Artificial Intelligence

RADIOLOGICAL SOCIETY
OF NORTH AMERICA
105th Scientific Assembly
and Annual Meeting

Meeting.RSNA.org
#RSNA19
Walk Through the Week

Saturday, Nov. 30, 2019

2:15–4:15 PM
Educational Courses
AAPM/RSNA Physics Tutorial Session 2
Session SPPH02 . . . . . . . . . . . . . . . . . . . . . E351

Sunday, Dec. 1, 2019

10:30 AM–12:00 PM
Educational Courses
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI11 . . . . AI Showcase North Building Level 2

10:30–10:50 AM
Showcase Presentations
RSNA AI Theater: How to Enhance your Chest CT Interpretation with AI-powered QCT: Presented by VIDA
Session AI11 . . . . . . AI Showcase North Building Level 2

10:30–11:00 AM
Vendor Workshops
AI Deep Learning Radiology Assist in Reviewing ABUS Cases: Presented by GE Healthcare
Session VW34 . . . . . South Building, Booth 5135

10:45 AM–12:15 PM
Scientific Papers Sessions
Breast Imaging (Artificial Intelligence in Screening)
Session SSA01 . . . . . . . . . . . . . . . . . . . . . S406A
Gastrointestinal (Radiomics)
Session SSA08 . . . . . . . . . . . . . . . . . . . . . S104A
Science Session with Keynote: Informatics (Artificial Intelligence: Cutting Edge Artificial Intelligence)
Session SSA12 . . . . . . . . . . . . . . . . . . . . . E450A
Neuroradiology (Stroke 1)
Session SSA17 . . . . . . . . . . . . . . . . . . . . . S501ABC

11:00–11:20 AM
Showcase Presentations
RSNA AI Theater: Japan’s Startup Unlocking the Power of AI: Presented by LPIXEL, Inc.
Session AI12 . . . . . . AI Showcase North Building Level 2
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
</tr>
</thead>
</table>
| 11:00–11:45 AM  | **Vendor Workshops**  
Efficacy in Diagnosis with Tomosynthesis in Daily Practice  
(En Español): Presented by Hologic, Inc.  
Session VW63 . . . . . . . . . . . . . South Building, Booth 5119 |                                   |
| 11:30–11:50 AM  | **Showcase Presentations**  
RSNA AI Theater: How Subtle Medical Can Improve Operational Efficiency and Patient Satisfaction: Presented by Subtle Medical  
Session AI3 . . . . . . . . . . . . . AI Showcase, North Building, Level 2 |                                   |
| 12:00–12:20 PM  | **Showcase Presentations**  
RSNA AI Theater: Practical AI: How Is It Really Helping Patients Today: Presented by Viz.ai  
Session AI4 . . . . . . . . . . . . . AI Showcase North Building Level 2 |                                   |
| 12:15–1:30 PM   | **Vendor Workshops**  
Implementing Contrast Enhanced Digital Mammography into your Practice: Presented by Hologic, Inc.  
Session VW64 . . . . . . . . . . . . . South Building, Booth 5119 |                                   |
| 12:30–12:50 PM  | **Showcase Presentations**  
RSNA AI Theater: iBiopsy®-Leveraging AI Technologies in Imaging to Unlock the Power of Precision Medicine: Presented by Median Technologies  
Session AI5 . . . . . . . . . . . . . AI Showcase North Building Level 2 |                                   |
| 12:30–1:00 PM   | **Posters and Exhibits: Discussions**  
Artificial Intelligence Sunday Poster Discussions  
Session AIS-SUA . . . . . . . . . . . . . Al Community, Learning Center |                                   |
| 1:00–2:30 PM    | **Educational Courses**  
RSNA AI Deep Learning Lab: Segmentation  
Session SPAI12 . . . . . . . . . . . . . AI Showcase North Building Level 2 |                                   |
| 1:00–1:20 PM    | **Showcase Presentations**  
RSNA AI Theater: Comparing Advanced MRI Acquisition Acceleration Methods: Compressed Sensing versus AI-based Iterative Image Reconstruction: Presented by Medic Vision  
Session AI6 . . . . . . . . . . . . . AI Showcase North Building Level 2 |                                   |
| 1:00–1:30 PM    | **Posters and Exhibits: Discussions**  
Artificial Intelligence Sunday Poster Discussions  
Session AIS-SUB . . . . . . . . . . . . . AI Community, Learning Center |                                   |
| 1:30–1:50 PM    | **Showcase Presentations**  
RSNA AI Theater: Building Trust in AI from the Ground Up: Presented by Koios Medical  
Session AI17 . . . . . . . . . . . . . AI Showcase North Building Level 2 |                                   |
| 2:00–3:30 PM    | **Educational Courses**  
Hands-on Artificial Intelligence for Non-coders: How is an Intracranial Hemorrhage Detection Algorithm Created? (Hands-on)  
Course RCA12 . . . . . . . . . . . . . S401AB  
Ethics of AI in Radiology: Summary of the European and North American Multisociety Statement  
Course RCC12 . . . . . . . . . . . . . E451A |                                   |
| 2:00–2:20 PM    | **Showcase Presentations**  
RSNA AI Theater: Practical Deep Learning for Breast Cancer Screening: Presented by Kheiron Medical Technologies, Ltd.  
Session AI18 . . . . . . . . . . . . . AI Showcase North Building Level 2 |                                   |
| 2:00–3:15 PM    | **Vendor Workshops**  
Increase Confidence and Improve Workflow Efficiencies with High Resolution Imaging Technology: Presented by Hologic, Inc.  
Session VW65 . . . . . . . . . . . . . South Building, Booth 5119 |                                   |
| 2:30–3:00 PM    | **Vendor Workshops**  
AI-based Decision Support for Diagnostic Breast Ultrasound: Presented by GE Healthcare  
Session VW38 . . . . . . . . . . . . . South Building, Booth 5135 |                                   |
| 3:00–4:30 PM    | **Educational Courses**  
RSNA AI Deep Learning Lab: Data Science: Data Wrangling  
Session SPAI13 . . . . . . . . . . . . . AI Showcase North Building Level 2 |                                   |
| 3:45–5:00 PM    | **Vendor Workshops**  
Clinical Perspective on 3D™ Guided Breast Biopsy and Real-Time Specimen Imaging: Presented by Hologic, Inc.  
Session VW66 . . . . . . . . . . . . . South Building, Booth 5119 |                                   |
| 4:00–5:30 PM    | **Educational Courses**  
Hands-on Artificial Intelligence for Non-coders: Object Localization and Image Segmentation (Hands-on)  
Course RCA13 . . . . . . . . . . . . . S401AB |                                   |
Creating Publicly Accessible Radiology Imaging Resources for Machine Learning and AI
Course RCC13 .................................................. E353C

Monday, Dec. 2, 2019

7:15–8:15 AM
Educational Courses
Hot Topic Session: Radiomics in Thoracic Imaging
Session SPSSH20 .................................................. E350

8:30–9:30 AM
Corporate Symposium
Session CS22 .......................................................... S102AB

8:30–10:00 AM
Educational Courses
Artificial Intelligence and Precision Education: How AI Can Revolutionize Training in Radiology
Course RC202 .......................................................... E450A

8:30 AM–12:00 PM
Educational Courses
Neuroradiology Series: AI in Neuroradiology
Course RC205 .......................................................... S406B

9:00–10:30 AM
Corporate Symposium
Hot Topics in Contrast-Enhanced MRI: Presented by Northwest Imaging Forums, educational grant provided by Bracco Diagnostics, Inc.
Session CS21 .......................................................... S101AB

10:30 AM–12:00 PM
Educational Courses
Novel Discoveries Using the NCI’s Cancer Imaging Archive (TCIA) Public Data Sets
Course RCC22 .......................................................... E353A
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)
Session SPAI21 .............................................. AI Showcase North Building Level 2

10:30 AM–12:00 PM
Scientific Papers Sessions
Chest (Radiomics - Malignancy)
Session SSC03 .......................................................... E451A
Science Session with Keynote: Emergency Radiology (Imaging Algorithms and Technique)
Session SSC04 .......................................................... S102CD

10:30–10:50 AM
Showcase Presentations
RSNA AI Theater: SwiftMR: MRI Acceleration using Deep Learning Reconstruction: Presented by AIRS MEDICAL
Session AI21 .............................................. AI Showcase North Building Level 2

10:30–11:00 AM
Vendor Workshops
Breaking Down Barriers in AI Development for Lesion Identification in Breast Care using Ultrasound: Presented by GE Healthcare
Session VW41 .............................................................. South Building, Booth 5135

10:30–11:15 AM
Vendor Workshops
Session VW67 .............................................................. South Building, Booth 5119

11:00–11:20 AM
Showcase Presentations
RSNA AI Theater: Empowering Data Science with Imaging: Presented by OneMedNet Corporation
Session AI22 .............................................. AI Showcase, North Building, Level 2

11:30–11:50 AM
Showcase Presentations
RSNA AI Theater: Comparing Your Case to Massive Databases as a Key to Precision Medicine: Presented by contextflow
Session AI23 .............................................. AI Showcase, North Building, Level 2

11:30 AM–12:00 PM
Vendor Workshops
Risk-based Breast Cancer Screening and Breast Density Assessment: Presented by GE Healthcare
Session VW42 .............................................................. South Building, Booth 5135

11:45 AM–12:30 PM
Vendor Workshops
Personalizing Mammography: Managing the High-risk Patient to the Dense Breast Patient: Presented by Hologic, Inc.
Session VW68 .............................................................. South Building, Booth 5119
12:00–12:20 PM
**Showcase Presentations**
3D + AV Theater: New Patient-tailored Radiology based on a Synergy of Artificial Intelligence and 3D Printing: Presented by Medical IP

