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Joseph Y. Lo
Taly Gilat Schmidt
Guang-Hong Chen
Editors

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Contents

xvii	<i>Authors</i>
xxv	<i>Conference Committee</i>
xxix	<i>2018 Medical Imaging Award Recipients</i>

Part One

SESSION 1	BREAST IMAGING
10573 02	Comparison of direct-conversion a-Se and CsI scintillator-based CMOS FFDM/DBT flat-panel detectors using an anthropomorphic breast phantom with embedded microcalcification signals [10573-1]
10573 03	A linear systems approach to modeling anatomic noise in digital mammography [10573-2]
10573 04	Towards determination of individual glandular dose [10573-3]
10573 05	Classification of breast microcalcifications using dual-energy mammography [10573-4]
10573 06	Virtual clinical trial of lesion detection in digital mammography and digital breast tomosynthesis [10573-5]
SESSION 2	BREAST PHANTOMS
10573 07	Evaluation of statistical breast phantoms with higher resolution [10573-6]
10573 08	Anthropomorphic breast phantoms for evaluation of FFDM/DBT and breast CT using inkjet printing [10573-7]
10573 09	Improved simulation of Cooper ligaments in breast phantoms [10573-8]
10573 0A	Development of a physical 3D anthropomorphic breast texture model using selective laser sintering rapid prototype printing [10573-9]
10573 0B	Design and validation of biologically inspired spiculated breast lesion models utilizing structural tissue distortion [10573-10]
10573 0C	3D printed anthropomorphic physical phantom for mammography and DBT with high contrast custom materials, lesions, and uniform chest wall region [10573-11]

SESSION 3 TOMOSYNTHESIS	
10573 0D	Geometric calibration for a next-generation digital breast tomosynthesis system using virtual line segments [10573-12]
10573 0E	Stationary digital intraoral tomosynthesis: demonstrating the clinical potential of the first-generation system [10573-13]
10573 0F	Application of three-pass metal artefact reduction to photon-counting breast tomosynthesis [10573-14]
10573 0G	Parallel-shift tomosynthesis for orthopedic applications [10573-15]
10573 0H	Investigating the contributions of anatomical variations and quantum noise to image texture in digital breast tomosynthesis [10573-16]
10573 0I	Initial clinical evaluation of gated stationary digital chest tomosynthesis [10573-17]
10573 0J	Application of neural networks to model the signal-dependent noise of a digital breast tomosynthesis unit [10573-18]
SESSION 4 DETECTORS	
10573 0K	Evaluation of novel multilayer x-ray detector designs using rapid Monte Carlo simulation [10573-19]
10573 0L	Empirical and theoretical examination of the noise performance of a prototype polycrystalline silicon active pixel array [10573-20]
10573 0M	Imaging performance of CMOS and α-Si:H flat-panel detectors for C-arm fluoroscopy and cone-beam CT [10573-21]
10573 0N	X-ray performance of new high dynamic range CMOS detector [10573-22]
10573 0O	Investigation of random gain variations in columnar CsI:TI using single x-ray photon imaging [10573-23]
SESSION 5 CT SYSTEMS AND ALGORITHMS	
10573 0P	CT metal artifact reduction using MR image patches [10573-24]
10573 0Q	Metal artifact reduction for radiation therapy: a simulation study [10573-25]
10573 0R	High-resolution extremity cone-beam CT with a CMOS detector: evaluation of a clinical prototype in quantitative assessment of bone microarchitecture [10573-26]
10573 0S	X-ray cone-beam imaging of the entire spine in the weight-bearing position [10573-27]
10573 0T	Implementation of a piecewise-linear dynamic attenuator [10573-28]

- 10573 0U **Dynamic beam filtering for miscentered patients (First Place Robert F. Wagner All-Conference Best Student Paper Award, First Place Physics of Medical Imaging Student Paper Award) [10573-29]**

SESSION 6 KEYNOTE AND INNOVATIONS IN IMAGING SYSTEMS

- 10573 0V **Clinical applications of optical and optoacoustic imaging techniques in the breast (Keynote Paper) [10573-30]**
- 10573 0W **Design, construction, and initial results of a prototype multi-contrast x-ray breast imaging system [10573-31]**
- 10573 0X **Lung cancer, respiratory 3D motion imaging, with a 19 focal spot kV x-ray tube and a 60 fps flat panel imager [10573-32]**

SESSION 7 PHOTON COUNTING DETECTORS

- 10573 0Z **Count statistics and pileup correction for nonparalyzable photon counting detectors with finite pulse length [10573-34]**
- 10573 10 **Spatio-energetic cross-talk in photon counting detectors: numerical detector model (PcTK) and workflow for CT image quality assessment [10573-35]**
- 10573 11 **A count rate-dependent method for spectral distortion correction in photon counting CT [10573-36]**
- 10573 12 **Frequency dependent DQE of photon counting detector with spectral degradation and cross-talk [10573-37]**

SESSION 8 CT IMAGE QUALITY AND DOSE

- 10573 13 **Joint optimization of fluence field modulation and regularization for multi-task objectives [10573-38]**
- 10573 14 **Can image-domain filtering of FBP CT reconstructions match low-contrast performance of iterative reconstructions? [10573-39]**
- 10573 15 **From patient-informed to patient-specific organ dose estimation in clinical computed tomography [10573-40]**
- 10573 16 **Automated exposure control for CT using a task-based image quality metric [10573-41]**
- 10573 17 **Virtual clinical trial in action: textured XCAT phantoms and scanner-specific CT simulator to characterize noise across CT reconstruction algorithms [10573-42]**

