

Artificial Intelligence

RADIOLOGICAL SOCIETY OF NORTH AMERICA

105[™] Scientific Assembly and Annual Meeting

Meeting.RSNA.org #RSNA19

Accreditation and Designation Statements

The Radiological Society of North America (RSNA®) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The RSNA designates this live activity for a maximum of 94.00 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Commission on Accreditation of Medical Physics Education Program (CAMPEP) has approved the direct transfer of *AMA PRA Category 1 Credit*™ to MPCEC on a credit-for-credit basis for medical physicists.

Corporate Symposium

Please refer to each course description in the online program to determine if CMF credit is offered for the session.

Instructions on claiming credit will be provided during the course. CME credit for the Corporate Symposiums will be provided through a third-party provider and not through RSNA.

The Al Showcase

Visit this exciting central hub for all things related to Al. Located in the North Building, Level 2, this expanded and newly designed area features more than 130 companies offering you the opportunity to demo Al software and products, connect with industry leaders and see the possibilities of Al firsthand. The Showcase also features daily presentations at the RSNA Al Theater, educational opportunities including the RSNA Al Deep Learning Lab, industry-sponsored Al Hands-on Workshops and several networking lounges.

Program information is subject to change. For the most up-to-date information, please use your Meeting App or visit *Meeting,RSNA.org*

Walk Through the Week

Saturday, Nov. 30, 2019

RSNA AI Theater: Japan's Startup Unlocking the Power of AI:

Session Al12 Al Showcase North Building Level 2

11:00-11:20 AM Showcase Presentations

Presented by LPIXEL, Inc.

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 Al Theater: How Subtle Medical Can Improve Operational Efficiency and Patient Satisfaction: Presented by Subtle Medical

Session Al13 Al 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 Al14 Al 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 Al15 Al 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 Al 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 Al-based
Iterative Image Reconstruction: Presented by Medic Vision
Session Al16..... Al 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 Al Theater: Building Trust in Al from the Ground Up: Presented by Koios Medical

Session Al17 Al 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)

Ethics of Al in Radiology: Summary of the European and North American Multisociety Statement

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

Al-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 Al Deep Learning Lab: Data Science: Data Wrangling Session SPAI13.... Al 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

telligence: Bleeding Edge)
E430B
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ations MR: MRI Acceleration using Deep n: Presented by AIRS MEDICAL AI Showcase North Building Level 2
In the state of th
JS Technology: Clinical Benefits of assound Systems: Presented by
South Building, Booth 5119
ations owering Data Science with Imaging: let Corporation I Showcase, North Building, Level 2
ations paring Your Case to Massive Databases edicine: Presented by contextflow I Showcase, North Building, Level 2
r onowedde, rroi in Bananig, Level L
D PM cer Screening and Breast Density by GE Healthcare South Building, Booth 5135
D PM
raphy: Managing the High-risk Patient tient: Presented by Hologic, Inc.

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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 Al24..... Al 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)

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

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 Al25. Al Showcase North Building Level 2

12:45-1:15 PM

Posters and Exhibits: Discussions

Artificial Intelligence Monday Poster Discussions

Session AIS-MOB Al Community, Learning Center

1:00-2:30 PM

Educational Courses

RSNA AI Deep Learning Lab: Data Science: Data Wrangling Session SPAI22 AI Showcase, North Building

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 Al26. Al Showcase North Building Level 2

1:00-2:30 PM

Al Hands-on Workshop

Getting Value from AI in your Clinical Workflow: Presented by ARTERYS

Session HW22...... Al Showcase North Building Level 2, Booth 11536

1:00-2:00 PM

Vendor Workshops

Open Discussion on the Implementation of Contrast Enhanced Digital Mammography: Presented by Hologic, Inc.

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

1:30-3:00 PM

Educational Courses

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.