**Session 3D23 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3D Printing & AV Theater North Building**

RSNA AI Theater: AI Integrated in Daily Workflow with QUIBIM Precision: Visualize, Annotate, Quantify, Report and Discover: Presented by QUIBIM

**Session AI24 . . . . . . AI Showcase North Building Level 2**

12:15–12:45 PM
**Posters and Exhibits: Discussions**
Artificial Intelligence Monday Poster Discussions

**Session AIS-MOA . . . . . . AI Community, Learning Center**

12:30–1:30 PM
**Lunch and Learns**
Lunch and Learn: Case Studies of How Subtle Medical Software Solutions Improve Clinical Productivity, Quality and Safety of Medical Imaging: Presented by Subtle Medical, Inc. (Invite-only)

**Session LL11 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S403B**

Lunch and Learn: Putting AI into Practice: Today's Clinical Successes and Considerations for AI Deployment in the Radiologist Workflow: Presented by Fujifilm Medical Systems (RSVP-required)

**Session LL13 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S403A**

12:30–12:50 PM
**Showcase Presentations**
RSNA AI Theater: Will an Algorithm Work in your Environment? The Role of Analytics in Spotting "Hits and Misses": Presented by Nuance Communications

**Session AI25 . . . . . . AI Showcase North Building Level 2**

12:45–1:15 PM
**Showcase Presentations**
RSNA AI Theater: In the Quest to Democratize AI, Smart Devices and Integrated Workflows Matter: Presented by GE Healthcare

**Session AI26 . . . . . . AI Showcase North Building Level 2**

1:00–1:20 PM
**Showcase Presentations**
RSNA AI Theater: In the Quest to Democratize AI, Smart Devices and Integrated Workflows Matter: Presented by GE Healthcare

**Session AI26 . . . . . . AI Showcase North Building Level 2**

1:00–2:30 PM
**AI Hands-on Workshop**
Getting Value from AI in your Clinical Workflow: Presented by ARTERYS

**Session HW22 . . . . . . AI Showcase North Building Level 2, Booth 11536**

1:00–2:00 PM
**Vendor Workshops**

**Session VW69 . . . . . . . . . . . . . South Building, Booth 5119**

1:30–3:00 PM
**Educational Courses**
Molecular Imaging Symposium: Neurologic MI Applications

**Course MSMI23 . . . . . . . . . . . . . . . . . . . . . . . . . S405AB**

1:30–1:50 PM
**Showcase Presentations**
RSNA AI Theater: It’s Real, It Works and It’s Now! Take AI Out of the Lab and into Clinical Practice: Presented by Infervision

**Session AI27 . . . . . . AI Showcase North Building Level 2**

2:00–3:00 PM
**Corporate Symposium**
Advances in MR & CT Imaging: Emphasis on Artificial Intelligence: Presented by the Institute for Advanced Medical Education (IAME), educational grant provided by Canon Medical Systems USA, Inc.

**Session CS24 . . . . . . . . . . . . . . . . . . . . . . . . . S101AB**

2:00–3:30 PM
**Corporate Symposium**
Enhancing Patient Care in CTEPH through Imaging Innovation: Presented by Bayer and Siemens Healthineers

**Session CS26 . . . . . . . . . . . . . . . . . . . . . . . . . S105D**

2:00–2:20 PM
**Showcase Presentations**
RSNA AI Theater: Next-Generation Radiology AI: The Journey from an AI Algorithm to a Partner: Presented by Aidoc

**Session AI28 . . . . . . AI Showcase North Building Level 2**
**Tuesday, Dec. 3, 2019**

**8:30 AM–12:00 PM**
**Educational Courses**
Breast Series: Emerging Technologies (The In-Person Presentation is Supported by an Unrestricted Educational Grant from Hologic)
**Course RC315** . . . . . . . . . . . . . . . . . . . . . . . . . Arie Crown Theater

**9:00–10:30 AM**
**Corporate Symposium**
Creating Winning Workflows: Identifying Pain Points and Solutions within Radiology Workflow: Presented by Philips
**Session CS31** . . . . . . . . . . . . . . . . . . . . . . . . . . . S101AB

**9:00–10:00 AM**
**Corporate Symposium**
Provider Panel: An Inside Look at Clinical Experiences with AI: Presented by IBM Watson Health
**Session CS33** . . . . . . . . . . . . . . . . . . . . . . . . . . . S105D

**10:30 AM–12:00 PM**
**Educational Courses**
RSNA AI Deep Learning Lab: Generative Adversarial Networks (GANs)
**Session SPAI31** . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

**10:30 AM–12:00 PM**
**Scientific Papers Sessions**
Science Session with Keynote: Chest (Pulmonary Vasculature and Angiography/Dual Energy CT)
**Session SSG03** . . . . . . . . . . . . . . . . . . . . . . . . . . . S404CD
Informatics (Artificial Intelligence: NLP and Reporting)
**Session SSG06** . . . . . . . . . . . . . . . . . . . . . . . . . . . S406A
Musculoskeletal (Machine Learning and Artificial Intelligence)
**Session SSG08** . . . . . . . . . . . . . . . . . . . . . . . . . . . E451A
Physics (Deep Learning - Clinical Applications)
**Session SSG13** . . . . . . . . . . . . . . . . . . . . . . . . . . . S502AB

**10:30–10:50 AM**
**Showcase Presentations**
RSNA AI Theater: AI-powered Precision Diagnostics: Beyond Expert Level Imaging Biomarkers for Chest and Breast Imaging: Presented by Lunit
**Session AI30** . . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

**11:50 AM–12:00 PM**
**Showcase Presentations**
RSNA AI Theater: AI-powered Precision Diagnostics: Beyond Expert Level Imaging Biomarkers for Chest and Breast Imaging: Presented by Lunit
**Session AI31** . . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

---

**2:30–2:50 PM**
**Showcase Presentations**
RSNA AI Theater: Practical Experience with Production Deployment of AI: Presented by Zebra Medical Vision and Intermountain Healthcare
**Session AI29** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

**2:30–3:45 PM**
**Vendor Workshops**
Clinical Perspective on 3D™ Guided Breast Biopsy and Real-time Specimen Imaging: Presented by Hologic, Inc.
**Session VW70** . . . . . . . . . . . . . . . . . . . . . . . . . . . . South Building, Booth 5119

**3:00–4:30 PM**
**Educational Courses**
RSNA AI Deep Learning Lab: Generative Adversarial Networks (GANs)
**Session SPAI23** . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

**3:00–4:00 PM**
**Scientific Papers Sessions**
Chest (Radiomics and Machine Learning)
**Session SSE05** . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD
Gastrointestinal (Artificial Intelligence and Machine Learning)
**Session SSE09** . . . . . . . . . . . . . . . . . . . . . . . . . . . N230B
Informatics (Artificial Intelligence: Triage, Screening, Quality)
**Session SSE14** . . . . . . . . . . . . . . . . . . . . . . . . . . . S406B
Physics (Deep Learning - X-Ray Scatter Correction and Denoising)
**Session SSE24** . . . . . . . . . . . . . . . . . . . . . . . . . . . S104A

**3:30–5:00 PM**
**Showcase Presentations**
RSNA AI Theater: RSNA Intracranial Hemorrhage Detection AI Challenge Winner Recognition Event
**Session AI30** . . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

**4:15–5:00 PM**
**Vendor Workshops**
Efficacy in Diagnosis with Tomosynthesis in Daily Practice (En Español): Presented by Hologic, Inc.
**Session VW71** . . . . . . . . . . . . . . . . . . . . . . . . . . . . South Building, Booth 5119

**4:30–6:00 PM**
**Educational Courses**
Special Interest Session: The Role of AI in Radiology in the Developing World?
**Session SPSI24** . . . . . . . . . . . . . . . . . . . . . . . . . . . . E450A
10:30 AM–12:00 PM
Al Hands-on Workshop
First-Hand Experience with 4 AI-powered Diagnosis Systems: Presented by 12 Sigma Technologies
Session HW31 . . . . . . . . . . . . . . . . . . . . . . . . . . . Al Showcase North Building Level 2, Booth 11536

10:30–11:45 AM
Vendor Workshops
Increase Confidence and Improve Workflow Efficiencies with High-Resolution Imaging Technology: Presented by Hologic, Inc.
Session VW72 . . . . . . . . . . . . . . . . . . . . . . . . . . . South Building, Booth 5119

11:00–11:20 AM
Showcase Presentations
RSNA AI Theater: AI in Clinical Cardiac MRI: Presented by Circle Cardiovascular Imaging
Session AI32 . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

11:30–11:50 AM
Showcase Presentations
3D + AV Theater: Experimental Applications of Desktop 3DP: Pioneering Research from the Field: Presented by Formlabs
Session 3D32 . . . . . . . . . . . . . . . . . . . . . . . . . . . 3D Printing and Advanced Visualization Theater, North Building

11:30 AM–12:00 PM
Vendor Workshops
Breaking Down Barriers in AI Development for Lesion Identification in Breast Care using Ultrasound: Presented by GE Healthcare
Session VW48 . . . . . . . . . . . . . . . . . . . . . . . . . . . South Building, Booth 5135

12:00–12:20 PM
Showcase Presentations
RSNA AI Theater: ScanDiags-Al-driven Decision Support from Musculoskeletal MRI: Presented by Balzano AI Engineers
Session AI34 . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

12:15–12:45 PM
Posters and Exhibits: Discussions
Artificial Intelligence Tuesday Poster Discussions
Session AIS-TUA . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Community, Learning Center

12:15–1:30 PM
Vendor Workshops
Clinical Perspective on 3D™ Guided Breast Biopsy and Real-Time Specimen Imaging: Presented by Hologic, Inc.
Session VW73 . . . . . . . . . . . . . . . . . . . . . . . . . . . South Building, Booth 5119

