strengths - Opportunities for Energy Efficiency Improvements
R3-STCE1	R3-STCE1-2	Science Session (Sustainability in Imaging)	Contrasting Carbon Emissions of Two Machine Learning Training Approaches: From Scratch Versus Pretrained Models
R3-STCE1	R3-STCE1-3	Science Session (Sustainability in Imaging)	Sustainable Radiology Education: The Impact of RSNA Radiology Podcast on Radiology Journal Article Impact Including Downloads, Citations, and Altmetric Scores
R3-STCE2	R3-STCE2-1	Science Session (Imaging of Immunotherapy)	Diagnostic accuracy of Imaging findings in the detection of lymph node metastasis in patients with Head and neck cancer
R3-STCE2	R3-STCE2-2	Science Session (Imaging of Immunotherapy)	Label-free metabolic imaging for robust monitoring of cetuximab-targeted therapy response in head and neck cancer
R3-STCE2	R3-STCE2-3	Science Session (Imaging of Immunotherapy)	Beyond the Spectrum: A Novel Imaging Response in Triple-Negative Breast Cancer Patients Undergoing Preoperative Immuno-chemotherapy
<b>Thursday 12:15 p.m. - 12:45 p.m.</b>			
R5-STCE1	R5-STCE1-1	Science Session (Theranostics)	A multimodal deep learning network for non-invasive prediction of the hepatic decompensation risk in compensated cirrhotic people: a multicenter cohort study
R5-STCE1	R5-STCE1-2	Science Session (Theranostics)	The Pattern of Tumor Enhancement and Shrinkage in DCE-MRI Predicts the PCR after Targeted Therapy for HER2-Positive Breast Cancer
R5-STCE1	R5-STCE1-3	Science Session (Theranostics)	A Semi-weakly Learning Framework for Asymmetry and Architectural Detection on Mammograms
R5-STCE2	R5-STCE2-1	Science Session (Generative AI)	Towards Automated Procedural Registry for Interventional Oncology: Feasibility of Using GPT-4 to Extract Critical Diagnostic Imaging Report Findings
R5-STCE2	R5-STCE2-2	Science Session (Generative AI)	Assessing the Diagnostic Accuracy of Computer-Aided Detection and Stereotactic Biopsy Rates: A Retrospective Cohort Study
R5-STCE2	R5-STCE2-3	Science Session (Generative AI)	Machine learning approaches to CT and MRI protocol assignment: comparison of foundation and fine-tuned large language models with a conventional classifier.
<b>Thursday 1:30 p.m. - 2:00 p.m.</b>			
R6-STCE1	R6-STCE1-1	Science Session (Generative AI)	PromptWise: Introducing Prompt Engineering Paradigm for Enhanced Patient-Large Language Model Interactions Towards Medical Education
R6-STCE1	R6-STCE1-2	Science Session (Generative AI)	Exploratory Analysis of Radiomics Data from the ATACHII Trial Using Generative AI
R6-STCE1	R6-STCE1-3	Science Session (Generative AI)	Multimodal foundation model (GPT-4) for chest X-ray impression generation: Performance, perception, and evaluation.
R6-STCE2	R6-STCE2-1	Science Session (Sustainability in Imaging)	Artificial Intelligence Enabled Acceleration Reduces the Carbon Footprint of MRI
R6-STCE2	R6-STCE2-2	Science Session (Sustainability in Imaging)	Abbreviated MRI for Hepatocellular Carcinoma Screening Reduces Carbon Footprint
R6-STCE2	R6-STCE2-3	Science Session (Sustainability in Imaging)	Comparison of the carbon footprint of CT and wide-angle tomosynthesis



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Session Number	Abstract Presentation Number	Session Title	Abstract Title
<b>Thursday 2:30 p.m. - 3:00 p.m.</b>			
R7-STCE1	R7-STCE1-1	Science Session (Theranostics)	Photoacoustic imaging radiomic to identify breast cancer in BI-RADS 4 or 5 lesions
R7-STCE1	R7-STCE1-2	Science Session (Theranostics)	STP+SC2F: Transformer-based Transfer Learning Framework for Asymmetry and Architectural Distortion Detection on Mammograms
R7-STCE1	R7-STCE1-3	Science Session (Theranostics)	Deciphering the Disruption of Abnormal Functional Gradient Distribution and Brain Network Connectivity Decoupling in Spinocerebellar Ataxia Type 3
R7-STCE2	R7-STCE2-1	Science Session (Generative AI)	Large language model improves detection of negated expressions in radiology reports
R7-STCE2	R7-STCE2-2	Science Session (Generative AI)	Glioblastoma Monitoring using GPT-4 for Summarization of Radiological Reports
R7-STCE2	R7-STCE2-3	Science Session (Generative AI)	Adapting Large Language Models for Personalized Impression Generation in PET reports: Expert Evaluation