2:00-3:30 PM

Corporate Symposium

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

2:30-2:50 PM Showcase Presentations	Tuesday, Dec. 3, 2019
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	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
Clinical Perspective on 3D™ Guided Breast Biopsy and Real-time Specimen Imaging: Presented by Hologic, Inc. Session VW70South Building, Booth 5119 3:00-4:30 PM Educational Courses	9:00–10:30 AM Corporate Symposium Creating Winning Workflows: Identifying Pain Points and Solutions within Radiology Workflow: Presented by Philips Session CS31
RSNA Al Deep Learning Lab: Generative Adversarial Networks (GANs) Session SPAI23 Al Showcase North Building Level 2	9:00–10:00 AM Corporate Symposium Provider Panel: An Inside Look at Clinical Experiences with Al: Presented by IBM Watson Health
3:00-4:00 PM Scientific Papers Sessions Chest (Radiomics and Machine Learning) Session SSE05	Session CS33
Gastrointestinal (Artificial Intelligence and Machine Learning) Session SSE09	RSNA AI Deep Learning Lab: Generative Adversarial Networks (GANs) Session SPAI31 AI Showcase North Building Level 2
Informatics (Artificial Intelligence: Triage, Screening, Quality) Session SSE14	10:30 AM-12:00 PM Scientific Papers Sessions Science Session with Keynote: Chest (Pulmonary Vasculature and Angiography/Dual Energy CT)
3:30-5:00 PM Showcase Presentations RSNA AI Theater: RSNA Intracranial Hemorrhage Detection AI Challenge Winner Recognition Event	Session SSG03
Session Al30Al Showcase North Building Level 2	Session SSG08
4:15–5:00 PM Vendor Workshops Efficacy in Diagnosis with Tomosynthesis in Daily Practice (En Español): Presented by Hologic, Inc. Session VW71South Building, Booth 5119	Session SSG13
4:30-6:00 PM Educational Courses Special Interest Session: The Role of AI in Radiology in the Developing World?	Expert Level Imaging Biomarkers for Chest and Breast Imaging: Presented by Lunit Session Al31 Al Showcase North Building Level 2

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10:30 AM-12:00 PM Al Hands-on Workshop

First-Hand Experience with 4 Al-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 Al32.... Al 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

RSNA AI Theater: Putting Medical AI to Work - Delivering Intelligent, Efficient and Validated Solutions to the Workflow of Radiology: Presented by VUNO, Inc.

Session Al33.... Al Showcase North Building Level 2

11:30 AM-12:00 PM

Vendor Workshops

Breaking Down Barriers in Al 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-AI-driven Decision Support from Musculoskeletal MRI: Presented by Balzano AI Engineers

Session Al34..... 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)

Lunch and Learn: Where the Al 'Rubber' Meets the Road:
Making Deep Learning Technology Clinically Safe and

12:30-12:50 PM

Showcase Presentations

RSNA AI Theater: How to Successfully and Responsibly Introduce AI in Clinical Practice: Presented by Quantib BV Session AI35..... AI Showcase North Building Level 2

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 Al Deep Learning Lab: Segmentation
Session SPAI32 . . Al 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 Al36..... Al 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	3:00-4:30 PM Educational Courses RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro) Session SPAI33 AI Showcase North Building Level 2
1:00–2:30 PM Al Hands-on Workshop Head-to-toe hands-on with Al and imaging biomarkers integrated in PACS. QUIBIM Precision: Presented by QUIBIM SL Session HW32	3:00-4:00 PM Scientific Papers Sessions Breast Imaging (Artificial Intelligence in Mammography) Session SSJ02
2:00-3:30 PM Corporate Symposium	Physics (CAD/Machine Learning, Quantitative Imaging) Session SSJ23
Al: Delivering on the Promise: Presented by MaxQ Al Session CS35	3:30-5:00 PM Al Hands-on Workshop Deep Learning for MRI Interpretation on the Microsoft Azure ML Platform: Presented by Balzano Al Engineers Session HW33 Al Showcase North Building Level 2, Booth 11536 3:45-5:00 PM Vendor Workshops Implementing Contrast Enhanced Digital Mammography into
A Revolution in Localization: Presented by Hologic, Inc. Session VW74South Building, Booth 5119	your Practice: Presented by Hologic, Inc. Session VW75South Building, Booth 5119
2:30–3:00 PM Showcase Presentations RSNA AI Theater: How RSNA is Fostering the AI Ecosystem: Presented by Safwan Halabi, MD Session AI39 AI Showcase North Building Level 2 2:30–4:00 PM	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
Educational Courses Hands-on Artificial Intelligence for Non-coders: How is an Intracranial Hemorrhage Detection Algorithm Created? (Hands-on) Course RCA34	Platforms and Infrastructures for Accelerated Discoveries in Machine Learning and Radiomics Course RC454S403B
3:00-3:45 PM	Wednesday, Dec. 4, 2019
Showcase Presentations RSNA AI Theater: Getting Your Radiology Department and IT Ready for AI and Big Data: Presented by Paul J. Chang, MD Session AI40 AI Showcase North Building Level 2	8:30–10:00 AM Educational Courses Machine Learning for Radiotherapy Applications Course RC522
	Deep Learning in Radiology: How Do We Do It?