12:30–2:00 PM
Educational Courses
Hands-on Artificial Intelligence for Non-coders: Object Localization and Image Segmentation (Hands-on)
Course RCA33 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB

12:30–1:30 PM
Lunch and Learns
Lunch and Learn: Maturing Your Organization’s Capability to Develop and Utilize Heterogenous, Longitudinal, and Regulatory Grade Real-world Evidence: Presented by Life Image (RSVP-required)
Session LL21 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . S403B

12:45–1:15 PM
Posters and Exhibits: Discussions
Artificial Intelligence Tuesday Poster Discussions
Session AIS-TUB . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Community, Learning Center

1:00–2:30 PM
Educational Courses
RSNA AI Deep Learning Lab: Segmentation
Session SPAI32 . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase, North Building Level 2

1:00–1:20 PM
Showcase Presentations
RSNA AI Theater: Impacting Workflows on Routine MSK X-rays with the Implementation of Machine Learning Algorithms: Presented by Radiobotics
Session AI36 . . . . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2
1:30–1:50 PM  
**Showcase Presentations**  
RSNA AI Theater: Driving Revenue in Radiology with AI: Presented by Blackford  
Session AI37 . . . . . AI Showcase North Building Level 2

1:00–2:30 PM  
**AI Hands-on Workshop**  
Head-to-toe hands-on with AI and imaging biomarkers integrated in PACS. QUIBIM Precision: Presented by QUIBIM SL  
Session HW32 . . . . . . AI Showcase North Building Level 2, Booth 11536

2:00–3:30 PM  
**Corporate Symposium**  
AI: Delivering on the Promise: Presented by MaxQ AI  
Session CS35 . . . . . . . . . . . . . . . . . . . . . . . . . . . S102AB

2:00–2:20 PM  
**Showcase Presentations**  
RSNA AI Theater: XStream® aiCockpit™-Workflow Orchestration for AI: Presented by Fovia Ai  
Session AI38 . . . . . . . . . . . . . . . . . . . . . . . . AI Showcase North Building Level 2

2:00–3:15 PM  
**Vendor Workshops**  
A Revolution in Localization: Presented by Hologic, Inc.  
Session VW74 . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD

2:30–3:00 PM  
**Showcase Presentations**  
RSNA AI Theater: How RSNA is Fostering the AI Ecosystem: Presented by Safwan Halabi, MD  
Session AI39 . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD

2:30–4:00 PM  
**Educational Courses**  
Hands-on Artificial Intelligence for Non-coders: How is an Intracranial Hemorrhage Detection Algorithm Created? (Hands-on)  
Course RCA34 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB

3:00–3:30 PM  
**Educational Courses**  
RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)  
Session SPAI33 . . . . . . AI Showcase North Building Level 2

3:00–4:30 PM  
**Scientific Papers Sessions**  
Breast Imaging (Artificial Intelligence in Mammography)  
Session SSJ02 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB  
Chest (Artificial Intelligence/Machine Learning - Lung Malignancy)  
Session SSJ05 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB  
Physics (CAD/Machine Learning, Quantitative Imaging)  
Session SSJ23 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB

3:00–4:00 PM  
**Vendor Workshops**  
Implementing Contrast Enhanced Digital Mammography into your Practice: Presented by Hologic, Inc.  
Session VW75 . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD

3:30–5:00 PM  
**AI Hands-on Workshop**  
Deep Learning for MRI Interpretation on the Microsoft Azure ML Platform: Presented by Balzano AI Engineers  
Session HW33 . . . . . . . . . . . . . . . . . . . . . . . . . . . S102CD

4:30–6:00 PM  
**Educational Courses**  
Learning AI from the Experts: Becoming an AI Leader in Global Radiology (Without Needing a Computer Science Degree) (Sponsored by the RSNA Committee of International Radiology Education)  
Course RC416 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB  
Platforms and Infrastructures for Accelerated Discoveries in Machine Learning and Radiomics  
Course RC454 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB

Wednesday, Dec. 4, 2019

8:30–10:00 AM  
**Educational Courses**  
Machine Learning for Radiotherapy Applications  
Course RC522 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB  
Deep Learning in Radiology: How Do We Do It?  
Course RC554 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB
9:00–10:30 AM
Corporate Symposium
SOLVE: Intel is Driving Innovation for AI Inference at the Edge with Key Industry Partners: Presented by Intel Corporation
Session CS41 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S101AB

10:00–10:30 AM
Vendor Workshops
AI-based Decision Support for Diagnostic Breast Ultrasound: Presented by GE Healthcare
Session VW54 . . . . . . . . . . . . South Building, Booth 5135

10:30 AM–12:00 PM
Educational Courses
Preparing your Radiology Practice and IT Department for Big Data
Course RCC42 . . . . . . . . . . . . . . . . . . . . . . . . . . . . S406B
RSNA AI Deep Learning Lab: Segmentation
Session SPAI41 . . . . . . . . . . . . AI Showcase North Building Level 2

10:30–10:50 AM
Showcase Presentations
RSNA AI Theater: AI-assisted Breast Cancer Screening - Bringing the Winning Algorithm of the DREAM Challenge to Production: Presented by Therapixel
Session AI41 . . . . . . . . . . . . AI Showcase North Building Level 2

10:30–11:50 AM
AI Hands-on Workshop
GE Healthcare’s Edison Partner Program Hands-on Workshop: Presented by GE Healthcare
Session HW41 . . . . . . . . . . . . AI Showcase North Building Level 2, Booth 11536

10:30–11:45 AM
Vendor Workshops
Increase Confidence and Improve Workflow Efficiencies with High Resolution Imaging Technology: Presented by Hologic, Inc.
Session VW76 . . . . . . . . . . . . South Building, Booth 5119

11:00–11:20 AM
Showcase Presentations
RSNA AI Theater: Implementing AI in Clinical Practice - When Technology Hits Reality: Presented by Aidence
Session AI42 . . . . . . . . . . . . AI Showcase North Building Level 2

11:30–11:50 AM
Showcase Presentations
RSNA AI Theater: Hitting the Bull’s Eye in Neuroradiology: Unlocking Value from Workflow to Patient: Presented by icometrix
Session AI43 . . . . . . AI Showcase North Building Level 2

12:00–12:20 PM
Showcase Presentations
RSNA AI Theater: AI and the Everyday Radiologist: Embracing the Possibilities While Avoiding the Pitfalls: Presented by TeraRecon
Session AI44 . . . . . . AI Showcase North Building Level 2

12:15–12:45 PM
Posters and Exhibits: Discussions
Artificial Intelligence Wednesday Poster Discussions
Session AIS-WEA . . . . . . AI Community, Learning Center

12:15–1:30 PM
Vendor Workshops
Clinical Perspective on 3D™ Guided Breast Biopsy and Real-Time Specimen Imaging: Presented by Hologic, Inc.
Session VW77 . . . . . . . . . . . . South Building, Booth 5119

12:30–12:50 PM
Showcase Presentations
RSNA AI Theater: Making Ultrasound More Efficient with Real-time AI in the Clinic: Presented by Intelligent Ultrasound North America, Inc.
Session AI45 . . . . . . AI Showcase North Building Level 2

12:45–1:15 PM
Posters and Exhibits: Discussions
Artificial Intelligence Wednesday Poster Discussions
Session AIS-WEB . . . . . . AI Community, Learning Center

1:00–2:30 PM
Educational Courses
RSNA AI Deep Learning Lab: Generative Adversarial Networks (GANs)
Session SPAI42 . . AI Showcase, North Building, Level 2

1:00–1:20 PM
Showcase Presentations
RSNA AI Theater: Building Blocks of an AI Ecosystem: Presented by IBM Watson Health
Session AI46 . . . . . . AI Showcase North Building Level 2
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30–1:50 PM</td>
<td>Showcase Presentations</td>
<td>RSNA AI Theater: iCAD's Advancements in Mammography for Cancer Detection and Risk Prediction: Presented by iCAD, Inc.</td>
</tr>
<tr>
<td>2:00–2:20 PM</td>
<td>Showcase Presentations</td>
<td>RSNA AI Theater: Advances in AI Guided Scanning: Presented by HeartVista, Inc.</td>
</tr>
<tr>
<td>2:00–3:15 PM</td>
<td>Vendor Workshops</td>
<td>A Revolution in Localization: Presented by Hologic, Inc.</td>
</tr>
<tr>
<td>2:30–3:30 PM</td>
<td>Showcase Presentations</td>
<td>RSNA AI Theater: Deep Learning in Radiology: How Do We Do It? Q&amp;A/Follow-up: Presented by Curtis P. Langlotz, MD, PhD; Luciano M. Prevedello, MD, MPH</td>
</tr>
<tr>
<td>2:30–4:00 PM</td>
<td>Educational Courses</td>
<td>Clinical Decision Support: From Theory to Clinical Practice</td>
</tr>
<tr>
<td>3:00–4:30 PM</td>
<td>Educational Courses</td>
<td>RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro)</td>
</tr>
<tr>
<td>3:00–4:00 PM</td>
<td>Scientific Papers Sessions</td>
<td>Breast Imaging (Radiomics)</td>
</tr>
<tr>
<td>7:15–8:15 AM</td>
<td>Educational Courses</td>
<td>Controversy Session: AI: Is it Ready for Your Practice</td>
</tr>
<tr>
<td>8:30–10:00 AM</td>
<td>Educational Courses</td>
<td>Innovations in Medical Imaging Physics with Deep Learning</td>
</tr>
<tr>
<td>8:30 AM–12:00 PM</td>
<td>Educational Courses</td>
<td>Machine Learning and Radiomics in MRI</td>
</tr>
<tr>
<td>8:30 AM–12:00 PM</td>
<td>Scientific Papers Sessions</td>
<td>Deep Learning &amp; Machine Intelligence in Radiology</td>
</tr>
<tr>
<td>10:30 AM–12:00 PM</td>
<td>Educational Courses</td>
<td>Artificial Intelligence: Beyond Interpretive Considerations</td>
</tr>
<tr>
<td>Thursday, Dec. 5, 2019</td>
<td>Vendor Workshops</td>
<td>AI-based Decision Support for Diagnostic Breast Ultrasound: Presented by GE Healthcare</td>
</tr>
</tbody>
</table>
11:00–11:20 AM
Showcase Presentations
RSNA AI Theater: Big Data and Its Impact on Stroke Imaging: Presented by Cercare Medical
Session AI52 . . . . . . AI Showcase North Building Level 2