SESSION 9	PHOTON COUNTING IMAGING
10573 18	Ultra-high resolution photon-counting detector CT reconstruction using spectral prior image constrained compressed-sensing (UHR-SPICCS) [10573-43]
10573 19	Photon counting dual energy x-ray imaging at CT count rates: measurements and implications of in-pixel charge sharing correction [10573-44]
10573 1A	Generalized linear-systems framework for performance assessment of energy-resolving photon-counting detectors [10573-45]
10573 1B	Experimental evaluation of the influence of scattered radiation on quantitative spectral CT imaging [10573-46]
10573 1C	Impact of photon counting detector technology on kV selection and diagnostic workflow in CT [10573-47]
10573 1D	Development of a spectral photon-counting micro-CT system with a translate-rotate geometry [10573-48]
SESSION 10	MULTI-ENERGY CT
10573 1E	A general CT reconstruction algorithm for model-based material decomposition [10573-49]
10573 1F	Energy dependence of SNR and DQE for effective monoenergetic imaging in spectral CT [10573-50]
10573 1G	Three-material decomposition in multi-energy CT: impact of prior information on noise and bias [10573-51]
10573 1H	Calcium decomposition and phantomless bone mineral density measurements using dual-layer-based spectral computed tomography [10573-52]
10573 1I	Spectral imaging of iodine and gadolinium nanoparticles using dual-energy CT [10573-53]
SESSION 11	DEEP LEARNING FOR CT
10573 1K	Improve angular resolution for sparse-view CT with residual convolutional neural network [10573-55]
10573 1L	Deep scatter estimation (DSE): feasibility of using a deep convolutional neural network for real-time x-ray scatter prediction in cone-beam CT [10573-56]
10573 1M	Assessment of diagnostic image quality of computed tomography (CT) images of the lung using deep learning [10573-57]
10573 1N	Deep learning angiography (DLA): three-dimensional C-arm cone beam CT angiography generated from deep learning method using a convolutional neural network [10573-58]

10573 1O **Multi-energy CT decomposition using convolutional neural networks** [10573-59]

SESSION 12 NEUROIMAGING

10573 1P **Task-driven optimization of an experimental photon counting detector CT system for intracranial hemorrhage detection** [10573-60]

10573 1Q **Design and evaluation of a diffusion MRI fibre phantom using 3D printing** [10573-61]

10573 1R **Evaluation of the reconstruction-of-difference (RoD) algorithm for cone-beam CT neuro-angiography** [10573-62]

10573 1S **Artifacts reduction in low-contrast neurological imaging with C-arm system** [10573-63]

10573 1T **Time-resolved C-arm cone beam CT angiography using SMART-RECON: quantification of temporal resolution and reconstruction accuracy** [10573-64]

SESSION 13 CARDIOTHORACIC

10573 1U **Realistic lesion simulation: application of hyperelastic deformation to lesion-local environment in lung CT** [10573-65]

10573 1V **CT investigation of patient-specific phantoms with coronary artery disease** [10573-66]

10573 1W **Evaluation of radiation dose reduction via myocardial frame reduction in dynamic cardiac CT for perfusion quantitation** [10573-67]

10573 1X **Stack transition artifact removal for cardiac CT using patch-based similarities** [10573-68]

10573 1Z **Bias and variability in morphology features of lung lesions across CT imaging conditions** [10573-70]

Part Two

SESSION 14 PHASE CONTRAST IMAGING

10573 20 **Monochromatic breast CT: absorption and phase-retrieved images** [10573-71]

10573 21 **Towards a dual phase grating interferometer on clinical hardware** [10573-72]

10573 22 **Joint-reconstruction-enabled data acquisition design for single-shot edge-illumination x-ray phase-contrast tomography** [10573-73]

10573 23 **Two-dimensional single grating phase contrast system** [10573-74]

10573 24 **Examining phase contrast sensitivity to signal location and tissue thickness in breast imaging** [10573-75]

SESSION 15 IMAGE RECONSTRUCTION

- 10573 25 **Fast low-dose compressed-sensing (CS) image reconstruction in four-dimensional digital tomosynthesis using on-board imager (OBI)** [10573-76]
- 10573 26 **Organ-specific context-sensitive CT image reconstruction and display** [10573-77]
- 10573 27 **Sensitivity and specificity of a sparse reconstruction algorithm for superparamagnetic relaxometry (Runner Up Physics of Medical Imaging Student Paper Award)** [10573-78]
- 10573 28 **Content-oriented sparse representation (COSR) denoising in CT images** [10573-79]
- 10573 29 **Prospective image quality analysis and control for prior-image-based reconstruction of low-dose CT** [10573-80]
- 10573 2A **Data-efficient methods for multi-channel x-ray CT reconstruction** [10573-81]

POSTER SESSION: NEW IMAGING SYSTEMS

- 10573 2B **Ex-vivo mice mammary glands characterization using energy-dispersive x-ray diffraction and spacially resolved CdZnTe detectors** [10573-82]
- 10573 2C **Compton scatter tomography with photon-counting detector: a preliminary study** [10573-83]
- 10573 2D **Contrast-enhanced x-ray microscopy of bovine articular cartilage** [10573-84]
- 10573 2E **Towards bimodal intravascular OCT MPI volumetric imaging** [10573-85]
- 10573 2F **Projection tomography in the NIR-IIa window: challenges, advantages, and comparison with classical optical approach** [10573-86]
- 10573 2G **A fully vacuum-sealed miniature x-ray tube with carbon nanotube field emitters for compact portable dental x-ray system** [10573-87]
- 10573 2H **Proton radiography for relativistic proton beam therapy** [10573-88]
- 10573 2I **Transrectal ultrasound-waveform tomography using plane-wave ultrasound reflection data for prostate cancer imaging** [10573-89]
- 10573 2J **Real-time in-situ monitoring of electrotherapy process using electric pulse-induced acoustic tomography (EpAT)** [10573-90]
- 10573 2K **Sensitivity of diffuse correlation spectroscopy to flow rates: a study with tissue simulating optical phantoms** [10573-91]
- 10573 2L **Assessment of image quality parameters of a novel micro-CT system compared to a conventional CT geometry** [10573-92]