9:00-10:30 AM

Corporate Symposium

10:00-10:30 AM

Vendor Workshops

Al-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 Al 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 Al41 Al Showcase North Building Level 2

10:30-11:50 AM

Al Hands-on Workshop

GE Healthcare's Edison Partner Program Hands-on Workshop: Presented by GE Healthcare

Session HW41 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 VW76......South Building, Booth 5119

11:00-11:20 AM

Showcase Presentations

RSNA Al Theater: Implementing Al in Clinical Practice - When Technology Hits Reality: Presented by Aidence

Session Al42.... Al Showcase North Building Level 2

11:30-11:50 AM

Showcase Presentations

RSNA AI Theater: Hitting the Bull's AI 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 Al Theater: Al and the Everyday Radiologist: Embracing the Possibilities While Avoiding the Pitfalls: Presented by TeraRecon

Session Al44. Al 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 Al45. Al 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 Al Deep Learning Lab: Generative Adversarial Networks (GANs)

Session SPAI42 . . Al 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

1:30–1:50 PM Showcase Presentations RSNA AI Theater: iCAD's Advancements in Mammography for Cancer Detection and Risk Prediction: Presented by iCAD, Inc. Session AI47 AI Showcase North Building Level 2	8:30–10:00 AM Educational Courses Innovations in Medical Imaging Physics with Deep Learning Course RC621
2:00-2:20 PM Showcase Presentations RSNA AI Theater: Advances in AI Guided Scanning: Presented by HeartVista, Inc.	Course RC629
Session AI48 AI Showcase North Building Level 2 2:00-3:15 PM Vendor Workshops A Revolution in Localization: Presented by Hologic, Inc. Session VW78South Building, Booth 5119	8:30 AM-12:00 PM Educational Courses Musculoskeletal Series: Applying Artificial Intelligence to Musculoskeletal Imaging
2:30-3:30 PM Showcase Presentations RSNA AI Theater: Deep Learning in Radiology: How Do We Do It? Q&A/Follow-up: Presented by Curtis P. Langlotz, MD, PhD; Luciano M. Prevedello, MD, MPH Session AI49 AI Showcase North Building Level 2	Course RC604
2:30-4:00 PM Educational Courses Clinical Decision Support: From Theory to Clinical Practice Course RCC44. S406B	10:30 AM-12:00 PM Scientific Papers Sessions Breast Imaging (Radiomics and Radiogenomics) Session SSQ01
3:00-4:30 PM Educational Courses RSNA AI Deep Learning Lab: Beginner Class: Classification Task (Intro) Session SPAI43 AI Showcase North Building Level 2	Genitourinary (Renal Masses: Artificial Intelligence, Machine Learning, and Texture) Session SSQ10
3:00-4:00 PM Scientific Papers Sessions Breast Imaging (Radiomics) Session SSM02E451A	Session SSQ11
Informatics (Artificial Intelligence: Generative Adversarial Networks) Session SSM14	10:30–10:50 AM Showcase Presentations RSNA AI Theater: The Economic Impact of AI on Mammography-The MD Anderson Experience: Presented by
Thursday, Dec. 5, 2019	CureMetrix Session Al51 Al Showcase North Building Level 2
7:15-8:15 AM Educational Courses Controversy Session: Al: Is it Ready for Your Practice Session SPSC50	10:30-11:00 AM Vendor Workshops Al-based Decision Support for Diagnostic Breast Ultrasound: Presented by GE Healthcare Session VW60

