INFORMATICS

104th Scientific Assembly and Annual Meeting
Radiological Society of North America
McCormick Place, Chicago

November 25–30
Meeting.RSNA.org #RSNA18
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 99.25 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.

3D Printing SIG Kiosk

In addition to many hands-on courses, the Learning Center will include a 3D Printing SIG Kiosk featuring 3D prints, posters, and information and resources on how to get involved in the 3D printing medical community.

Corporate Symposium

Please refer to each course description in the online program to determine if CME 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.

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

Demonstrations
National Cancer Institute Image Perception Research Lab
Session DM002. . . . . . . . . . . Learning Center, Hall D
Lakeside Center East

Common Data Elements
Session IN050. . . . . . . . . . . IN Community, Learning Center
RadReport 2.0
Session IN051. . . . . . . . . . . IN Community, Learning Center
Computer Assisted Radiology and Surgery (CARS)
Session IN053. . . . . . . . . . . IN Community, Learning Center
The Society for Imaging Informatics in Medicine (SIIM)
Session IN054. . . . . . . . . . . IN Community, Learning Center

SUNDAY, NOV 25, 2018
8:30–10:15 AM
Plenary Sessions
Opening Session
Session PS10 . . . . . . . . . . . Arie Crown Theater

10:45 AM–12:15 PM
Scientific Papers Sessions
Science Session with Keynote: Informatics (Artificial Intelligence in Radiology: Cutting Edge Deep-Learning)
Session SSA12 . . . . . . . . . . . S406B

11:00 AM–12:30 PM
Educational Courses
Radiology Search and Analytics Software Tools for Clinical and Practice Quality Optimization (Hands-on)
Course RCA11 . . . . . . . . . . . S401AB
Teaching Congenital Heart Morphology with 3D Print Models II: Understanding Surgical Procedures in Congenital Heart Diseases with Illustrations and 3D Print Models (Hands-on)
Course RCB11 . . . . . . . . . . . S401CD

12:30–1:00 PM
Posters and Exhibits: Discussions
Artificial Intelligence Sunday Poster Discussions
Session AIS–SUA . . . . . . . AI Community, Learning Center
Informatics Sunday Poster Discussions
Session INS–SUA . . . . . . . IN Community, Learning Center
1:00–1:30 PM
Posters and Exhibits: Discussions
Artificial Intelligence Sunday Poster Discussions
Session AIS-SUB . . . . . . . AI Community, Learning Center
Informatics Sunday Poster Discussions
Session INS-SUB . . . . . . . IN Community, Learning Center

2:00–3:30 PM
Educational Courses
Deep Learning in Radiology: How Do We Do It?
Course RC153 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E450A
Leveraging IT to Optimize Quality in Radiology
Course RC154 . . . . . . . . . . . . . . . . . . . . . . . . . . . . N229
Technologies for Creating Educational Content and Teaching Files (Hands-on)
Course RCA12 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB
RSNA Diagnosis Live Interactive and Mobile Device Integrated Audience Response: Tips, Tricks, and How to Get Started (Hands-on)
Course RCB12 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401CD
Core Cybersecurity for Imaging Departments and Imagers: Threats, Vulnerabilities and Best Practices Part 1
Course RCC12 . . . . . . . . . . . . . . . . . . . . . . . . . . . S501ABC

4:00–5:30 PM
Educational Courses
3D/VR/AR Imaging: Staying on the Cutting Edge of Brain Anatomy/Pathology (Hands-on)
Course RCA13 . . . . . . . . . . . . . . . . . . . . . . . . . . . S401AB
Introduction to 3D Medical Printing
Course RCC13 . . . . . . . . . . . . . . . . . . . . . . . . . . . S501ABC

MONDAY, NOV 26, 2018
7:15–8:15 AM
Educational Courses
Hot Topic Session: 3D Printing in Urologic Oncology
Session SPSH20 . . . . . . . . . . . . . . . . . . . . . . . . . . E450A