- 10573 2M **Use of silicon photomultipliers for detection of Cherenkov light from Compton scattered electrons for medical imaging** [10573-93]
- 10573 2N **High-concentration gadolinium nanoparticles for pre-clinical vascular imaging** [10573-94]
- 10573 2O **Towards non-invasive electrocardiographic imaging using regularized neural networks (Cum Laude Poster Award)** [10573-95]
- 10573 2P **Hyperspectral imaging: comparison of acousto-optic and liquid crystal tunable filters** [10573-96]

POSTER SESSION: QUANTITATIVE IMAGING

- 10573 2R **An investigation into how the radiotherapy dose response of normal appearing brain tissue in glioma patients influences ADC measurements** [10573-98]
- 10573 2T **Quantitative image-based phosphorus-31 MR spectroscopy for evaluating age-based differences in skeletal muscle metabolites** [10573-100]
- 10573 2U **A rapid, robust multi-echo phase unwrapping method for quantitative susceptibility mapping (QSM) using strategically acquired gradient echo (STAGE) data acquisition** [10573-101]

POSTER SESSION: PHANTOMS

- 10573 2V **Anatomical DCE-MRI phantoms generated from glioma patient data** [10573-102]
- 10573 2W **Development of solid water phantom using wax** [10573-103]
- 10573 2X **Development of a novel respiring phantom for motion correction studies in PET imaging** [10573-104]
- 10573 2Y **Scatter profiles of the MIRD phantom with Geant4** [10573-105]
- 10573 2Z **Investigating the depth-sensitivity of laser speckle contrast imaging in flow phantoms** [10573-106]

POSTER SESSION: IMAGE RECONSTRUCTION

- 10573 30 **Noise and spatial resolution characteristics of unregularized statistical iterative reconstruction: an experimental phantom study** [10573-107]
- 10573 31 **Motion compensated reconstruction of the aortic valve for computed tomography (Runner Up Physics of Medical Imaging Student Paper Award)** [10573-108]
- 10573 32 **Real-time image reconstruction for low-dose CT using deep convolutional generative adversarial networks (GANs)** [10573-109]

- 10573 33 **Motion-compensated reconstruction for limited-angle multiphase cardiac CT** [10573-110]
- 10573 34 **Low-dose CT reconstruction with MRF prior predicted from patch samples of normal-dose CT database** [10573-111]
- 10573 35 **A deep learning-enabled iterative reconstruction of ultra-low-dose CT: use of synthetic sinogram-based noise simulation technique** [10573-112]
- 10573 36 **Cone-beam x-ray luminescence computed tomography reconstruction from single-view based on total variance** [10573-113]
- 10573 37 **CPCT-LRTDTV: cerebral perfusion CT image restoration via a low rank tensor decomposition with total variation regularization** [10573-114]
- 10573 38 **Model-based image reconstruction with a hybrid regularizer** [10573-115]
- 10573 39 **Reconstruction of micro CT-like images from clinical CT images using machine learning: a preliminary study** [10573-116]
- 10573 3A **Information theory optimization of acquisition parameters for improved synthetic MRI reconstruction** [10573-117]
- 10573 3B **A novel reconstruction algorithm for arm-artifact reduction in computed tomography** [10573-118]
- 10573 3C **A feasibility study of extracting tissue textures from a previous normal-dose CT database as prior for Bayesian reconstruction of current ultra-low-dose CT images** [10573-119]
- 10573 3D **Low-dose computed tomography image reconstruction via structure tensor total variation regularization** [10573-120]
- 10573 3E **Motion-compensated reconstruction based on filtered backprojection for helical head CT** [10573-121]
- 10573 3F **High-resolution CT image retrieval using sparse convolutional neural network** [10573-122]
- 10573 3G **LdCT-Net: low-dose CT image reconstruction strategy driven by a deep dual network** [10573-124]

POSTER SESSION: ALGORITHMS

- 10573 3H **Motion compensation for non-gated helical CT: application to lung imaging** [10573-125]
- 10573 3I **Use of a CMOS-based micro-CT system to validate a ring artifact correction algorithm on low-dose image data** [10573-126]
- 10573 3J **Windmill artifact reduction based on the combined reconstructed image** [10573-127]
- 10573 3K **Scatter correction for multi-slice CT system** [10573-128]
- 10573 3L **Optimal cardiac phase in prospectively gated axial cardiac CT scans** [10573-129]

- 10573 3M **A denoising auto-encoder based on projection domain for low dose CT** [10573-130]
- 10573 3N **Phantom-based field maps for gradient nonlinearity correction in diffusion imaging** [10573-131]
- 10573 3O **Deep residual learning enabled metal artifact reduction in CT** [10573-132]
- 10573 3P **A deeper convolutional neural network for denoising low-dose CT images** [10573-133]
- 10573 3R **Automated algorithms for improved pre-processing of magnetic relaxometry data** [10573-135]
- 10573 3T **Algorithm enabled TOF-PET imaging with reduced scan time** [10573-137]