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	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	4:30–6:00 PM Educational Courses Deep Learning-An Imaging Roadmap Course RCC55
	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	Friday, Dec. 6, 2019 8:30–10:00 AM Educational Courses Al, Radiomics, Text Mining, and More: 2019's Key Advances in Imaging Informatics
	Showcase Presentations RSNA AI Theater: ED Radiology Exam Wait Time Prediction: Presented by Philips Healthcare Session AI54 AI Showcase, North Building, Level 2	Course RC853E450A 10:30 AM-12:00 PM Scientific Papers Sessions Chest (Artificial Intelligence - Machine Learning) Session SST02E451A
	12:15–12:45 PM Posters and Exhibits: Discussions Artificial Intelligence Thursday Poster Discussions Session AIS-THA AI Community, Learning Center	Musculoskeletal (Spine) Session SST05 E450B Science Session with Keynote: Pediatrics (Artificial Intelligence and Machine Learning)
	12:30 – 12:50 PM Showcase Presentations RSNA AI Theater: AI-Powered Volumetrics to Improve Radiologist Efficiency and Accuracy: Presented by CorTechs Labs	Posters and Exhibits
	Session Al55 Al Showcase, North Building, Level 2 12:45–1:15 PM Posters and Exhibits: Discussions Artificial Intelligence Thursday Poster Discussions	Discussions (CME is available when the author is present for discussion during the lunch period)
	Session AIS-THB Al Community, Learning Center 1:00-2:30 PM Educational Courses RSNA Al Deep Learning Lab: Segmentation	Sunday, Dec. 1, 2019 12:30-1:00 PM
	Session SPAI52 AI Showcase North Building Level 2 1:00-1:20 PM Showcase Presentations RSNA AI Theater: Collaborative Medical AI Development:	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
	Presented by CuraCloud Session Al56 Al Showcase North Building Level 2 1:30-1:50 PM Showcase Presentations	CT-Derived Radiogenomic Signatures Predicting BRAF/KRAS Mutations and Overall Survival in Primary Colorectal Carcinoma Patients GI378-SD-SUA5
	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	Deep Learning with Multiclass Deep Convolutional Neural Networks to Detect Prostate Cancer on Multiparametric MRI Images Using a Multi-Institution Patient Cohort

Session Al57..... Al Showcase North Building Level 2

Al267-SD-SUA3 Station #3

Measure Abdominal Muscle Area on CT

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 Al209-SD-SUB3
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 Al003-EC-SUB
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 Assessmen
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessmen AI258-SD-MOA2Station #2
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessmen Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessmen Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks Al273-SD-MOA3. Station #3
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessmen Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessment Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks Al273-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
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessment Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks Al273-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
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessment Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks Al273-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
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessment Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks Al273-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
Scientific Posters Artificial Intelligence-Assisted Breast Cancer Risk Assessment Al258-SD-MOA2. Station #2 Automated Quality Control of Adult Frontal Chest X-Ray with Deep Artificial Neural Networks Al273-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,

AI241-SD-MOA1 Station #1

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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
CT Image Retrieval Based on Morphological Similarities in Diffuse Lung Diseases Using a Deep Convolutional Neural Network Al211-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
Impact of Native and Artificially Improved Al-Based CADx on Breast US Interpretation BR254-SD-M0B4
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-MOB2Station #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

Injection in Chest CT Toward a New Cardiac Risk Assessment

AIO22-EB-MOB..... Hardcopy Backboard

Dual Output V-Net CNN: A Virtual Iodinated Contrast Media

Tuesday, Dec. 3, 2019

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Scie	ntitic	Posters

Al Radiomics in a Monogenic Autoimmune Disease: Deep Learning of Routine Radiologist Annotations Correlated with Pathologically Verified Lung Findings