8:30–10:00 AM
Educational Courses
Preparing your Radiology Practice and IT Department for Big Data
Course RC253 . . . . . . . . . . . . . . . . . . . . . . . . . . . S503AB
Next Frontier in Imaging: Disease-specific Radiology Reports
Course RC254 . . . . . . . . . . . . . . . . . . . . . . . . . . . S402AB
Deploying an Open-Source DICOM Archive and Web Viewer with OHIF and Orthanc (Hands-on)
Course RCB21 .................................................. S401CD

Getting Stuff Done: A Mindful Approach to Personal Productivity
Course RCC21 .................................................. S501ABC

**10:30 AM–12:00 PM**

**Educational Courses**

Getting Stuff Done: A Hands-on Technology Workshop to Enhance Personal Productivity (Hands-on)
Course RCB22 .................................................. S401CD

Using Imaging Informatics to Enable Patient Experience Improvements in Radiology
Course RCC22 .................................................. S501ABC

**10:30 AM–12:00 PM**

**Scientific Papers Sessions**

Science Session with Keynote: Informatics (Artificial Intelligence in Radiology: Bleeding Edge)
Session SSC09 .................................................. E450A

**12:15–12:45 PM**

Posters and Exhibits: Discussions
Artificial Intelligence Monday Poster Discussions
Session AIS-MOA ........................................... AI Community, Learning Center

Informatics Monday Poster Discussions
Session INS-MOA ........................................... IN Community, Learning Center

**12:30–2:00 PM**

**Educational Courses**

Introduction to Machine Learning and Texture Analysis for Lesion Characterization (Hands-on)
Course RCA23 .................................................. S401AB

A Hands-on Introduction to Using the NIH/NCI’s Cancer Imaging Archive (TCIA) (Hands-on)
Course RCB23 .................................................. S401CD

Structured Reporting and the RSNA/ESR Reporting Initiative
Course RCC23 .................................................. S501ABC

**12:45–1:15 PM**

Posters and Exhibits: Discussions
Artificial Intelligence Monday Poster Discussions
Session AIS-MOB ........................................... AI Community, Learning Center

Informatics Monday Poster Discussions
Session INS-MOB ........................................... IN Community, Learning Center
2:30–4:00 PM
Educational Courses
Creating Patient-Specific Anatomical Models for 3D Printing and AR/VR (Hands-on)
Course RCA24 .......................... S401AB
Clinical Decision Support: From Theory to Clinical Practice
Course RCC24 .......................... S501ABC

3:00–4:00 PM
Scientific Papers Sessions
Informatics (Artificial Intelligence in Radiology: More Cutting-Edge Deep Learning)
Session SSE14 .......................... E353C

4:30–6:00 PM
Educational Courses
Image to 3D Prints: How 3D Printing Works (Hands-on)
Course RCA25 .......................... S401AB
Intro to Statistics with R (Hands-on)
Course RCB25 .......................... S401CD
3D Medical Printing Applications I
Course RCC25 .......................... S501ABC
Special Interest Session: Demystifying Machine Learning and Artificial Intelligence for the Radiologist
Session SPSI24 .......................... E451A

TUESDAY, NOV 27, 2018
8:30–10:00 AM
Educational Courses
Deep Learning & Machine Intelligence in Radiology
Course RC353 .......................... S406A
How Did I Miss That? Perceptual and Attentional Roots of Medical Errors
Course RC354 .......................... N226
RSNA Diagnosis Live Interactive and Mobile Device Integrated Audience Response: Tips, Tricks, and How to Get Started (Hands-on)
Course RCB31 .......................... S401CD
Interoperability: Imaging and Beyond - IHE, Standards, and the RSNA Image Share
Course RCC31 .......................... S501ABC

8:30 AM–12:00 PM
Educational Courses
Neuroradiology Series: Artificial Intelligence in Neuroradiology
Course RC305 .......................... S406B
### 10:30 AM–12:00 PM

