RSNA 2018 Presentation List

– Monday –
Scientific Paper
Title: Radiation Dose Reduction in Digital Breast Tomosynthesis (DBT) by Means of Neural Network Convolution (NNC) Deep Learning
Authors: J Liu, MS, Chicago, IL; A Zarshenas, MSc; S Qadir; L Yang, MD, PhD; L L Fajardo, MD, MBA; K Suzuki, PhD
Time and Place: Mon Nov 26 2018 3:00PM - 3:10PM ROOM S502AB
Session Name: Physics, Applied Science (AS Tomosynthesis X-ray Imaging)

Education Exhibit
Title: Deep Learning Techniques for Automated Segmentation of Diffuse Lung Disease Opacities on CT Images
Authors: S Kido, MD, PhD, Ube, Yamaguchi JAPAN; K Murakami; N Hashimoto; Y Hirano; S Mabu; K Suzuki, PhD
Time and Place: Mon Nov 26 2018 12:15PM - 12:45PM ROOM AI Community, Learning Center
Session Name: Radiology Informatics - Machine Learning and Data Science

– Tuesday –
Scientific Paper
Title: Effect of Simulated Micro-Dose (mD) CT on the Performance of Neural Network Convolution (NNC) Deep-Learning (DL) In Radiation Dose Reduction in Chest CT
Authors: Y Zhao, MSc; A Zarshenas, MSc; T Higaki, Ph.D; K Awai, MD; K Suzuki, PhD
Time and Place: Tuesday Nov 27 2018 11:40AM - 11:50AM ROOM S404CD
Session Name: Physics (Radiation Dose)

Scientific Paper
Title: Virtual Dual-Energy (VDE) Imaging: Separation of Bones from Soft Tissue in Chest Radiographs (CXRs) by Means of Deep Residual Learning (DRL)
Authors: A Zarshenas, MSc, Chicago, IL; Y Wang, BSC,BEng; J Liu, MS; Z Dai, BS; K Suzuki, PhD
Time and Place: Tuesday November 27 3:50 - 4:00 PM ROOM N229
Session Name: Physics

– Wednesday –
Scientific Paper
Title: Blinded Observer Study: “Virtual” Full-Dose (VFD) Digital Breast Tomosynthesis (DBT) Images Derived from Reduced-Dose Acquisitions versus Clinical Full-Dose DBT Images
Authors: J Liu, MS, Chicago, IL; S Qadir; A Zarshenas, MSc; L Yang, MD, PhD; L L Fajardo, MD, MBA; K Suzuki, PhD
Time and Place: Wed Nov 28 2018 10:30AM - 10:40AM ROOM E451A
Session Name: Breast Imaging (Tomosynthesis: Screening Applications)

Education Exhibit
Title: “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)
Authors: A Zarshenas, MSc, Chicago, IL; Y Zhao, MSc; J Liu, MS; T Higaki, PhD; K Awai, MD; K Suzuki, PhD
Time and Place: Wednesday November 28 12:15 - 12:45 PM
Session Name: Station #1

– Thursday –

Scientific Poster
Title: “Virtual” Full-Dose (VFD) Technology: Radiation Dose Reduction in Digital Breast Tomosynthesis (DBT) by Means of Neural Network Convolution (NNC) Deep Learning
Authors: J Liu, MS, Chicago, IL; A Zarshenas, MSc; S Qadir; L Yang, MD, PhD; L L Fajardo, MD, MBA; K Suzuki, PhD
Time and Place: Thu Nov 29 2018 12:15PM - 12:45PM ROOM BR Community, Learning Center
Session Name: Breast Imaging (Artificial Intelligence, Machine Learning and CAD)

Education Exhibit
Title: A Two-Stage Deep-Learning Scheme for Reducing Radiation Dose in Digital Breast Tomosynthesis (DBT)
Authors: J Liu, MS, Chicago, IL; A Zarshenas, MSc; S Qadir; L Yang, MD, PhD; L L Fajardo, MD, MBA; K Suzuki, PhD
Time and Place: Thu Nov 29 2018 12:45PM - 1:15PM ROOM AI Community, Learning Center
Session Name: Radiology Informatics (Machine Learning and Data Science)

– All Day –

Education Exhibit
Title: Historical Overview of Machine Learning (ML) and Deep Learning in Medical Image Analysis - What are the Sources of the Power of Deep Learning?
Authors: K Suzuki, PhD, Chicago, IL; A Zarshenas, MSc; J Liu, MS; Y Zhao, MSc; Y Luo
Category: Radiology Informatics - Machine Learning and Data Science

Education Exhibit
Title: “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)
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Category: Radiology Informatics (Machine Learning and Data Science)
Education Exhibit

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**Authors:** S Kido, MD, PhD, Ube, Yamaguchi JAPAN; K Murakami; N Hashimoto; Y Hirano; S Mabu; K Suzuki, PhD

**Category:** Radiology Informatics - Machine Learning and Data Science