11:30–11:50 AM
Showcase Presentations
RSNA AI Theater: Comprehensive Bioinformatics Platform for AI Research: Presented by Flywheel
Session AI53 . . . . . . AI Showcase North Building Level 2

12:00–12:20 PM
Showcase Presentations
RSNA AI Theater: ED Radiology Exam Wait Time Prediction: Presented by Philips Healthcare
Session AI54 . . . . . . AI Showcase, North Building, Level 2

12:15–12:45 PM
Posters and Exhibits: Discussions
Artificial Intelligence Thursday Poster Discussions
Session AIS-THA . . . . . . AI Community, Learning Center

12:30–12:50 PM
Showcase Presentations
RSNA AI Theater: AI-Powered Volumetrics to Improve Radiologist Efficiency and Accuracy: Presented by CorTechs Labs
Session AI55 . . . . . . AI Showcase, North Building, Level 2

12:45–1:15 PM
Posters and Exhibits: Discussions
Artificial Intelligence Thursday Poster Discussions
Session AIS-THB . . . . . . AI Community, Learning Center

1:00–2:30 PM
Educational Courses
RSNA AI Deep Learning Lab: Segmentation
Session SPAI52 . . . . . . AI Showcase North Building Level 2

1:00–1:20 PM
Showcase Presentations
RSNA AI Theater: Collaborative Medical AI Development: Presented by CuraCloud
Session AI56 . . . . . . AI Showcase North Building Level 2

1:30–1:50 PM
Showcase Presentations
RSNA AI Theater: mint Lesion™: Seeding Power Food for AI - How Every Radiological Read Can Contribute to an AI-powered Future: Presented by Mint Medical
Session AI57 . . . . . . AI Showcase North Building Level 2

4:30–6:00 PM
Educational Courses
Deep Learning-An Imaging Roadmap
Course RCC55 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E450A

Friday, Dec. 6, 2019

8:30–10:00 AM
Educational Courses
AI, Radiomics, Text Mining, and More: 2019's Key Advances in Imaging Informatics
Course RC853 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E450A

10:30 AM–12:00 PM
Scientific Papers Sessions
Chest (Artificial Intelligence - Machine Learning)
Session SST02 . . . . . . . . . . . . . . . . . . . . . . . . . . . E451A
Musculoskeletal (Spine)
Session SST05 . . . . . . . . . . . . . . . . . . . . . . . . . . . E450B
Science Session with Keynote: Pediatrics (Artificial Intelligence and Machine Learning)
Session SST08 . . . . . . . . . . . . . . . . . . . . . . . . . . . E261

Posters and Exhibits Discussions
(CME is available when the author is present for discussion during the lunch period)

Sunday, Dec. 1, 2019

12:30–1:00 PM
Scientific Posters
Comparative Study on the Efficacy of Deep-Learning-Based Detection of Pulmonary Nodules of Different Sizes between Single-Source and Dual-Source Mode
AI224-SD-SUA1 . . . . . . . . . . . . . . . . . . . . . . . . . Station #1
CT-Derived Radiogenomic Signatures Predicting BRAF/KRAS Mutations and Overall Survival in Primary Colorectal Carcinoma Patients
GI378-SD-SUA5 . . . . . . . . . . . . . . . . . . . . . . . . . Station #5
Deep Learning with Multiclass Deep Convolutional Neural Networks to Detect Prostate Cancer on Multiparametric MRI Images Using a Multi-Institution Patient Cohort
AI267-SD-SUA3 . . . . . . . . . . . . . . . . . . . . . . . . . Station #3
Evaluation of an Artificial Intelligence-Based Double Read System in Capturing Pulmonary Nodule Discrepancy in CT Studies  
IN220-SD-SUA6 . . . . . . . . . . . . . . . . . . . . . . . Station #6

Feasibility of Nakagami Parametric Imaging for Texture Analysis of Ultrasound Images  
IN231-SD-SUA2 . . . . . . . . . . . . . . . . . . . . . . . Station #2

Optimizing Distributed Deep Learning Methods for Medical Image Data Heterogeneity Across Institutions  
AI237-SD-SUA2 . . . . . . . . . . . . . . . . . . . . . . . Station #2

12:30–1:00 PM  
Education Exhibits  
A Practical Guide to Natural Language Processing for Radiology  
AI139-ED-SUA4 . . . . . . . . . . . . . . . . . . . . . . . Station #4

An Educational Approach to Dynamic Contrast-Enhanced MRI Techniques for Arthritis Assessment  
MK293-ED-SUA8 . . . . . . . . . . . . . . . . . . . . . . . Station #8

Metabolic and Endocrine Bone Disorders and Conditions: A Current, Comprehensive Review  
MK292-ED-SUA7 . . . . . . . . . . . . . . . . . . . . . . . Station #7

1:00–1:30 PM  
Scientific Posters  
A Proper Statistical Method for Comparing Diagnostic Performances Between Stand-alone Artificial Intelligence System and Multiple Readings from Multi-reader Diagnostic Performance Study  
IN219-SD-SUB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

Combined Use of Automated Volumetric Analysis of Breast Cancer Vascularization, Machine Learning and MRI: A Perfect Trio to Predict Survival Outcome in Breast Cancer Patients?  
BR221-SD-SUB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

Evaluation of Outcomes Following Pulmonary Artery Stenting in Fibrosing Mediastinitis  
VI203-SD-SUB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

Fully Automatic Deep-Learning System to Select L3 Slice and Measure Abdominal Muscle Area on CT  
AI217-SD-SUB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

Getting AI Ready for Deployment: Tuning Algorithms to Specific Sites Using a Single Chest X-Ray Image  
AI261-SD-SUB2 . . . . . . . . . . . . . . . . . . . . . . . Station #2

Implementation of a Clinical Decision Support System for Alerting the Physician to Repeat Imaging Examination Orders  
IN268-SD-SUB4 . . . . . . . . . . . . . . . . . . . . . . . Station #4

Repeatability of Machine Learning Classification of Prostate Cancer using Diffusion Weighted Imaging: Short-Term Repeatability Study of 112 Men Who Underwent Two Prostate MR Examinations Before Prostatectomy  
AI209-SD-SUB3 . . . . . . . . . . . . . . . . . . . . . . . Station #3

The Value of Radiomics in the Quality Control of Low-dose CT Examinations of Solid Pulmonary Nodules – A Phantom Study  
IN276-SD-SUB5 . . . . . . . . . . . . . . . . . . . . . . . Station #5

1:00–1:30 PM  
Education Exhibits  
Content-Based Image Retrieval for Searching Similar Chest CT with Diffuse Interstitial Lung Disease and Chronic Obstructive Lung Disease with Quantitative and CNN Features  
AI003-EC-SUB . . . . . . . . . . . . . . . . . . . . . . . Custom Application Computer Demonstration

Musculoskeletal Manifestations of HIV Infection: A Pictorial Review  
MK298-ED-SUB6 . . . . . . . . . . . . . . . . . . . . . . . Station #6

Monday, Dec. 2, 2019  
12:15–12:45 PM  
Scientific Posters  
Artificial Intelligence-Assisted Breast Cancer Risk Assessment  
AI258-SD-MOA2 . . . . . . . . . . . . . . . . . . . . . . . Station #2

Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks  
AI273-SD-MOA3 . . . . . . . . . . . . . . . . . . . . . . . Station #3

Automated Volumetric Assessment of Multiple Sclerosis Disease Burden and Activity with Artificial Neural Networks  
NR396-SD-MOA6 . . . . . . . . . . . . . . . . . . . . . . . Station #6

Deep-Learning Reconstruction Improves Quality of Clinical Brain and Spine MR Imaging  
NR370-SD-MOA1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

Holographic Light Field Displays for 3D viewing  
IN271-SD-MOA4 . . . . . . . . . . . . . . . . . . . . . . . Station #4

Identifying Areas for Operational Improvement and Growth Opportunities in IR Workflow Using Workflow Modeling, Simulation and Optimization Techniques  
IN248-SD-MOA5 . . . . . . . . . . . . . . . . . . . . . . . Station #5

Impact of Image Resolution on Deep-Learning Performance for Pneumothorax Identification  
AI241-SD-MOA1 . . . . . . . . . . . . . . . . . . . . . . . Station #1
**12:45–1:15 PM**