#### Educational Courses

- **Understanding the Critical Relationships of Quality, Experience, and Performance for Effective Imaging Services** (Interactive Session)
  - Course MSAS32 .................................. S105AB
- **3D/VR/AR Imaging: Staying on the Cutting Edge of Brain Anatomy/Pathology (Hands-on)**
  - Course RCA32 .................................. S401AB
- **RadLex: Semantics for Smart Workflows and Enterprises**
  - Course RCC32 .................................. S501ABC

### 10:30 AM–12:00 PM

#### Scientific Papers Sessions

- **Informatics (Artificial Intelligence in Radiology: No Pixels or Fake Pixels)**
  - Session SSG06 .................................. N230B
- **Musculoskeletal (Machine Learning and Artificial Intelligence)**
  - Session SSG08 .................................. S102CD
- **Physics (CAD/Machine Learning)**
  - Session SSG13 .................................. S404AB

### 12:15–12:45 PM

#### Posters and Exhibits: Discussions

- **Artificial Intelligence Tuesday Poster Discussions**
  - Session AIS-TUA ............................. AI Community, Learning Center
- **Informatics Tuesday Poster Discussions**
  - Session INS-TUA ............................. IN Community, Learning Center

### 12:30–2:00 PM

#### Educational Courses

- **Secure Image Sharing for Education and Patient Care in Radiology**
  - Course RCC33 .................................. S501ABC

### 12:45–1:15 PM

#### Posters and Exhibits: Discussions

- **Artificial Intelligence Tuesday Poster Discussions**
  - Session AIS-TUB ............................. AI Community, Learning Center
- **Informatics Tuesday Poster Discussions**
  - Session INS-TUB ............................. IN Community, Learning Center

### 2:30–4:00 PM

#### Educational Courses

- **Leveraging Machine Learning Techniques and Predictive Analytics for Knowledge Discovery in Radiology (Hands-on)**
  - Course RCA34 .................................. S401AB
- **3D Medical Printing Technologies**
  - Course RCC34 .................................. S501ABC
3:00–4:00 PM
Scientific Papers Sessions
Informatics (Patient Safety, Data Sharing and Security)
Session SSJ13 ................................. N230B

4:30–6:00 PM
Educational Courses
Mini-course: Image Interpretation Science - Computational Perception
Course RC425. ......................... S103AB
Deep Learning-An Imaging Roadmap
Course RC453. ............................... E451B
Enterprise Imaging for the Practicing Radiologist
Course RC454. ............................... E263
3D Printing Hands-on with Open Source Software: Introduction (Hands-on)
Course RCA35. ............................... S401AB
Querying, Parsing, and Extracting DICOM Data: Basic Functionality with Real-World Use Cases and Applications (Hands-on)
Course RCB35. ............................... S401CD
Don’t Let MACRA and MIPS Kill Your Practice: How To Optimize Your Participation
Course RCC35. ............................... S501ABC

WEDNESDAY, NOV 28, 2018
8:30–10:00 AM
Educational Courses
Deep Learning: Applying Machine Learning to Multi-disciplinary Precision Medicine Data Sets
Course RC553. ............................... E451B
Next Generation Reporting: Informatics to Improve the Value of Reporting
Course RC554. ............................... S504AB
Getting Stuff Done: A Mindful Approach to Personal Productivity
Course RCB41. ............................... S401CD
Advanced Cybersecurity for Imaging Departments and Imagers: Threats, Vulnerabilities, and Best Practices
Course RCC41. ............................... S501ABC

10:30 AM–12:00 PM
Educational Courses
From Texture Analysis to Deep Learning for Lesion Characterization (Hands-on)
Course RCA42 ............................... S401AB
Getting Stuff Done: A Hands-on Technology Workshop to Enhance Personal Productivity (Hands-on)
Course RCB42 ........................................ S401CD

3D Medical Printing Applications II
Course RCC42 ........................................ S501ABC

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

12:30–2:00 PM
Educational Courses
Image to 3D Prints: How 3D Printing Works (Hands-on)
Course RCA43 ........................................ S401AB
AI, Radiomics, Text Mining, and More: 2018’s Key Advances in Imaging Informatics
Course RCC43 ........................................ S501ABC