IN212-SD-TUA1..... Station #1

Contrasted Bilateral Network: Explore How Expert Knowledge Can Benefit Deep Learning Model in Mammogram Mass Detection

BR268-SD-TUA7..... Station #7

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

Al145-ED-TUA2 Station #2

Practical Guide to Natural Language Processing Research in Radiology

Al141-ED-TUA1 Station #1

12:45–1:15 PM Scientific Posters Automatic Segmentation of 3D Hip Ultrasound for Detection of Hip Dysplasia Al205-SD-TUB2
Convolutional Neural Network for Respiratory Motion Artifact Reduction in Multiphasic Liver MRI: Network Architecture and Clinical Evaluation Al226-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
Inter-operator Variability in Diffusion Tensor Imaging Tractography for Tumor Resection Surgical Planning IN260-SD-TUB3
Paging Dr. Robot: A Chat Bot with a Machine Learning Algorithm for Predicting Pediatric Bone Age Through Hand-Wrist X-Rays Al225-SD-TUB3
Radiation Dose Reduction in Digital Mammography by Image Reconstruction Using Deep Learning Algorithm: Clinical Evaluation BR237-SD-TUB2
Radio-Proteo-Genomic Differences in IDH1 Mutant versus Wild-Type Gliomas NR426-SD-TUB6
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
Visceral Fat Quantification in Abdominal Computed Tomography Using Deep Learning IN238-SD-TUB1
Whole-Breast Malignancy Rating for MRI Using Deep Learning BR270-SD-TUB5
12:45–1:15 PM Education Exhibits A Filter-Level Pruning Method for More Efficient Deep Learning Inference on Medical Images AI024-EB-TUB

Wednesday, Dec. 4, 2019

12:15-12:45 PM

Scientific Posters

A Machine Learning Approach of Support Vector Machine for Preoperative Prediction of Lymph Node Status in Intrahepatic Cholangiocarcinoma

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

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
ALDOG-EC-WEA

Creating Annotated Image Datasets to Support Deep Learning Training and Validation Al005-EC-WEACustom Application Computer Demonstration
Knowledge Distillation for U-Net on Medical Images AI025-EB-WEA
Unsupervised Anomaly Detection on Medical Images with Generative Adversarial Networks: Strengths and Weaknesses Al012-EB-WEA
12:45-1:15 PM Scientific Posters Association Rule Learning May Estimate Individual Risk for Contrast-Induced Acute Kidney Injury AI227-SD-WEB2Station #2
Automated Classification of Arteriolar Sclerosis Pathology and Prediction of Cognitive Decline Based on MRI Images NR435-SD-WEB4
Can Computational Fluid Dynamics Predict the Progression of Visceral Artery Aneurysms? VI216-SD-WEB2
Digital Variance Angiography as a Risk Reduction Measure in Peripheral Endovascular Interventions VI271-SD-WEB5
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
Mobile Deployment of a Convolutional Neural Network Which Identifies Pacemakers and Implantable Defibrillators on Chest Radiographs
Al230-SD-WEB1
Sub-Region based Radiomics Analysis for Survival Prediction in Oesophageal Tumors Treated by Definitive Concurrent Chemoradiotherapy Al242-SD-WEB3Station #3
Tofu: For Stir-Fry and Ultrasound Procedural Training IN206-SD-WEB3Station #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 Computer Demonstration