POSTER SESSION: CT IMAGE QUALITY AND DOSE

- 10573 3U **Development of a fast, voxel-based, and scanner-specific CT simulator for image-quality-based virtual clinical trials** [10573-138]
- 10573 3V **A rapid GPU-based Monte Carlo simulation tool for individualized dose estimations in CT** [10573-139]
- 10573 3W **How reliable are texture measurements?** [10573-140]
- 10573 3X **Focal spot rotation for improving CT resolution homogeneity** [10573-141]
- 10573 3Y **Technical considerations for automated low-pitch spiral 4D CT scanning protocol selection** [10573-142]
- 10573 3Z **Variability of stenosis characterization: impact of coronary vessel motion in cardiac CT** [10573-143]
- 10573 40 **Diagnostic value of sparse sampling computed tomography for radiation dose reduction: initial results** [10573-144]
- 10573 41 **The effects of tube current modulation on the noise power spectra of patients with different size: consequences for quality monitoring** [10573-145]
- 10573 42 **Evaluation of SparseCT on patient data using realistic undersampling models** [10573-147]
- 10573 43 **Can a 3D task transfer function accurately represent the signal transfer properties of low-contrast lesions in non-linear CT systems?** [10573-148]
- 10573 44 **Accurate centroid determination for evaluating the modulation transfer function with a circular edge in CT images** [10573-150]

Part Three

POSTER SESSION: CONE-BEAM CT

- 10573 45 **Improving image quality of cone-beam CT using alternating regression forest** [10573-153]
- 10573 46 **Spatial resolution and noise prediction in flat-panel cone-beam CT penalized-likelihood reconstruction** [10573-154]
- 10573 47 **Simulating low-dose cone-beam CT: a phantom study** [10573-156]
- 10573 48 **Motion artifacts reduction in 4DCBCT based on motion-compensated robust principal component analysis** [10573-157]
- 10573 49 **Influence of data completion on scatter artifact correction for truncated cone-beam CT data** [10573-158]
- 10573 4A **Optimization-based design for artifact reduction in advanced diagnostic CT** [10573-159]
- 10573 4B **Gantry rotational motion-induced blur in cone-beam computed tomography** [10573-160]
- 10573 4C **Intensity-modulated dental CBCT: noise and absorbed dose study** [10573-161]
- 10573 4D **Investigation of organ dose variation with adult head size and pediatric age for neuro-interventional projections** [10573-162]
- 10573 4E **Image quality, scatter, and dose in compact CBCT systems with flat and curved detectors** [10573-163]

POSTER SESSION: PHASE CONTRAST IMAGING

- 10573 4F **Hairline fracture detection using Talbot-Lau x-ray imaging** [10573-164]
- 10573 4G **Application of a test object free method for determination of the modulation transfer function in grating-based phase-contrast imaging** [10573-165]
- 10573 4H **Minimizing the scatter contribution and spatial spread due to the absorption grating G2 in grating-based phase-contrast imaging** [10573-166]
- 10573 4I **3D imaging of theranostic nanoparticles in mice organs by means of x-ray phase contrast tomography** [10573-167]

POSTER SESSION: MULTI-ENERGY X-RAY AND CT

- 10573 4J **A multi-energy material decomposition method for spectral CT using neural network** [10573-168]
- 10573 4K **A sensitivity analysis on parameters that affect a multi-step material decomposition for spectral CT** [10573-169]

- 10573 4L **Intrinsic limitations on quantification accuracy of dual energy CT at low dose levels** [10573-170]
- 10573 4M **Multiscale dual energy micro-CT for imaging using iodinated and gold nanoparticles** [10573-171]
- 10573 4N **Pseudo dual energy CT imaging using deep learning-based framework: basic material estimation** [10573-172]
- 10573 4P **Algorithmic scatter correction based on physical model and statistical iterative reconstruction for dual energy cone beam CT** [10573-175]
- 10573 4Q **Determination of the limit of detection for iodinated contrast agents with multi-energy computed tomography** [10573-176]
- 10573 4R **Feasibility of material decomposition using non-radioactive Xe for pulmonary function test in spectral x-ray system: a Monte Carlo simulation study** [10573-177]

POSTER SESSION: PHOTON-COUNTING IMAGING

- 10573 4S **Effect of electronic noise and lowest energy threshold selection in photon counting detectors** [10573-178]
- 10573 4T **Impact of radiation dose level on CT number accuracy in photon counting CT (Honorable Mention Poster Award)** [10573-179]
- 10573 4U **Determination of optimal image type and lowest detectable concentration for iodine detection on a photon counting detector-based multi-energy CT system** [10573-180]
- 10573 4V **Cascaded systems analysis of photon-counting field-shaping multi-well avalanche detectors (SWADs)** [10573-181]
- 10573 4W **Increasing the dose efficiency in silicon photon-counting detectors utilizing dual shapers** [10573-182]
- 10573 4X **Spatio-energetic cross-talk in photon counting detectors: N×N binning and sub-pixel masking** [10573-183]
- 10573 4Y **Evaluation of a new photon-counting imaging detector (PCD) with various acquisition modes** [10573-184]
- 10573 4Z **Feasibility study of contrast enhanced digital mammography based on photon-counting detector by projection-based weighting technique: a simulation study** [10573-185]
- 10573 50 **Spectrally varying spatial frequency properties of a small pixel photon counting detector** [10573-186]
- 10573 51 **Multi-energy spectral photon-counting CT in crystal-related arthropathies: initial experience and diagnostic performance in vitro** [10573-187]

- 10573 52 **Spectroscopy with a CdTe-based photon-counting imaging detector (PCD) having charge sharing correction capability** [10573-188]
- 10573 53 **Spectral CT reconstruction with an explicit photon-counting detector model: a one-step approach** [10573-189]
- 10573 54 **Development of virtual monochromatic imaging technique with spectral CT based on a photon-counting detector** [10573-190]
- 10573 55 **Simulation study of scatter correction in photon counting CT** [10573-191]