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

2:30–4:00 PM
Educational Courses
Advanced AI Tools for Radiologist-driven Mining of Imaging and Hospital-based Data Sets for Developing and Testing Hypothesis from Clinical Practice (Hands-on)
Course RCA44 ........................................ S401AB
Cinematic Rendering: Principles, Pearls, and Clinical Applications
Course RCC44 ........................................ S501ABC

3:00–4:00 PM
Scientific Papers Sessions
Informatics (Quantitative Imaging)
Session SSM12 ................................. E353B
Informatics (3D Printing and Alt Realities - AR/VR)
Session SSM13 ................................. E353C

4:30–6:00 PM
Educational Courses
Creating Patient-Specific Anatomical Models for 3D Printing and AR/VR (Hands-on)
Course RCA45 ........................................ S401AB
Informatics Strategic Planning and Execution: How-To’s and Lessons Learned
Course RCC45. . . . . . . . . . . . . . . . . . . . . . . . . . . S501ABC

THURSDAY, NOV 29, 2018
8:00–9:00 AM
Educational Courses
ASRT@RSNA 2018: Working Together to Create 3D Printed Models in Medicine
Course MSRT51. . . . . . . . . . . . . . . . . . . . . . . . . . . N230B

8:30–10:00 AM
Educational Courses
The Impact of Artificial Intelligence on Radiology Training and Practice Around the World (Sponsored by RSNA Committee of International Radiology Education)
Course RC616 . . . . . . . . . . . . . . . . . . . . . . . . . . . . E350
Machine Learning and Artificial Intelligence: The Non-Interpretive Considerations
Course RC653. . . . . . . . . . . . . . . . . . . . . . . . . . . . E450A
The Use of Business Analytics for Improving Radiology Operations, Quality, and Clinical Performance (In Association with the Society for Imaging Informatics in Medicine)
Course RC654. . . . . . . . . . . . . . . . . . . . . . . . . . . . S104A
Intro to Statistics with R (Hands-on)
Course RCB51. . . . . . . . . . . . . . . . . . . . . . . . . . . . S401CD
Virtual Reality and 3D Printing
Course RCC51. . . . . . . . . . . . . . . . . . . . . . . . . . . . S501ABC

10:30 AM–12:00 PM
Educational Courses
Hands-on Introduction to Social Media: Core (Hands-on)
Course RCB52. . . . . . . . . . . . . . . . . . . . . . . . . . . . S401CD
Novel Discoveries Using the NCI’s Cancer Imaging Archive (TCIA) Public Data Sets
Course RCC52. . . . . . . . . . . . . . . . . . . . . . . . . . . . S501ABC

10:30 AM–12:00 PM
Scientific Papers Sessions
Informatics (Reporting, Education Decision Support)
Session SSQ11. . . . . . . . . . . . . . . . . . . . . . . . . . . . S103AB

12:15–12:45 PM
Posters and Exhibits: Discussions
Artificial Intelligence Thursday Poster Discussions
Session AIS-THA . . . . . . . AI Community, Learning Center
Informatics Thursday Poster Discussions
Session INS-THA . . . . . . . IN Community, Learning Center
12:30–2:00 PM
Educational Courses
Leveraging Machine Learning Techniques and Predictive Analytics for Knowledge Discovery in Radiology (Hands-on)
Course RCA53. ........................... S401AB
Growing Your Business with Social Media: Tips and Tricks for Department and Practice Managers
Course RCC53. ........................... S501ABC

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

2:30–4:00 PM
Educational Courses
Reject Rate Analysis in the Digital Era: Leveraging Informatics to Enhance Quality Control in Radiography
Course RCB54. ........................... S401CD
IHE on FHIR
Course RCC54. ........................... S501ABC