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 Computer Demonstration

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

Al262-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

Therapeutic Pancreatic Cancer Tumor Analysis in CT Images	ation Exhibits	
using Global Atlas, Multi-Resolution Convolutional Neural	Space	се No. Ехнівіт Тітіє
Network and Wavelet Volumetric Shape Extraction IN259-SD-THA2	AI001-	1-EC-X Virtual Reality of Self-Supervised Generative Adversarial Learning in Electronic Cleansing for CT Colonography
Education Exhibits ePAD-AI: A Platform for Standards-Based Collaborative AI Application Development in Medical Imaging	Al004	A Radiologist's Guide to Deep Learning and Artificial Intelligence: What You Need to Know for the Road Ahead
AI010-EC-THA Custom Application Computer Demonstration	AI011-	-EB-X Metrics for Artificial Intelligence Algorithms
Self Help: Creating Research Opportunities in a Hybrid Training Setting HP128-ED-THA4	AI013-	B-EB-X Overview of the Content-Based Image Retrieval (CBIR): Technical Advancement and Challenges in Medical Use
12:45-1:15 PM Scientific Posters A Federated Convolutional Denoising Autoencoder for MRI	AI014-	From Images to Analysis, Segmentation, Classification and Radiomics: pyOsirix- Centered Workflow Solutions
Applications AI200-SD-THB1 Station #1	AI015-	5-EB-X Practical Guide for Deployment of Al Solutions in Clinical Environment: How Did We Do It?
Artificial Intelligence-Based Cochlea Segmentation and Analysis on Clinical High-Resolution CT Images: Towards Automatic Patient-Specific Measurements for Surgical Planning NR416-SD-THB5	AI016-	
Machine Learning Model Generalizes Across Manufacturers and Clinical Sites BR250-SD-THB3 Station #3	AI017-	7-EB-X Building Robust ML Models Using Federated Learning: The Future of Al Deployment
Medical Federated Deep Learning (MedFDL) for Automatic Body Part Labeling of CT Scout Images AI250-SD-THB2	AI018-	B-EB-X Why One Algorithm May Not Fit All: What Radiologists Need to Know About How Selection Bias May Affect Machine Learning Performance
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	AI019-	Practical Approaches to Managing Class Imbalance in Deep Learning on Radiological Data
Vulnerability of Deep Learning based Computer-Aided Diagnosis: Experimental Adversarial Attack Against CT Lung Nodule Detection Model	AI020-	O-EB-X Generative Adversarial Networks Showcase: Their Mechanisms and Radiological Applications
AI202-SD-THB3 Station #3 12:45-1:15 PM	AI021-	How to Improve the Quality of Organ Segmentation on CT Images and Where Could It Be Applicable?
Education Exhibits Common-Space-Learning from Multi-Modality for Missing MRI	AI102-	
Synthesis and Glioma Grading AI009-EC-THB Custom Application Computer Demonstration	AI103-	B-ED-X How to Use Data Augmentation to Improve Deep Learning Model Performance
Generative Adversarial Network Models for Prediction of Survival in Patients with Interstitial Lung Diseases AI002-EC-THB	Al106-	6-ED-X An Intuitive Explanation of Radiomics

