Medical Imaging 2020 RFW Finalists

11312 PHYSICS OF MEDICAL IMAGING:
Paper 11312-47
Phase contrast CT-enabled three-material decomposition in spectral CT imaging
Xu Ji from Univ. of Wisconsin School of Medicine and Public Health (United States)

Paper 11312-78
Method for metal artifact avoidance in C-Arm cone-beam CT
Pengwei Wu from Johns Hopkins Univ. (United States)

11313 IMAGE PROCESSING:
Paper 11313-33
Variational intensity cross channel encoder for unsupervised vessel segmentation on OCT angiography
Yihao Liu from Johns Hopkins Univ. (United States)

Paper 11313-12
Deep multi-task prediction of lung cancer and cancer-free progression from censored heterogenous clinical imaging
Riqiang Gao from Vanderbilt Univ. (United States)

11314 COMPUTER-AIDED DIAGNOSIS:
Paper 11314-2
Microcalcification localization and cluster detection using unsupervised convolutional autoencoders and structural similarity index
Yifan Peng from Duke Univ. School of Medicine (United States) and Tsinghua Univ. (China)

Paper 11314-37
Melanoma detection with electrical impedance spectroscopy and dermoscopy using joint deep learning models
Nils Gessert from Technische Univ. Hamburg-Harburg (Germany)

11315 IMAGE-GUIDED PROCEDURES, ROBOTIC INTERVENTIONS, AND MODELING:
Paper 11315-14
Multi-body registration for fracture reduction and guidance of orthopaedic trauma surgery
Runze Han from Johns Hopkins Univ. (United States)

Paper 11315-98
Renal biopsy under augmented reality guidance: a phantom study
Matthew Pfefferle from The Univ. of Texas at Dallas (United States)

11317 IMAGING INFORMATICS FOR HEALTHCARE, RESEARCH, AND APPLICATIONS:
Paper 11317-70
Brain tumor segmentation using 3D Mask R-CNN for dynamic susceptibility contrast-enhanced perfusion imaging
Jiwoong J. Jeong from Emory Univ. (United States)

Paper 11317-33
Efficacy of radiomics and genomics in predicting TP53 mutations in diffuse lower grade
Zeina Shboul from Old Dominion Univ. (United States)

11318 IMAGING INFORMATICS FOR HEALTHCARE, RESEARCH, AND APPLICATIONS:
Paper 11318-42
An imaging epigenetics study of Schizophrenia with structure-enforced collaborative regression
Yuntong Bai from Tulane Univ. (United States)

Paper 11318-10
SNIPR: Stroke Neuroimaging Phenotype Repository
Hossein Mohammadian from Washington Univ. in St. Louis (United States)

11319 ULTRASONIC IMAGING AND TOMOGRAPHY:
Paper 11319-25
Effects of radiation exposure on dermal collagen: a multi modal approach
Anna Maeva from Univ. College London (United Kingdom)

Paper 11319-4
Triangulation based vector flow imaging with non-steered plane waves for transverse flows
Madhavanunni A.N. from Indian Institute of Technology Palakkad (India)

11320 DIGITAL PATHOLOGY:
Paper 11320-2
Compactness measures of tumor infiltrating lymphocytes in lung adenocarcinoma are associated with overall patient survival and immune scores
Ruiwen Ding from Case Western Reserve Univ. (United States)

Paper 11320-3
Computationally derived image markers for predicting risk of relapse in acute myeloid leukemia patients following bone marrow transplantation
Sara Arabyarmohammadi from Case Western Reserve Univ. (United States)