POSTER SESSION: BREAST IMAGING

- 10573 56 **Characterization of adipose compartments in mastectomy CT images** [10573-192]
- 10573 57 **Binary implementation of fractal Perlin noise to simulate fibroglandular breast tissue** [10573-193]
- 10573 58 **OpenVCT: a GPU-accelerated virtual clinical trial pipeline for mammography and digital breast tomosynthesis** [10573-194]
- 10573 59 **Analysis of volume overestimation artifacts in the breast outline segmentation in tomosynthesis** [10573-195]
- 10573 5A **Simulation of breast compression using a new biomechanical model** [10573-196]
- 10573 5B **Multi-layer dual-energy detectors with fiber optic faceplate** [10573-197]
- 10573 5C **Improvement of image quality and density accuracy of breast peripheral area in mammography** [10573-198]
- 10573 5D **Validation of noise estimation for a clinical contrast-to-noise ratio for digital mammographic imaging** [10573-199]
- 10573 5E **Validation and application of a new image reconstruction software toolbox (TIGRE) for breast cone-beam computed tomography** [10573-200]
- 10573 5F **Breast density assessment: image feature extraction and density classification with machine intelligence** [10573-201]
- 10573 5G **Methodology for the objective assessment of lesion detection performance with breast tomosynthesis and digital mammography using a physical anthropomorphic phantom** [10573-202]
- 10573 5H **Laboratory designs and validations of a glandularity-adjustable dual-purpose breast tissue phantom** [10573-203]
- 10573 5I **Comparison of three breast imaging techniques using 4-AFC human observation study** [10573-204]

- 10573 5J **Breast imaging using micro-resolution field emission x-ray system with carbon nanotube emitter** [10573-205]
- 10573 5K **A proposed new image display method with high contrast-to-noise ratio using energy resolved photon-counting mammography with a CdTe series detector** [10573-206]
- 10573 5L **Developing a unique portable device to non-invasively detect bio-electrochemical characteristics of human tissues** [10573-207]

POSTER SESSION: TOMOSYNTHESIS

- 10573 5M **The first freely available open source software package for performing 3D image reconstruction for digital breast tomosynthesis** [10573-208]
- 10573 5N **In-plane MTF measurement using sphere phantoms for step-and-shoot mode and continuous mode digital tomosynthesis systems** [10573-209]
- 10573 5O **Quantitative lung nodule detectability and dose reduction in low-dose chest tomosynthesis** [10573-210]
- 10573 5P **Development of respiratory-correlated 4D digital tomosynthesis imaging technique for image-guided radiation therapy** [10573-211]
- 10573 5Q **Development of a next generation tomosynthesis system** [10573-212]
- 10573 5R **Optimization of shutter scan parameters in digital tomosynthesis system** [10573-213]
- 10573 5S **A framework for optimization of digital tomosynthesis imaging configurations** [10573-214]
- 10573 5T **Comparison study of task-based detectability index according to angular distribution in a prototype breast tomosynthesis** [10573-215]

POSTER SESSION: DETECTORS

- 10573 5U **Dual screen sandwich configurations for digital radiography** [10573-216]
- 10573 5V **Latest advancements in state-of-the-art aSi-based x-ray flat panel detectors** [10573-217]
- 10573 5W **Increased temporal resolution of amorphous selenium detector using preferential charge sensing approach** [10573-218]
- 10573 5X **A novel radiation imaging detector with proportional charge gain (Honorable Mention Poster Award)** [10573-220]
- 10573 5Y **Photon counting performance of amorphous selenium and its dependence on detector structure** [10573-221]
- 10573 5Z **Detector output prediction for CT detector array manufacturing** [10573-222]

POSTER SESSION: RADIOGRAPHY AND FLUOROSCOPY

- 10573 60 **Developing a database of 3D scattered radiation distributions for a C-arm fluoroscope as a function of exposure parameters and phantom [10573-223]**
- 10573 61 **Precision analysis of the noise power spectrum estimate in radiography imaging [10573-224]**
- 10573 62 **Oversampling digital radiography imaging based on the 2x2 moving average filter for mammography detectors [10573-225]**
- 10573 63 **Calculation of forward scatter dose distribution at the skin entrance from the patient table for fluoroscopically guided interventions using a pencil beam convolution kernel [10573-226]**
- 10573 65 **Initial investigations of a special high-definition (Hi-Def) zoom capability in a new detector system for neuro-interventional procedures [10573-228]**
- 10573 66 **Evaluation of methods of displaying the real-time scattered radiation distribution during fluoroscopically guided interventions for staff dose reduction [10573-229]**
- 10573 67 **Anti-scatter grid artifact elimination for high-resolution x-ray imaging detectors without a prior scatter distribution profile [10573-230]**
- 10573 68 **Use of high purity aluminum filter with different processing methods in the DQE measurement [10573-231]**
- 10573 69 **Quantitative analysis of age-dependent backscatter factor (BSF) in x-ray examinations with a Monte Carlo method using XCAT phantoms [10573-232]**