4:30–6:00 PM
Educational Courses
Platforms and Infrastructures for Accelerated Discoveries in Machine Learning and Radiomics
Course RC753. ............................. E451A
Value-based Imaging in the Accountable Care Organization Model
Course RC754. ............................. N230B
3D Printing Hands-on with Open Source Software Introduction (Hands-on)
Course RCA55. ............................. S401AB
Transpositions of the Great Arteries in Your Hands (Hands-on)
Course RCB55. ............................. S401CD
Patient-Centric Radiology
Course RCC55. ............................. S501ABC

FRIDAY, NOV 30, 2018
8:30–10:00 AM
Educational Courses
Want to Learn More About Imaging Informatics? Education, Resources and Certifications
Course RC854. ............................. E260
Posters and Exhibits
Discussions

(CME is available when the author is present for discussion during the lunch period)

**SUNDAY, NOV 25, 2018**

**12:30–1:00 PM**

**Scientific Posters**
Effect of Inter-Observer Variability on Deep Learning in Chest X-Rays
AI200-SD-SUA1 .................................................. Station #1

**12:30–1:00 PM**

**Education Exhibits**
Applying Virtual and Augmented Reality to Radiology and Medicine
IN007-EC-SUA ........................ Custom Application Computer Demonstration
Deep Learning-Based Texture Classification for Similar CT Image Retrieval
AI152-ED-SUA2 .............................. Station #2
Improving Radiology Report Quality by Moving a Patient Forward Along a Clinical Spectrum
IN009-EC-SUA ........................ Custom Application Computer Demonstration
Lessons Learned About Diagnostic Radiology Reporting from Practicing Interventional Radiology
IN140-ED-SUA1 ................................. Station #1
Real Time Detection and Labeling of Image Objects: YOLO (You Only Look Once), A Case Study (with Pitfalls) in Training and Running a Deep Network to Detect and Label Objects
AI023-EC-SUA ........................ Custom Application Computer Demonstration

**1:00–1:30 PM**

**Scientific Posters**
Automated Foreign Object Detection in Chest X-Ray Images Based on Deep Learning
AI201-SD-SUB1 ................................. Station #1

**1:00–1:30 PM**

**Education Exhibits**
3D Printing for Liver Surgery Planning: A Step by Step Guide
IN142-ED-SUB2 ............................. Station #2
Blockchain Technology: Principles and Applications in Radiology
IN141-ED-SUB1 .................................. Station #1

Code2Vec: A Novel, Vector Space Model Representation of Radiology CPT Codes
IN010-EB-SUB .............................. Hardcopy Backboard

Data-Driven Capacity Assessment of Nursing Bay Resources Shared Among Multiple Radiology Modalities
IN013-EB-SUB .............................. Hardcopy Backboard

Deep Learning for Discovery of Latent Information in Contrast Free Cardiac CT Images
AI025-EB-SUB .............................. Hardcopy Backboard

MONDAY, NOV 26, 2018
12:15–12:45 PM

Scientific Posters
Automatic Contrast Enhancement Detection on Head CT
AI202-SD- MOA1 .......................... Station #1

Prostate Cancer Lesion Segmentation and Gleason Score Prediction Using Multi-parametric MRI via Deep Residual Neural Network
AI203-SD-MOA4 .......................... Station #4

Semi-Automatic RECIST Labeling on CT Scans with Cascaded Convolutional Neural Networks
AI204-SD-MOA6 .......................... Station #6

12:15–12:45 PM

Education Exhibits
Abdominal Segmentation for Body Composition Using Deep-Learning U-Net
AI027-EB-MOA ............................ Hardcopy Backboard

An Artificial Intelligence-Based System for Triaging of Digital Mammography Exams
AI026-EB-MOA ............................ Hardcopy Backboard

Application of Radiomics in Pancreatic Imaging – Current Status and Future Directions
IN144-ED-MOA1 .......................... Station #1

Deep Learning Techniques for Automated Segmentation of Diffuse Lung Disease Opacities on CT Images
AI143-ED-MOA5 .......................... Station #5