**Scientific Posters**
- Automatic 3D Segmentation of Breast MR T1 Images Using 3D Convolutional Neural Network  
  BR231-SD-MOB2  . . . . . . . . . . . . . . . . . . . . . . . . . Station #2
- Automatic Detection of Critical Findings in Brain MRI Exams Using Residual Convolutional Neural Networks  
  AI255-SD-MOB3  . . . . . . . . . . . . . . . . . . . . . . . . . Station #3
- CT Image Retrieval Based on Morphological Similarities in Diffuse Lung Diseases Using a Deep Convolutional Neural Network  
  AI211-SD-MOB1  . . . . . . . . . . . . . . . . . . . . . . . . . Station #1
- Deep Learning-Assisted Diagnosis of Atypical Hepatocellular Carcinoma (HCC) on Contrast-Enhanced MR Imaging: Differentiating Pathologically Proven HCC from Non-HCC Liver Lesions  
  GI374-SD-MOB7  . . . . . . . . . . . . . . . . . . . . . . . . . Station #7
- Impact of Native and Artificially Improved AI-Based CADx on Breast US Interpretation  
  BR254-SD-MOB4  . . . . . . . . . . . . . . . . . . . . . . . . . Station #4
- Implementation of An Onsite Medical Display Device Quality Control Program  
  IN229-SD-MOB3  . . . . . . . . . . . . . . . . . . . . . . . . . Station #3
- The Effect of Artificial Intelligence-Based Intracranial Hemorrhage Detection on Study Turnaround Time for Emergent Care Non-Contrast Head CT: A Prospective Randomized Clinical Trial  
  NR402-SD-MOB6  . . . . . . . . . . . . . . . . . . . . . . . . . Station #6
- Transfer Learning Approach to Generalize a State-of-the-Art Prostate Segmentation Model  
  AI257-SD-MOB2  . . . . . . . . . . . . . . . . . . . . . . . . . Station #2

**12:45–1:15 PM**

**Education Exhibits**
- A Conversational Natural Language Processing (NLP) Model used to Scale Quality Improvement (QI) Processes for Tracking Radiologist Follow-Up Recommendations  
  AI023-EB-MOB  . . . . . . . . . . . . . . . . . . . . . . . . . Hardcopy Backboard
- Dual Output V-Net CNN: A Virtual Iodinated Contrast Media Injection in Chest CT Toward a New Cardiac Risk Assessment  
  AI022-EB-MOB  . . . . . . . . . . . . . . . . . . . . . . . . . Hardcopy Backboard

---

**Tuesday, Dec. 3, 2019**

**12:15–12:45 PM**

**Scientific Posters**
- AI Radiomics in a Monogenic Autoimmune Disease: Deep Learning of Routine Radiologist Annotations Correlated with Pathologically Verified Lung Findings  
  IN212-SD-TUA1  . . . . . . . . . . . . . . . . . . . . . . . . . Station #1
  BR268-SD-TUA7  . . . . . . . . . . . . . . . . . . . . . . . . . Station #7
- CT Attenuation Characteristics of 3D Printed Materials  
  IN232-SD-TUA5  . . . . . . . . . . . . . . . . . . . . . . . . . Station #5
- Fully Automated Open-Source Critical Findings Notification System  
  IN214-SD-TUA4  . . . . . . . . . . . . . . . . . . . . . . . . . Station #4
- Impact of Dynamic Intima Motion on Renal Injury in Patients with Type B Acute Aortic Dissection: Quantitative Assessment with Dose-Regulated Retrospectively ECG-gated CT Angiography in Dual-Source CT  
  VI254-SD-TUA6  . . . . . . . . . . . . . . . . . . . . . . . . . Station #6
- Independent Validation of Diagnostic Machine Learning Radiomics on a Large Clinical Dataset of Consecutive Breast MRIs  
  BR235-SD-TUA3  . . . . . . . . . . . . . . . . . . . . . . . . . Station #3
- Perceived Realism of Generative Adversarial Network-Derived Synthetic Mammograms  
  BR266-SD-TUA5  . . . . . . . . . . . . . . . . . . . . . . . . . Station #5
- Significance of 3D Cube Flair with Compressive Sensing in the Diagnosis of Subcortical Microlesions  
  NR422-SD-TUA8  . . . . . . . . . . . . . . . . . . . . . . . . . Station #8
- Weakly-Supervised Deep-Learning Modeling on Sub-Volumes for Pre-Assessment of Digital Breast Tomosynthesis  
  BR267-SD-TUA6  . . . . . . . . . . . . . . . . . . . . . . . . . Station #6

**12:15–12:45 PM**

**Education Exhibits**
- Computer-Aided Assessment of Catheters and Tubes on Radiographs: How Good is Artificial Intelligence for Assessment?  
  AI148-ED-TUA3  . . . . . . . . . . . . . . . . . . . . . . . . . Station #3
- Generative Adversarial Networks (GANs): A Primer for Radiologists  
  AI145-ED-TUA2  . . . . . . . . . . . . . . . . . . . . . . . . . Station #2
- Practical Guide to Natural Language Processing Research in Radiology  
  AI141-ED-TUA1  . . . . . . . . . . . . . . . . . . . . . . . . . Station #1
12:45–1:15 PM
Scientific Posters
Automatic Segmentation of 3D Hip Ultrasound for Detection of Hip Dysplasia
AI205-SD-TUB2 . . . . . . . . . . . . . . . . . . . . . . . . Station #2
Convolutional Neural Network for Respiratory Motion Artifact Reduction in Multiphasic Liver MRI: Network Architecture and Clinical Evaluation
AI226-SD-TUB1 . . . . . . . . . . . . . . . . . . . . . . . . Station #1
Developing an Artificial Intelligence Algorithm Pipeline for Predicting Malignancy Risk for Mammographic Microcalcifications Leveraging the ACR Data Science Institute (DSI) Use Case Library
BR271-SD-TUB6 . . . . . . . . . . . . . . . . . . . . . . . . Station #6
Inter-operator Variability in Diffusion Tensor Imaging Tractography for Tumor Resection Surgical Planning
IN260-SD-TUB3 . . . . . . . . . . . . . . . . . . . . . . . . Station #1
Paging Dr. Robot: A Chat Bot with a Machine Learning Algorithm for Predicting Pediatric Bone Age Through Hand-Wrist X-Rays
AI225-SD-TUB3 . . . . . . . . . . . . . . . . . . . . . . . . Station #3
Radiation Dose Reduction in Digital Mammography by Image Reconstruction Using Deep Learning Algorithm: Clinical Evaluation
BR237-SD-TUB2 . . . . . . . . . . . . . . . . . . . . . . . . Station #2
Radio-Proteo-Genomic Differences in IDH1 Mutant versus Wild-Type Gliomas
NR426-SD-TUB6 . . . . . . . . . . . . . . . . . . . . . . . . Station #6
Renal Parenchyma Segmentation using the Combined 2D and 3D Segmentation Networks for Analysis of Volume Changes of Contralateral Hypertrophy after Robot-assisted Partial Nephrectomy in Abdominal CT Images
IN213-SD-TUB6 . . . . . . . . . . . . . . . . . . . . . . . . Station #6
ROSA Robot Rehearsal: Utilizing 3D Printing to Facilitate the Integration of Robotic Stereotactic Assistance (ROSA) in Neurosurgery
IN249-SD-TUB2 . . . . . . . . . . . . . . . . . . . . . . . . Station #2
Visceral Fat Quantification in Abdominal Computed Tomography Using Deep Learning
IN238-SD-TUB1 . . . . . . . . . . . . . . . . . . . . . . . . Station #1
Whole-Breast Malignancy Rating for MRI Using Deep Learning
BR270-SD-TUB5 . . . . . . . . . . . . . . . . . . . . . . . . Station #5

12:45–1:15 PM
Education Exhibits
A Filter-Level Pruning Method for More Efficient Deep Learning Inference on Medical Images
AI024-EB-TUB . . . . . . . . . . . . . . . . . Hardcopy Backboard

Wednesday, Dec. 4, 2019
12:15–12:45 PM
Scientific Posters
AI221-SD-WEA1 . . . . . . . . . . . . . . . . . . . . . . . . Station #1
An Interpretable Generative Model for Chest X-Ray Decomposition via Synthesizing Radio-Realistic Normal Chest X-Rays and Separating Abnormalities
AI269-SD-WEA4 . . . . . . . . . . . . . . . . . . . . . . . . Station #4
Automatic Prediction of Optimal MRI Protocols Using Encoder-Decoder Model
AI201-SD-WEA2 . . . . . . . . . . . . . . . . . . . . . . . . Station #2
Collaborative Robotics for Image-Guided Interventions in a Standardized Network for Clinical Environments
IN218-SD-WEA6 . . . . . . . . . . . . . . . . . . . . . . . . Station #6
Early Experience Implementing a Web-based Interface to Annotate Breast Imaging Reports with Patent-oriented Definitions
IN216-SD-WEA2 . . . . . . . . . . . . . . . . . . . . . . . . Station #2
Engaging High-Risk Patients to Attend MRI Appointments Using a Scripted Phone Call: A Pilot Trial
AI207-SD-WEA3 . . . . . . . . . . . . . . . . . . . . . . . . Station #3
Evaluation of Technical Success and Complication Rates Following Endovascular Thrombolysis Interventions
VI263-SD-WEA6 . . . . . . . . . . . . . . . . . . . . . . . . Station #6
Improving Communication between Radiologists, Pathologists, and Urologists by using a PI-RADS Structured Reporting System
IN235-SD-WEA3 . . . . . . . . . . . . . . . . . . . . . . . . Station #3
Paradigm Shift in Diagnostic Radiology Training using Simulation Workshops: Intracranial Malignancies
IN247-SD-WEA4 . . . . . . . . . . . . . . . . . . . . . . . . Station #4
Using Generative Adversarial Networks (GANs) to Synthesize and Remove Lesions in X-Ray Mammograms Improves AI-Based Cancer Detection
BR241-SD-WEA3 . . . . . . . . . . . . . . . . . . . . . . . . Station #3