Authors

Numbers in the index correspond to the last two digits of the seven-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first five digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Abadi, Ehsan, 15, 17, 1U, 3U, 3V, 3W
Abdlaty, Ramy, 2P
Abdurakhimova, Dilbar, 18, 1C, 4U
Abu-Sardanah, Serene O., 1Q
Acciavatti, Raymond J., 0D, 59, 5Q
Adamak, M., 5Z
Aghaei, Faranak, 5L
Ahn, Chul Kyun, 35
Ahn, Jung Sun, 5J
Alessio, Adam M., 1W
Alnowami, Majdi, 0B
Anastasio, Mark A., 22
Ancora, D., 2F
Anderson, Adam W., 3N
Anderson, Nigel G., 51
Anderson, W. S., 0M
Angel, Erin, 1V
Anton, Gisela, 21, 4F
Antonuk, Larry E., 0L
Arfelli, Fulvia, 20
Auweter, S., 4F
Avanaki, Ali N., 06
Aygun, N., 1R, 4E
Bacher, Guillaume, 5V
Badano, Aldo, 5M
Badea, C. T., 1D, 1I, 1O, 2A, 4M
Baek, Jongduk, 3P, 5N
Bai, Ti, 3D, 3M, 4P
Bakic, Predrag R., 06, 09, 0J, 56, 58, 59
Barber, W., 1D
Baron, Corey, 1Q
Bartl, P., 4F
Barufaldi, Bruno, 06, 58
Baum, Thomas, 1H
Bayerlein, Reimund, 2M
Becce, Fabio, 51
Bednarek, Daniel R., 3I, 4B, 4D, 4Y, 52, 60, 63, 65, 66, 67
Beers, Andrew, 2V
Benedict, Stanley, 0X
Bennett, N. Robert, 0T
Bergner, Frank, 0F, 40
Berker, Yannick, 1L
Berman, Benjamin P., 2W
Betraoui, Farid, 5V
Bhusal, Narayan, 23
Bialkowski, J., 0M
Bian, Zhaoying, 3G, 4N
Bindschadler, Michael, 1W
Bippus, Rolf, 31, 3H, 40
Blaber, Justin, 3N
Blanchon, David, 5V
Bonazza, Deborah, 20
Boone, John, 0X
Booth, Thomas C., 2R
Bopp, Johannes, 21
Borges, Lucas R., 0J
Bosmans, Hilde, 41, 44, 4G, 4H
Bosset, Bruno, 5V
Boyd, Douglas, 0X
Boyd, Steven K., 2D
Branch, Kelley R., 1W
Bravin, A., 4I
Brazil, Lucy, 2R
Brehler, M., 0R
Brendel, Bernhard, 1B
Brito, Fabrício A., 0J
Brombal, Luca, 20
Brönnimann, Christian, 11
Brown, James, 2V
Brown, K. M., 3H
Brück, Rainer, 2M
Bruesewitz, Michael, 1C
Brun, F., 4I
Buğrahan Oktay, M., 0S, 2Y
Bukreeva, I., 4I
Butler, Leslie G., 23
Cai, JianMei, 3M
Camlica, Ahmet, 5W, 5X
Cao, Q., 0R
Carton, Ann-Katherine, 0A, 5A
Catalano, Marco, 40
Catenacci, Matthew, 0C
Cederström, Björn, 0F
Cedola, A., 4I
Chai, Lucy, 5Q
Chandrasekaran, Shivkumar, 2O
Chang, Ken, 2V
Chang, Shaojie, 4P
Chang, Yongjin, 3E
Chang, Yu-Bing, 1S
Chao, Zhen, 5R
Chen, Baiyu, 42
Chen, Biao, 5F
Chen, Bo, 3C
Chen, Buxin, 3T, 4A
Chen, Guang-Hong, 0W, 1N, 1P, 1T, 30, 4L, 4T

Chen, Shuqing, 26
 Chen, Xi, 2C, 4P
 Chen, Xiaogang, 3J, 3M
 Chen, Xinyuan C., 07
 Chen, Yang, 3D
 Chen, Yen-Wei, 39
 Chen, Ying, 5S
 Chen, Yong, 5H
 Chen, Yongsheng, 2U
 Chen, Yujia, 22
 Cheng, Haitao, 2C
 Choi, Chloe J., 0D, 5Q
 Choi, Chloe, 5I
 Choi, Kihwan, 32
 Choi, Seungyeon, 4Z, 5O, 5R, 5T
 Choi, Sunghoon, 25, 5O, 5R, 5T
 Choi, Young-Wook, 5T
 Choi, Yuna, 54
 Chung, Jonathan H., 1M
 Clark, D. P., 1D, 1I, 1O, 2A, 4M
 Clarke, Geoffrey D., 2T
 Cockmartin, Lesley, 4I
 Cody, Dianna D., 4Q
 Colbeth, Richard E., 0N
 Combes, Christele, 5I
 Contillo, Adriano, 20
 Cooke, Victoria, 0B
 Coolen, Johan, 4I
 Cressman, Erik, 4Q
 Crotty, Dominic J., 16
 Cruje, Charmainne, 2N
 Cruz-Bastida, Juan P., 4L, 4T
 Cunningham, Ian, 4V
 Curran, Walter J., 3F, 45
 Daerr, Heiner, 1B
 Dalbeth, Nicola, 5I
 Daly, Megan, 0X
 Dance, David R., 0B
 Dang, Hao, 29, 3O
 Dang, Nicklas, 2J
 Dangelmaier, Julia, 40
 Danielsson, Mats, 0Z, 4W
 Das, Mini, 0H, 24, 4K, 50
 De La Rochefoucauld, O., 4I
 De Man, Bruno, 0Q
 DeFronzo, Ralph A., 2T
 Delogu, Pasquale, 20
 Deng, Shenweng, 2T
 Devauges, Viviane, 5A
 Dey, Joyoni, 23
 Dhabaan, Anees, 45
 Dhurjaty, Sreeram, 5L
 Diaz, Oliver, 5E, 5I
 Dickmann, Jannis, 1I
 Divel, Sarah E., 14
 Donato, Sandro, 20
 Dong, Xue, 3F
 Dorn, Sabrina, 26
 Dow, Scott, 0K
 Drangova, Maria, 2N
 Duan, Jiayu, 3M
 Duan, Xinhui, 4Q
 Ducourant, Thierry, 5V
 Dustler, Magnus, 04, 57
 Eben, Jeffrey E., 5Q
 Edmund, Jens M., 0P
 Ehn, Sebastian, 1H
 Elangovan, Premkumar, 0B, 5E, 5I
 El-Mohri, Youcef, 0L
 Elss, T., 3I
 Ely, Austin, 0X
 Eom, Jisoo, 4R, 54, 5P
 Erhard, Klaus, 0F, 1B
 Eriksson, Charlotte, 19
 Espig, Kathryn S., 06
 Espy, Michelle A., 2H
 Faiz, Rowzat, 2J
 Fan, Jiahua, 16
 Fang, Qiyin, 2P
 Feldman, Vera, 2B
 Feng, Chuqing, 4J
 Ferrero, Andrea, 47, 4U
 Fetterly, Kenneth A., 47, 4U
 Fieselmann, A., 0S
 Filhol, Odile, 2B
 Fingerle, Alexander A., 1H, 40
 Fleck, Ivor, 2M
 Foletta, Kyle, 0X
 Foos, D. H., 1R, 4E
 Forbes, F., 53
 Förnvik, Daniel, 04
 Förnvik, Hannie, 04, 57
 Fournie, Eric, 1X
 Fournier, C., 53
 Fratini, M., 4I
 Fredette, Nathaniel R., 4K
 Freeman, Matthew S., 2H
 Freestone, Steven, 0N
 Freudenberger, J., 4F
 Fu, Lin, 0Q
 Fu, Wanyi, 15, 3V
 Fuentes, David, 27, 3A, 3R
 Fulco, Alexandro, 4I
 Gallersdörfer, Michael, 2I
 Gang, Grace J., 0U, 13, 29, 46
 Ganguly, Arundhuti, 0N
 Gao, Kai, 2I
 Gao, Peng, 34, 36
 Gao, Yongfeng, 3C
 Garrett, John, 0W, 1T, 30
 Gauer, Tobias, 3Y
 Ge, Yongshuai, 0W
 Gehm, Michael E., 0C
 Geith, T., 4F
 Gersing, Alexandra S., 1H
 Gerstner, Elizabeth, 2V
 Gessert, Nils, 2E
 Ghaghada, K., 1I
 Ghamraoui, Bahaa, 05, 08, 2W, 5G
 Ghose, S. K., 0O