Computer Demonstration

Al108-ED-X	Neural Networks in Deep Learning: A Simplified Explanation for Radiologists	MK112-ED-X	Synovial Disorders: A Radiographic Review
Al109-ED-X	A Quick Start to Deep Learning for Radiologists	MK114-ED-X	DISH, Ankylosing Spondylitis, and Spondyloarthrosis: What's the Difference?
AI111-ED-X	Convolutional Neural Networks: Fundamental Theory and Guided Implementation for the Radiologist Using Google Collaboratory	MK125-ED-X	Stepwise Approach to Arthritis Based on Imaging
		MK129-ED-X	Musculoskeletal System Involvement by Opportunistic Infections: More Common
Al113-ED-X	Convolutional Neural Networks: Challenges and Solutions	MK131-ED-X	than Recognized Imaging Findings of Osteomyelitis: Update
Al114-ED-X	Anatomy of a Deep Learning Project for Breast Cancer Prognosis Prediction: From Collecting Data to Building a Pipeline		on Diagnosis
		MK132-ED-X	Conventional Radiology in Peripheral Arthritis: What the Radiologist Needs to Know
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Al116-ED-X	Artificial Intelligence in Radiology: An Animated Interactive 'How We Do It' Guide for Radiology Residents	MK161-ED-X	Imaging Features of Inflammatory Disorders of the Spine: Update on Diagnosis
AI118-ED-X	Development of Accuracy Guarantee System using Deep Learning in Radiography	MK169-ED-X	Yes, I Can Look Alike: Extra-Axial Tubercular Arthropathies and Its Mimics
Al119-ED-X	Radiomics in Clinical Trials - The Rationale, Current Practices, and Future Considerations	MK187-ED-X	A Practical Guide to Interpret MRI Features of New Bone Formation in Axial Spondyloarthritis
Al129-ED-X	The Subtle Art of Accurate Natural Language Processing for Radiology Report Mining	MK215-ED-X	Imaging of Systemic Lupus Erythematosus: Musculoskeletal Manifestations
HP104-ED-X	Mentorship, Sponsorship, and Coaching: Key Faculty and Resident Development	MK217-ED-X	Imaging Features of Chronic Kidney Disease Mineral and Bone Disorders (CKD-MBD)
	Concepts and a Guide for Successful Implementation in the Radiology Department	MK228-ED-X	POPP Lesions: From Unrecognized to an Emerging Popping-up Entity in Auto- immune Arthritis
HP118-ED-X	Optimizing the Mentor-Mentee Relationship: A Guide for Mentees	MK232-ED-X	Musculoskeletal Tuberculosis: A Practical Guide for Residents
MK001-EB-X	Infected or Not? And by What? Challenging Cases of Musculoskeletal Infection Which Were Met During the	MK235-ED-X	Chronic Nonbacterial Osteomyelitis: The Role of Whole-Body MRI
MK100-ED-X	Multidisciplinary Care Approach Differentiation of Hand Small Joints	MK250-ED-X	Death is Not in the Air: Imaging Review of Necrotizing Fasciitis (NF)
MICO LD A	Arthropathy in Patients with Rheumatoid Arthritis and Psoriatic Arthritis:	MK256-ED-X	Skeletal Involvement in Gaucher's Disease: From Macrophage to Bone
MK105-ED-X	Multimodality Imaging Characteristics Osteomyelitis - A Common Disease with Many Faces	MK257-ED-X	Imaging the 'Forgotten' Sternoclavicular Joint: Pathology, Pitfalls, and Pearls
		MK259-ED-X	A Comprehensive Review of Diabetic Foot Complications

MK260-ED-X	Image of Musculoskeletal Fungal Infections: Educational Review Based on	MK105-ED-X	Osteomyelitis - A Common Disease with Many Faces
Al108-ED-X	Cases Neural Networks in Deep Learning: A	MK112-ED-X	Synovial Disorders: A Radiographic Review
Simplified Explanation for Radiologists Al109-ED-X A Quick Start to Deep Learning for	MK114-ED-X	DISH, Ankylosing Spondylitis, and Spondyloarthrosis: What's the Difference?	
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		MK250-ED-X	Death is Not in the Air: Imaging Review of Necrotizing Fasciitis (NF)
MK100-ED-X	Differentiation of Hand Small Joints Arthropathy in Patients with Rheumatoid Arthritis and Psoriatic Arthritis: Multimodality Imparing Characteristics	MK256-ED-X	Skeletal Involvement in Gaucher's Disease: From Macrophage to Bone

Multimodality Imaging Characteristics



MK257-ED-X Imaging the 'Forgotten' Sternoclavicular

Joint: Pathology, Pitfalls, and Pearls

MK259-ED-X A Comprehensive Review of Diabetic Foot

Complications

Image of Musculoskeletal Fungal MK260-ED-X

Infections: Educational Review Based on

Cases

Demonstrations

NCI Crowds Cure Cancer: Help Annotate Data from the Cancer Imaging Archive

Session Al050 Al Community, Learning Center

Prediction of CT Perfusion Arterial and Venous Timeattenuation Curve Parameters Using Deep Learning Systems: Proof-of-concept for Developing a Personalized CT Perfusion Protocol for Acute Stroke Workup

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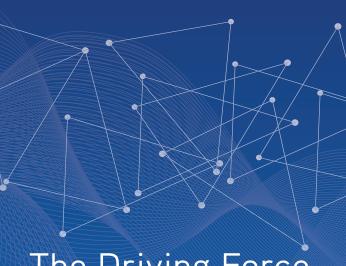
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