12:15–12:45 PM
Education Exhibits
Continuous Improvement of LSTM Deep Learning NLP Algorithm to Predict Post-Procedure Exams for Worklist Prioritization Using API for Retraining and Redeployment
AI006-EC-WEA . . . . . . . . . . . . . . . . . Custom Application Computer Demonstration
Creating Annotated Image Datasets to Support Deep Learning Training and Validation
AI005-EC-WEA . . . . . . . . . . . . . . . . . Custom Application
Knowledge Distillation for U-Net on Medical Images
AI025-EB-WEA . . . . . . . . . . . . . . . . . Hardcopy Backboard
Unsupervised Anomaly Detection on Medical Images with Generative Adversarial Networks: Strengths and Weaknesses
AI012-EB-WEA . . . . . . . . . . . . . . . . . Hardcopy Backboard

12:45–1:15 PM
Scientific Posters
Association Rule Learning May Estimate Individual Risk for Contrast-Induced Acute Kidney Injury
AI227-SD-WEB2 . . . . . . . . . . . . . . . . . Station #2
Automated Classification of Arteriolar Sclerosis Pathology and Prediction of Cognitive Decline Based on MRI Images
NR435-SD-WEB4 . . . . . . . . . . . . . . . . . Station #4
Can Computational Fluid Dynamics Predict the Progression of Visceral Artery Aneurysms?
VI216-SD-WEB2 . . . . . . . . . . . . . . . . . Station #2
Digital Variance Angiography as a Risk Reduction Measure in Peripheral Endovascular Interventions
VI271-SD-WEB5 . . . . . . . . . . . . . . . . . Station #5
Disentangled Feature Representation of Pulmonary Diseases in the Latent Space of Progressive Growing of Generative Adversarial Networks in Chest PA X-Ray Images
AI233-SD-WEB4 . . . . . . . . . . . . . . . . . Station #4
Mobile Deployment of a Convolutional Neural Network Which Identifies Pacemakers and Implantable Defibrillators on Chest Radiographs
AI230-SD-WEB1 . . . . . . . . . . . . . . . . . Station #1
Radiogenomic Analysis of Glioblastoma on Pre-Treatment Gd-T1w MRI Reveals Gender-Specific Imaging Features and Signaling Pathways
NR386-SD-WEB2 . . . . . . . . . . . . . . . . . Station #2
Sub-Region based Radiomics Analysis for Survival Prediction in Oesophageal Tumors Treated by Definitive Concurrent Chemoradiotherapy
AI242-SD-WEB3 . . . . . . . . . . . . . . . . . Station #3
Tofu: For Stir-Fry and Ultrasound Procedural Training
IN206-SD-WEB3 . . . . . . . . . . . . . . . . . Station #3

12:45–1:15 PM
Education Exhibits
Learning-Based MR-CT Registration for Guiding Thermal Ablation of Liver Tumors
AI007-EC-WEB . . . . . . . . . . . . . . . . . Custom Application
Not All ‘Green’ is Tophi - Focusing on the False Negatives and False Positives of DECT for Diagnosis of Gout
MK319-ED-WEB11 . . . . . . . . . . . . . . . . . Station #11
RIL-Contour: A Collaborative Medical Imaging Dataset Annotation Tool Designed to Accelerate Dataset Annotation for and With Deep Learning
AI008-EC-WEB . . . . . . . . . . . . . . . . . Custom Application

Thursday, Dec. 5, 2019
12:15–12:45 PM
Scientific Posters
A Machine Learning Approach to Radiogenomics of Breast Cancer to Predict Prognostic Biomarkers Using Low-Dose Perfusion Breast CT
BR247-SD-THA3 . . . . . . . . . . . . . . . . . . . . . . . Station #3
A Study on the Computer-Assisted Diagnosis with Deep Learning Architecture (CADDELAC) for the Detection of Brain Metastases
NR390-SD-THA3 . . . . . . . . . . . . . . . . . . . . . . . Station #3
An Artificial Intelligence Solution for Detecting Significant Pneumothorax on Chest Radiographs: Experience on a Real-World Dataset and Potential Impact on Turnaround Time at an Academic Tertiary Medical Center
AI239-SD-THA2 . . . . . . . . . . . . . . . . . . . . . . . Station #2
Determining Brain Age Using Machine Learning Combined with Automated Brain Segmentation and PET Imaging In Normal, Alzheimer’s Disease and Mild Cognitive Impairment Subjects
AI262-SD-THA1 . . . . . . . . . . . . . . . . . . . . . . . Station #1
Doppler-Based Renal Perfusion Variations After Fenestrated/ Branched Endovascular Repair and Post-Operative Renal Function Outcomes
VI219-SD-THA2 . . . . . . . . . . . . . . . . . . . . . . . Station #2
Performance Evaluation of the ABC/2 Method and Deep Learning-Assisted Algorithm in Measuring the Volume of Intraparenchymal Hematoma
AI277-SD-THA3 . . . . . . . . . . . . . . . . . . . . . . . Station #3
Segmentation and Measurement of Ventricular and Cranial Vault Volumes in 15,223 Subjects Using Artificial Intelligence
NR414-SD-THA6 . . . . . . . . . . . . . . . . . . . . . . . Station #6
Therapeutic Pancreatic Cancer Tumor Analysis in CT Images using Global Atlas, Multi-Resolution Convolutional Neural Network and Wavelet Volumetric Shape Extraction
IN259-SD-THA2 .......................... Station #2

**12:15–12:45 PM**

**Education Exhibits**
ePAD-AI: A Platform for Standards-Based Collaborative AI Application Development in Medical Imaging
AI010-EC-THA .......................... Custom Application Computer Demonstration

Self Help: Creating Research Opportunities in a Hybrid Training Setting
HP128-ED-THA4 .......................... Station #4

**12:45–1:15 PM**

**Scientific Posters**
A Federated Convolutional Denoising Autoencoder for MRI Applications
AI200-SD-THB1 .......................... Station #1

Artificial Intelligence-Based Cochlea Segmentation and Analysis on Clinical High-Resolution CT Images: Towards Automatic Patient-Specific Measurements for Surgical Planning
NR416-SD-THB5 .......................... Station #5

Machine Learning Model Generalizes Across Manufacturers and Clinical Sites
BR250-SD-THB3 .......................... Station #3

Medical Federated Deep Learning (MedFDL) for Automatic Body Part Labeling of CT Scout Images
AI250-SD-THB2 .......................... Station #2

Preoperative Prediction of Regional Lymph Node Metastasis of Breast Cancer by Radiomics of DCE-MRI with an Ensemble of Deep Learning Models
BR263-SD-THB4 .......................... Station #4

Vulnerability of Deep Learning based Computer-Aided Diagnosis: Experimental Adversarial Attack Against CT Lung Nodule Detection Model
AI202-SD-THB3 .......................... Station #3

**12:45–1:15 PM**

**Education Exhibits**
Common-Space-Learning from Multi-Modality for Missing MRI Synthesis and Glioma Grading
AI009-EC-THB .......................... Custom Application Computer Demonstration

Generative Adversarial Network Models for Prediction of Survival in Patients with Interstitial Lung Diseases
AI002-EC-THB .......................... Custom Application Computer Demonstration