Giantsoudi, Drosoula, 0Q
 Gibas, Christian, 2M
 Giger, Maryellen, 1M
 Gilat Schmidt, Taly, 16
 Gillies, Elizabeth R., 2N
 Given-Wilson, Rosalind M., 0B
 Gjestebj, Lars, 0Q
 Gkoumas, Spyridon, 11
 Glick, Stephen J., 02, 05, 08, 5G
 Go, Eunsol, 2G
 Goldan, Amir H., 4V, 5Y
 Golosio, Bruno, 20
 Gomez-Cardona, Daniel, 30, 4T
 Graff, Christian G., 08, 5G
 Grant, Byron R., 1M
 Gräser, Matthias, 2E
 Grasruck, Michael, 3K
 Grass, M., 31, 3H
 Griesse, Florian, 2E
 Grönberg, Fredrik, 0Z
 Guerrero, Igor, 0J
 Gunnell, E. Taylor, 0I
 Guo, Chao, 4D, 60, 63, 66
 Guo, Yuran, 5H
 Gupta, Amar Prasad, 5J
 Ha, Seungwoo, 4C
 Haacke, E. Mark, 2U
 Hagio, Tomoe, 2W
 Halaweish, Ahmed, 1C
 Ham, Kyungmin, 23
 Hansen, Colin B., 3N
 Harrawood, Brian, 17, 3U
 Hashimoto, D., 5K
 Hauke, C., 4F
 Hayes, John, 30, 4T
 Hayward, Joseph, 2P
 Hazemann, Jean-Louis, 2B
 Hazle, J. D., 27, 3R
 He, Ji, 3G, 4N
 Heese, Harald S., 0F
 Hellbach, K., 4F
 Heo, Changyong, 35
 Heo, Sung Kyn, 5B
 Herbst, M., 0S
 Higginbotham, David, 06, 58
 Higgins, Kristin, 3F, 45
 Highnam, Ralph P., 5D
 Hill, Melissa L., 5D
 Hilton, Robert, 0E
 Hinaman, J., 65
 Hoeschen, C., 2L
 Hofmann, Christian, 3Y
 Holbrook, M., 1D, 1I, 1O, 4M
 Holdsworth, David W., 2N
 Hondongwa, Donald, 0N
 Howansky, Adrian, 0K, 0O, 5U
 Hoye, Jocelyn M., 1U, 1Z, 3W
 Hsieh, Scott S., 0T, 14, 25, 3X, 5O
 Huang, Lianjie, 2I
 Huang, Yunsong, 2I
 Huh, Yoonsuk, 69
 Hunter, David M., 0A
 Hussain, Uzair, 1Q
 Hwang, Ken-Pin, 3A
 Ichikawa, Katsuhiko, 3B
 Iida, Y., 5K
 Ikejimba, Lynda C., 02, 08, 5G
 Imran, Abdullah-Al-Zubaer, 56
 Inscoc, Christina R., 0E, 0I
 Ionita, Ciprian N., 1V, 3I
 Islam, Naveed, 63
 Ito, F., 5K
 Ivanc, T., 31
 Iwamoto, Yutaro, 39
 Iyer, Vijay, 1V
 Jacobsen, Megan C., 4Q
 Jacobson, M. W., 0M
 Jang, Hyunsuk, 5X
 Jang, Seokhwan, 3E
 Jang, Wooyoung, 54
 Jennings, Robert J., 2W
 Jeon, Hyojin, 2G
 Jeong, Jin-Woo, 2G
 Ji, Xu, 0W, 1P
 Jia, Xun, 33
 Jin, Hyeongmin, 35
 Jin, Mingwu, 33
 Jin, Yannan, 0Q
 Jing, Zhenxue, 5F
 Jo, Byungdu, 4Z, 5C
 Jo, JaeMoon, 69
 Jung, Jaeik, 5J
 Jung, Jinwook, 54
 Kabus, S., 3H
 Kachelrieß, Marc, 11, 1L, 1X, 26, 49
 Kadom, Nadja, 28
 Kaffes, C., 3R
 Kalpathy-Cramer, Jayashree, 2V
 Kang, Jun-Tae, 2G
 Kang, Kejun, 1K, 4J
 Kang, Sooncheol, 4R, 54, 5P
 Kang, Yan, 2U
 Kao, Chien-Min, 3T
 Kapadia, Anuj J., 15, 17, 3U, 3V
 Kappler, Steffen, 10, 4X
 Karim, Karim S., 5W, 5X
 Kavuri, Amar, 0H, 4K
 Kawashima, Hiroki, 3B
 Kazemi, Shada, 5E, 5I
 Kemp, Katherine, 5G
 Khan, Ali R., 1Q
 Khan, Nabeel, 5D
 Khobragade, P., 16
 Kilian-Meneghin, J., 66
 Kim, Burnyoung, 4R, 54, 5P
 Kim, Byeongjoon, 3P
 Kim, Dohyeon, 4Z, 5C, 5R, 5T
 Kim, Dong Sik, 61, 62
 Kim, Dong Woon, 5B
 Kim, Eun, 62