12:45–1:15 PM

Scientific Posters
3D Context Enhanced Region-based Convolutional Neural Network for Universal Lesion Detection in a Large Database of 32,735 Manually Measured Lesions on Body CT
AI208-SD-MOB3 .......................... Station #3
Improving Radiology Appointment Wait Time Prediction with Machine Learning
AI206-SD-MOB2 ........................................ Station #2

Lossless Compression of Segmented 3D Binary Data for Efficient Telemedicine Applications
IN207-SD-MOB1 ........................................ Station #1

Recognition of Pediatric Long-Bone Fractures in the Setting of Variable Open Growth Plates by Convolutional Neural Networks
AI209-SD-MOB4 ........................................ Station #4

Solid Renal Tumor Detection Using Convolutional Neural Networks
AI205-SD-MOB1 ........................................ Station #1

12:45–1:15 PM
Education Exhibits
Right Diagnosis, Wrong Patient! A Picture is Worth a Thousand Images: The Value of Photo-Verification Technology
IN145-ED-MOB2 ........................................ Station #2

TUESDAY, NOV 27, 2018
12:15–12:45 PM
Scientific Posters
Are Patients Using Online Portals to View Radiology Reports?
IN214-SD-TUA3 ........................................ Station #3

Deep Learning-Enabled Normalization of Reconstruction Kernel-Induced Variability of Emphysema Index in Low-Dose Lung CT
IN211-SD-TUA2 ........................................ Station #2

Improving Computer Aided Classification of Breast Lesions on Mammograms Using Simulated Masses by Generative Adversarial Networks
IN210-SD-TUA1 ........................................ Station #1

Synthetic PET Generator: A Novel Method to Improve Lung Nodule Detection by Combining Outputs from a Pix2pix Conditional Adversarial Network and a Convolutional Neural Network Based Malignancy Probability Estimator
AI213-SD-TUA2 ........................................ Station #2

Transfer-Learning for Imaging-Based Lung Cancer Stratification
AI212-SD-TUA1 ........................................ Station #1
12:15–12:45 PM

Education Exhibits
RadSim: A Single Vendor-Neutral Portal of Real Life Experience to Its Users on All Generic and Specific Aspects of CT Scanning Including Principles of CT Hardware, Scan Parameters, Scanning Protocol, Dual Energy, Image Quality, and Radiation Dose
IN006-EC-TUA ............ Custom Application Computer Demonstration

12:45–1:15 PM

Scientific Posters
Evaluating the Completeness of a Radiology Glossary for the Vocabulary of Breast Imaging Reports
IN217-SD-TUB1 .................. Station #1
Impact of Deep Learning-based CT Denoising on Normal Anatomical Structures in Low Dose Chest CT: FBP vs IRT vs Deep Learning
AI215-SD-TUB1 .................. Station #1
Machine Learning for Identifying the Value of Digital Breast Tomosynthesis using Data from a Multicentre Retrospective Study
AI216-SD-TUB2 .................. Station #2
Patient Data Adapted Deep Learning for Multi-Label Chest X-Ray Classification
AI218-SD-TUB3 .................. Station #3
Radiologist Adoption of an Innovative Radiology Reporting Technique: The Inclusion of Active Hyperlinks to Key Image Findings in the PACS
IN219-SD-TUB2 .................. Station #2

12:45–1:15 PM

Education Exhibits
Computational Fluid Dynamics in Practice: An Illustrated "How-To" with Examples from CT Fractional Flow Reserve, Endothelial Shear Stress, Abdominal Aortic Aneurysms, and Congenital Heart Disease
IN147-ED-TUB3 .................. Station #3
Designing and Performing State-of-the-Art Virtual Clinical Trials: Everything You Wanted to Know About VCTs but Dared Not Ask
IN148-ED-TUB4 .................. Station #4
WEDNESDAY, NOV 28, 2018