**Education Exhibits**

<table>
<thead>
<tr>
<th>SPACE NO.</th>
<th>EXHIBIT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AI001-EC-X</td>
<td>Virtual Reality of Self-Supervised Generative Adversarial Learning in Electronic Cleansing for CT Colonography</td>
</tr>
<tr>
<td>AI004-EC-X</td>
<td>A Radiologist’s Guide to Deep Learning and Artificial Intelligence: What You Need to Know for the Road Ahead</td>
</tr>
<tr>
<td>AI011-EB-X</td>
<td>Metrics for Artificial Intelligence Algorithms</td>
</tr>
<tr>
<td>AI013-EB-X</td>
<td>Overview of the Content-Based Image Retrieval (CBIR): Technical Advancement and Challenges in Medical Use</td>
</tr>
<tr>
<td>AI014-EB-X</td>
<td>From Images to Analysis, Segmentation, Classification and Radiomics: pyOsirix-Centered Workflow Solutions</td>
</tr>
<tr>
<td>AI015-EB-X</td>
<td>Practical Guide for Deployment of AI Solutions in Clinical Environment: How Did We Do It?</td>
</tr>
<tr>
<td>AI016-EB-X</td>
<td>How to Lie with Statistics: Things to Keep in Mind While Evaluating a Deep Learning Claim</td>
</tr>
<tr>
<td>AI017-EB-X</td>
<td>Building Robust ML Models Using Federated Learning: The Future of AI Deployment</td>
</tr>
<tr>
<td>AI018-EB-X</td>
<td>Why One Algorithm May Not Fit All: What Radiologists Need to Know About How Selection Bias May Affect Machine Learning Performance</td>
</tr>
<tr>
<td>AI019-ED-X</td>
<td>Practical Approaches to Managing Class Imbalance in Deep Learning on Radiological Data</td>
</tr>
<tr>
<td>AI020-EB-X</td>
<td>Generative Adversarial Networks Showcase: Their Mechanisms and Radiological Applications</td>
</tr>
<tr>
<td>AI021-EB-X</td>
<td>How to Improve the Quality of Organ Segmentation on CT Images and Where Could It Be Applicable?</td>
</tr>
<tr>
<td>AI102-ED-X</td>
<td>Dissecting the Artificial Intelligence Black Box: Why, When, and How</td>
</tr>
<tr>
<td>AI103-ED-X</td>
<td>How to Use Data Augmentation to Improve Deep Learning Model Performance</td>
</tr>
<tr>
<td>AI106-ED-X</td>
<td>An Intuitive Explanation of Radiomics</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AI108-ED-X</td>
<td>Neural Networks in Deep Learning: A Simplified Explanation for Radiologists</td>
</tr>
<tr>
<td>AI109-ED-X</td>
<td>A Quick Start to Deep Learning for Radiologists</td>
</tr>
<tr>
<td>AI110-ED-X</td>
<td>Convolutional Neural Networks: Fundamental Theory and Guided Implementation for the Radiologist Using Google Collaboratory</td>
</tr>
<tr>
<td>AI111-ED-X</td>
<td>Convolutional Neural Networks: Challenges and Solutions</td>
</tr>
<tr>
<td>AI114-ED-X</td>
<td>Anatomy of a Deep Learning Project for Breast Cancer Prognosis Prediction: From Collecting Data to Building a Pipeline</td>
</tr>
<tr>
<td>AI115-ED-X</td>
<td>Clinical and Machine Learning Statistics: What the Radiologist Needs to Know</td>
</tr>
<tr>
<td>AI116-ED-X</td>
<td>Artificial Intelligence in Radiology: An Animated Interactive 'How We Do It' Guide for Radiology Residents</td>
</tr>
<tr>
<td>AI118-ED-X</td>
<td>Development of Accuracy Guarantee System using Deep Learning in Radiography</td>
</tr>
<tr>
<td>AI119-ED-X</td>
<td>Radiomics in Clinical Trials - The Rationale, Current Practices, and Future Considerations</td>
</tr>
<tr>
<td>AI129-ED-X</td>
<td>The Subtle Art of Accurate Natural Language Processing for Radiology Report Mining</td>
</tr>
<tr>
<td>HP104-ED-X</td>
<td>Mentorship, Sponsorship, and Coaching: Key Faculty and Resident Development Concepts and a Guide for Successful Implementation in the Radiology Department</td>
</tr>
<tr>
<td>HP118-ED-X</td>
<td>Optimizing the Mentor-Mentee Relationship: A Guide for Mentees</td>
</tr>
<tr>
<td>MK001-EB-X</td>
<td>Infected or Not? And by What? Challenging Cases of Musculoskeletal Infection Which Were Met During the Multidisciplinary Care Approach</td>
</tr>
<tr>
<td>MK100-ED-X</td>
<td>Differentiation of Hand Small Joints Arthropathy in Patients with Rheumatoid Arthritis and Psoriatic Arthritis: Multimodality Imaging Characteristics</td>
</tr>
<tr>
<td>MK105-ED-X</td>
<td>Osteomyelitis - A Common Disease with Many Faces</td>
</tr>
<tr>
<td>MK112-ED-X</td>
<td>Synovial Disorders: A Radiographic Review</td>
</tr>
<tr>
<td>MK114-ED-X</td>
<td>DISH, Ankylosing Spondylitis, and Spondyloarthritis: What's the Difference?</td>
</tr>
<tr>
<td>MK125-ED-X</td>
<td>Stepwise Approach to Arthritis Based on Imaging</td>
</tr>
<tr>
<td>MK129-ED-X</td>
<td>Musculoskeletal System Involvement by Opportunistic Infections: More Common than Recognized</td>
</tr>
<tr>
<td>MK131-ED-X</td>
<td>Imaging Findings of Osteomyelitis: Update on Diagnosis</td>
</tr>
<tr>
<td>MK132-ED-X</td>
<td>Conventional Radiology in Peripheral Arthritis: What the Radiologist Needs to Know</td>
</tr>
<tr>
<td>MK138-ED-X</td>
<td>Imaging Findings of Septic Arthritis: Update on Diagnosis</td>
</tr>
<tr>
<td>MK161-ED-X</td>
<td>Imaging Features of Inflammatory Disorders of the Spine: Update on Diagnosis</td>
</tr>
<tr>
<td>MK169-ED-X</td>
<td>Yes, I Can Look Alike: Extra-Axial Tuberculous Arthropathies and Its Mimics</td>
</tr>
<tr>
<td>MK187-ED-X</td>
<td>A Practical Guide to Interpret MRI Features of New Bone Formation in Axial Spondyloarthritis</td>
</tr>
<tr>
<td>MK215-ED-X</td>
<td>Imaging of Systemic Lupus Erythematosus: Musculoskeletal Manifestations</td>
</tr>
<tr>
<td>MK217-ED-X</td>
<td>Imaging Features of Chronic Kidney Disease Mineral and Bone Disorders (CKD-MBD)</td>
</tr>
<tr>
<td>MK228-ED-X</td>
<td>POPP Lesions: From Unrecognized to an Emerging Popping-up Entity in Autoimmune Arthritis</td>
</tr>
<tr>
<td>MK232-ED-X</td>
<td>Musculoskeletal Tuberculosis: A Practical Guide for Residents</td>
</tr>
<tr>
<td>MK235-ED-X</td>
<td>Chronic Nonbacterial Osteomyelitis: The Role of Whole-Body MRI</td>
</tr>
<tr>
<td>MK250-ED-X</td>
<td>Death is Not in the Air: Imaging Review of Necrotizing Fasciitis (NF)</td>
</tr>
<tr>
<td>MK256-ED-X</td>
<td>Skeletal Involvement in Gaucher’s Disease: From Macrophage to Bone</td>
</tr>
<tr>
<td>MK257-ED-X</td>
<td>Imaging the 'Forgotten' Sternoclavicular Joint: Pathology, Pitfalls, and Pearls</td>
</tr>
<tr>
<td>MK259-ED-X</td>
<td>A Comprehensive Review of Diabetic Foot Complications</td>
</tr>
</tbody>
</table>
Demonstrations

NCI Crowds Cure Cancer: Help Annotate Data from the Cancer Imaging Archive
Session AI050 . . . . . . . . . AI Community, Learning Center
Session AI029 . . . . . . . . . AI Community, Learning Center
## AI Showcase Exibitor Directory