12:15–12:45 PM
Scientific Posters
#Radiology: A 7-Year Analysis of Radiology-Associated Hashtags
IN220-SD-WEA1 . . . . . . . . . . . . . . . . . . . . . . . Station #1
Accuracy of Using Google Translate to Convert Radiology Terminology from English to Chinese
IN222-SD-WEA3 . . . . . . . . . . . . . . . . . . . . . . . Station #3
Comparative Analysis of 3D Printed Materials for Cortical Mastoidectomy Simulation
IN224-SD-WEA5 . . . . . . . . . . . . . . . . . . . . . . . Station #5
Direct Validation of Quantitative MRI Cerebral Perfusion at Rest, Stress and Ischemia
IN223-SD-WEA4 . . . . . . . . . . . . . . . . . . . . . . . Station #4
Integrating an Ontology of Radiology Differential Diagnosis with RadLex, SNOMED CT, and ICD-10-CM
IN221-SD-WEA2 . . . . . . . . . . . . . . . . . . . . . . . Station #2

12:15–12:45 PM
Education Exhibits
“Virtual” High-Dose Technology: Radiation Dose Reduction in Thin-Slice Chest CT at a Micro-Dose (mD) Level by Means of 3D Deep Neural Network Convolution (NNC)
AI146-ED-WEA1 . . . . . . . . . . . . . . . . . . . . . . . Station #1

12:45–1:15 PM
Scientific Posters
Characterization of Renal Solid Masses Using Multiparametric Diffusion-Weighted Imaging
IN229-SD-WEB5 . . . . . . . . . . . . . . . . . . . . . . . Station #5
Detection of Pacemaker and Determination of MRI-conditional Pacemaker Based on Deep-learning Convolutional Neural Networks to improve the Patients’ MRI Safety
IN227-SD-WEB3 . . . . . . . . . . . . . . . . . . . . . . . Station #3
Development of Patient-Specific 3D Printed Model and Graft Guide for Open Surgical Repair of Thoracoabdominal Aortic Dissection
IN228-SD-WEB4 . . . . . . . . . . . . . . . . . . . . . . . Station #4
Patient Identification on Chest X-Ray Using Artificial Intelligence
IN226-SD-WEB2 . . . . . . . . . . . . . . . . . . . . . . . Station #2
Standardizing the Content and Format of Common Data Elements in Radiology
IN225-SD-WEB1 . . . . . . . . . . . . . . . . . . . . . . . Station #1
12:45–1:15 PM
Education Exhibits
Quality Assurance for Crowdsourced Annotation of the Chest X-ray 14 Dataset for the RSNA-STR Machine Learning Challenge: How We Did It
AI149-ED-WEB1 .......................... Station #1

THURSDAY, NOV 29, 2018
12:15–12:45 PM
Scientific Posters
Markerless Tumor Tracking for Hepatocellular Carcinoma Using Fluoroscopic Imaging with a Deep Neural Network
AI231-SD-THA2 .......................... Station #2

Morphological Classification of the Cortical Bone Layer Using Deep Learning in Panoramic Radiography
AI232-SD-THA3 .......................... Station #3

Support Vector Machine Model for Stratification of Liver Stiffness using Clinical Data
AI230-SD-THA1 .......................... Station #1

Viewing Imaging Studies: How Patient Location and Imaging Site Affect Referring Physicians
IN233-SD-THA1 .......................... Station #1

12:15–12:45 PM
Education Exhibits
Emerging Approaches for Applying Artificial Intelligence in Neuroradiology
AI150-ED-THA4 .......................... Station #4

12:45–1:15 PM
Scientific Posters
CT Image Enhancement for Lesion Segmentation Using Stacked Generative Adversarial Networks
AI234-SD-THB1 .......................... Station #1

Readability of Neuroradiology CT and MRI Reports: Are They Over Patients’ Heads?
IN235-SD-THB1 .......................... Station #1

12:45–1:15 PM
Education Exhibits
A Two-Stage Deep-Learning Scheme for Reducing Radiation Dose in Digital Breast Tomosynthesis (DBT)
AI151-ED-THB2 .......................... Station #2
Anatomical Borderline Structure Detection in Chest X-Ray by Deep Neural Networks

DeepGrow: A General-Purpose and Interactive Segmentation Tool Based on Deep Learning
## Education Exhibits

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