**Sponsored by:**

<table>
<thead>
<tr>
<th>Company</th>
<th>Booth No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 Sigma Technologies</td>
<td>11326</td>
</tr>
<tr>
<td>A.I. Analysis Inc</td>
<td>11528</td>
</tr>
<tr>
<td>Advantis Medical Imaging</td>
<td>11337F</td>
</tr>
<tr>
<td>AI Hands on Workshop</td>
<td>11536</td>
</tr>
<tr>
<td>AI Metrics</td>
<td>11337B</td>
</tr>
<tr>
<td>Aidence</td>
<td>10103</td>
</tr>
<tr>
<td>Aidoc Medical Ltd</td>
<td>10305</td>
</tr>
<tr>
<td>AIRS MEDICAL</td>
<td>11712</td>
</tr>
<tr>
<td>AmCad BioMed</td>
<td>11243</td>
</tr>
<tr>
<td>American College of Radiology</td>
<td>11122</td>
</tr>
<tr>
<td>Anymedi Inc.</td>
<td>10514A</td>
</tr>
<tr>
<td>ARTERYS</td>
<td>10918</td>
</tr>
<tr>
<td>AWS</td>
<td>10942</td>
</tr>
<tr>
<td>Balzano ScanDiags AI Engineers</td>
<td>10742</td>
</tr>
<tr>
<td>Bayer</td>
<td>11313D</td>
</tr>
<tr>
<td>BEIJING DEEPWISE &amp; LEAGUE OF PHD TECHNOLOGY CO LTD</td>
<td>10424</td>
</tr>
<tr>
<td>BioMind</td>
<td>11401A</td>
</tr>
<tr>
<td>Blackford Analysis</td>
<td>10521</td>
</tr>
<tr>
<td>Bold Brain Ventures</td>
<td>10842</td>
</tr>
<tr>
<td>Bot Image by ScanMEd</td>
<td>10537D</td>
</tr>
<tr>
<td>Botkin.AI</td>
<td>11146</td>
</tr>
<tr>
<td>Caide Systems Inc</td>
<td>10419D</td>
</tr>
<tr>
<td>Canon USA Inc</td>
<td>10537C</td>
</tr>
<tr>
<td>Care Mentor AI</td>
<td>10840</td>
</tr>
<tr>
<td>CARING</td>
<td>11337A</td>
</tr>
<tr>
<td>Cercare Medical</td>
<td>11709</td>
</tr>
<tr>
<td>Circle Cardiovascular Imaging</td>
<td>10532C</td>
</tr>
<tr>
<td>ClariPI Inc</td>
<td>1110</td>
</tr>
<tr>
<td>Cognex Corporation</td>
<td>10318</td>
</tr>
<tr>
<td>Collective Minds Radiology</td>
<td>10325</td>
</tr>
<tr>
<td>Combinostics</td>
<td>10532B</td>
</tr>
<tr>
<td>contextflow</td>
<td>10419B</td>
</tr>
<tr>
<td>Coreline Soft</td>
<td>11410E</td>
</tr>
<tr>
<td>CorTechs Labs</td>
<td>10514F</td>
</tr>
<tr>
<td>CuraCloud</td>
<td>11119</td>
</tr>
<tr>
<td>CureMetrix Inc</td>
<td>10115</td>
</tr>
<tr>
<td>DDH Inc.</td>
<td>10532F</td>
</tr>
<tr>
<td>DDH Inc.</td>
<td>10532D</td>
</tr>
<tr>
<td>DDN</td>
<td>11247</td>
</tr>
<tr>
<td>Deep01 Limited</td>
<td>10843</td>
</tr>
<tr>
<td>DeepHealth, Inc.</td>
<td>10123</td>
</tr>
<tr>
<td>DEEPNOID</td>
<td>11518</td>
</tr>
<tr>
<td>DEEP RADIOLOGY</td>
<td>10705</td>
</tr>
<tr>
<td>DEEP RADIOLOGY</td>
<td>11108</td>
</tr>
<tr>
<td>DeepTek Inc</td>
<td>11729</td>
</tr>
<tr>
<td>DeepVoxel Inc.</td>
<td>10740</td>
</tr>
<tr>
<td>Densitas Inc</td>
<td>10707</td>
</tr>
<tr>
<td>DiA Imaging Analysis</td>
<td>11523</td>
</tr>
<tr>
<td>Doctor-NET</td>
<td>11628</td>
</tr>
<tr>
<td>Enlitic Inc</td>
<td>10936</td>
</tr>
<tr>
<td>Ezra AI</td>
<td>11337C</td>
</tr>
<tr>
<td>Flywheel</td>
<td>11618</td>
</tr>
<tr>
<td>Fovia AI</td>
<td>10518</td>
</tr>
<tr>
<td>Fraunhofer MEVIS</td>
<td>11332C</td>
</tr>
<tr>
<td>GE Healthcare</td>
<td>10905</td>
</tr>
<tr>
<td>Google Cloud</td>
<td>11318</td>
</tr>
<tr>
<td>Hangzhou YITU Healthcare Technology Co LTD</td>
<td>11113</td>
</tr>
<tr>
<td>HEALTHLEVEL</td>
<td>10743</td>
</tr>
<tr>
<td>HealthMyne</td>
<td>10713</td>
</tr>
<tr>
<td>HeartVista Inc</td>
<td>11137</td>
</tr>
<tr>
<td>Hologic, Inc</td>
<td>10120</td>
</tr>
<tr>
<td>HOPPR</td>
<td>11246</td>
</tr>
<tr>
<td>Huiying Medical Technology Co Ltd</td>
<td>11732</td>
</tr>
<tr>
<td>IBM Watson Health</td>
<td>11332B</td>
</tr>
<tr>
<td>iCAD, Inc</td>
<td>10716</td>
</tr>
<tr>
<td>icometrix nv</td>
<td>11507</td>
</tr>
<tr>
<td>Company Name</td>
<td>Booth Number</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>ImageBiopsy Lab (IB Lab GmbH)</td>
<td>10514E</td>
</tr>
<tr>
<td>Imbio LLC</td>
<td>11527</td>
</tr>
<tr>
<td>INCEPTO MEDICAL</td>
<td>10327</td>
</tr>
<tr>
<td>Inference Analytics</td>
<td>11145</td>
</tr>
<tr>
<td>Infervision</td>
<td>10737</td>
</tr>
<tr>
<td>InfoMeditech Corp.</td>
<td>11629</td>
</tr>
<tr>
<td>Intelligent Ultrasound</td>
<td>10323</td>
</tr>
<tr>
<td>iSchemaView</td>
<td>10537A</td>
</tr>
<tr>
<td>JLK Inspection</td>
<td>11718</td>
</tr>
<tr>
<td>Kheiron Medical Technologies Ltd</td>
<td>10911</td>
</tr>
<tr>
<td>Koios Medical</td>
<td>11329</td>
</tr>
<tr>
<td>LPIXEL Inc.</td>
<td>11703</td>
</tr>
<tr>
<td>Lunit</td>
<td>10732</td>
</tr>
<tr>
<td>Macadamian Technologies</td>
<td>10320</td>
</tr>
<tr>
<td>MEDEXPRIM</td>
<td>11313B</td>
</tr>
<tr>
<td>Median Technologies</td>
<td>10722</td>
</tr>
<tr>
<td>Medic Vision- Imaging Solutions Ltd</td>
<td>10106</td>
</tr>
<tr>
<td>Medical Innovation Developer Co Ltd</td>
<td>11211</td>
</tr>
<tr>
<td>Medical IP</td>
<td>11332F</td>
</tr>
<tr>
<td>Medimaps</td>
<td>11625</td>
</tr>
<tr>
<td>MEDO.ai</td>
<td>11148</td>
</tr>
<tr>
<td>MGH &amp; BWH Center for Clinical Data Science</td>
<td>1148</td>
</tr>
<tr>
<td>Microsoft</td>
<td>10745</td>
</tr>
<tr>
<td>MIM Software Inc</td>
<td>10419E</td>
</tr>
<tr>
<td>MINT MEDICAL GmbH</td>
<td>11630</td>
</tr>
<tr>
<td>Mirada Medical</td>
<td>11322</td>
</tr>
<tr>
<td>NeoSoma, Inc.</td>
<td>11332E</td>
</tr>
<tr>
<td>Niramai Health Analytix Private Limited</td>
<td>11147</td>
</tr>
<tr>
<td>Nuance Communications</td>
<td>11410B</td>
</tr>
<tr>
<td>NVIDIA</td>
<td>10939</td>
</tr>
<tr>
<td>OneMedNet Corporation</td>
<td>10524</td>
</tr>
<tr>
<td>Onyx Healthcare USA, Inc</td>
<td>11313C</td>
</tr>
<tr>
<td>OSIMIS</td>
<td>11627</td>
</tr>
<tr>
<td>Oxipit, UAB</td>
<td>11245</td>
</tr>
<tr>
<td>PaxeraHealth</td>
<td>11116</td>
</tr>
<tr>
<td>Perception Vision Medical Technologies LTD CO</td>
<td>11410D</td>
</tr>
<tr>
<td>Perspectum Diagnostics</td>
<td>10112</td>
</tr>
<tr>
<td>Philips</td>
<td>10109</td>
</tr>
<tr>
<td>Pure Storage</td>
<td>10419C</td>
</tr>
<tr>
<td>Qlarity Imaging</td>
<td>11505</td>
</tr>
<tr>
<td>QMENTA</td>
<td>10916</td>
</tr>
<tr>
<td>Quantib BV</td>
<td>10419A</td>
</tr>
<tr>
<td>QUIBIM S.L.</td>
<td>10418</td>
</tr>
<tr>
<td>Qure.ai</td>
<td>10427</td>
</tr>
<tr>
<td>Rad AI</td>
<td>10514B</td>
</tr>
<tr>
<td>Radiotics</td>
<td>10321</td>
</tr>
<tr>
<td>Radisen</td>
<td>10118</td>
</tr>
<tr>
<td>RadLogics</td>
<td>10932</td>
</tr>
<tr>
<td>Real Time Medical</td>
<td>11244</td>
</tr>
<tr>
<td>RSNA AI Theater</td>
<td>10724</td>
</tr>
<tr>
<td>RSNA AI Deep Learning Lab</td>
<td>10342</td>
</tr>
<tr>
<td>RSNA Future of Radiology Experience</td>
<td>10945</td>
</tr>
<tr>
<td>Seno Medical Instruments Inc</td>
<td>10423</td>
</tr>
<tr>
<td>SenseTime</td>
<td>11332A</td>
</tr>
<tr>
<td>ShuKun Technology</td>
<td>11620</td>
</tr>
<tr>
<td>Smart Reporting GmbH</td>
<td>11313F</td>
</tr>
<tr>
<td>SOPHIA GENETICS</td>
<td>11140</td>
</tr>
<tr>
<td>Sorna Corporation</td>
<td>11313A</td>
</tr>
<tr>
<td>SpinTech Inc</td>
<td>11530</td>
</tr>
<tr>
<td>Subtle Medical Inc</td>
<td>10719</td>
</tr>
<tr>
<td>TeraRecon</td>
<td>10710</td>
</tr>
<tr>
<td>THERAPIXEL</td>
<td>10132</td>
</tr>
<tr>
<td>TOMTEC CORPORATION</td>
<td>10532A</td>
</tr>
<tr>
<td>Varex Imaging</td>
<td>10514C</td>
</tr>
<tr>
<td>Varian Medical Systems</td>
<td>11706</td>
</tr>
<tr>
<td>VIDA</td>
<td>11143</td>
</tr>
<tr>
<td>Viz.ai</td>
<td>11715</td>
</tr>
<tr>
<td>VIZYON</td>
<td>10537B</td>
</tr>
<tr>
<td>Vuno</td>
<td>11132</td>
</tr>
<tr>
<td>WekalO</td>
<td>11623</td>
</tr>
<tr>
<td>Zebra Medical Vision Ltd</td>
<td>10527</td>
</tr>
</tbody>
</table>

Exhibitor listing as of 10/21/2019
Get the Very Best in Radiology Education

RSNA Spotlight Courses deliver the practical knowledge and insights you simply can't find anywhere else in locations across the globe. Brought to you by radiology's leading source for quality education.

Make your 2020 plans at RSNA.org/Spotlight

GREAT RESEARCH NEEDS A GREAT AUDIENCE.

Be a Presenter at RSNA 2020!

We're looking for radiology thought leaders to provide:

Scientific Presentations / Applied Science
Education Exhibits / Quality Improvement Reports

EARN RECOGNITION

Kuo York Chynn Neuroradiology Research Award: $3,000
The top scientific paper as selected by the Scientific Program Committee will earn this prestigious award.

The RSNA Trainee Research Prize: $1,000
Up to 48 medical students, residents or fellows who submit expanded abstracts of their 2020 RSNA scientific presentation may receive a $1,000 prize and certificate.

VISIT RSNA.ORG/ABSTRACTS FOR COMPLETE GUIDELINES

Submit Online beginning January 2020 at RSNA.org/Abstracts through Wednesday, April 8, 2020 noon CT.

Questions?
Call 1-877-776-2227 (within U.S.) or 1-630-590-7774 (outside U.S.)
Includes courses in joint sponsorship with the American Association of Physicists in Medicine.
The Driving Force Behind AI. And the Leading Place to Learn it All.

Visit the AI Showcase

Sponsored by: zebra MEDICAL VISION

Al is here. RSNA 2019 is your chance to experience it all. From the exciting hands-on learning experiences to the latest AI imaging products and solutions from over 100 companies—you simply can’t miss this opportunity to see all AI, all in one place. Whether it’s visiting the RSNA AI Deep Learning Lab or engaging in captivating RSNA AI Theater Presentations and hands-on workshops—visit the AI Showcase in the North Building, Level 2 to find out what AI means for you from the experts leading the conversation—RSNA.