Kim, Hee-Joung, 25, 4Z, 5C, 5O, 5R, 5T
 Kim, Ho Kyung, 4C, 5B
 Kim, Hyemi, 4Z, 5C
 Kim, Jaehyuk, 69
 Kim, Jae-Woo, 2G
 Kim, Jinwoo, 4C
 Kim, Jong Hyo, 35
 Kim, Jung-Ha, 69
 Kim, Jung-Min, 69
 Kim, Junwoo, 5B
 Kim, Nam Guk, 5J
 Kim, Namho, 0X
 Kim, Seung Hoon, 5J
 Kim, Seungeon, 3E
 Kim, Sung Won, 32
 Kim, Sunghee, 2G
 Kimpe, Tom R. L., 06
 Kirkbride, Tracy E., 51
 Kirschke, Jan S., 1H
 Klausz, Remy, 0A
 Kleinszig, G., 0M
 Knaup, Michael, 26
 Knoll, Florian, 42
 Knopp, Tobias, 2E
 Ko, Beos-seok, 5J
 Kobayashi, Satoshi, 3B
 Kobe, Elizabeth, 5Q
 Kodera, Y., 5K
 Kojima, Shinichi, 55
 Kolliatsos, V. E., 4E
 Konieczek, Martin, 0L
 Kopp, Felix K., 1H, 40
 Koshiba, Y., 5K
 Koyama, S., 5K
 Krebs, J., 4B, 4Y, 52, 65
 Kumar, K., 2L
 Kuntz, Jan, 49
 Kuperavage, Adam, 09
 Lalonde, Robert, 03
 Landman, Bennett A., 3N
 Lång, Kristina, 57
 Latus, Sarah, 2E
 Layman, Rick R., 4Q
 Le Guevel, X., 4I
 Lebedev, Sergej, 1X
 Lee, Chang-Lae, 54
 Lee, Changwoo, 5N
 Lee, Denny L., 5W, 5X
 Lee, Donghoon, 4Z, 5O, 5R, 5T
 Lee, Duhgoon, 54
 Lee, Eunae, 6I
 Lee, Haeng-hwa, 5C, 5O, 5R, 5T
 Lee, Hua, 2O
 Lee, Jeong-Woong, 2G
 Lee, John H., 1M
 Lee, Minjae, 4Z, 5C
 Lee, Okkyun, 10, 4X
 Lee, Seungwan, 4R, 54, 5P
 Lee, Yueh Z., 0I
 Leghissa, M., 4F
 Lei, Yang, 3F, 45
 Lell, Micheal M., 26
 Leng, Shuai, 18, 1C, 4U
 Lewis, Cale, 24
 Lewis, E., 2X
 Li, Anne M., 0C
 Li, Ke, 0W, 1P, 1T, 4L, 4T
 Li, Lihong, 3C
 Li, Qin, 2W
 Li, Sui, 4N
 Li, Yinsheng, 1N, 1T
 Li, Yuhua, 5H
 Li, Zhijin, 0A, 5A
 Liang, Albert K., 0L
 Liang, Kaichao, 1K
 Liang, Zhengrong, 34, 36, 3C
 Liao, Yuting, 4N
 Lim, Joon Seok, 32
 Lin, Cheng Ting, 29
 Lindenberg, Kai, 49
 Liu, Hong, 5H
 Liu, Saifeng, 2U
 Liu, Tian, 3F, 45
 Liu, Tianshuai, 34, 36
 Liu, Yan, 4A
 Lo, Joseph Y., 07, 0C, 5G
 Lohstroh, Annika, 5E, 5I
 Longo, E., 4I
 Longo, Renata, 20
 Lu, Hongbing, 34, 36, 3C
 Lu, Jianping, 0E, 0I
 Lu, Y., 5Z
 Lubinsky, A. R., 0O, 5U
 Luci, Jeffrey J., 3N
 Luckner, Christoph, 0G
 Ludwig, Veronika, 2I
 Lundqvist, Mats, 0F
 Ma, Jianhua, 37, 3C, 3G, 4N
 Mackenzie, Alistair, 5D
 Madesta, Frederic, 3Y
 Mageras, Gikas, 0X
 Magnelind, Per E., 2H
 Maidment, Andrew D. A., 06, 09, 0D, 0J, 58, 59, 5Q
 Maier, Andreas, 0G, 21, 26
 Maier, Joscha, 11, 1L, 26, 49
 Mainprize, James G., 0A
 Makeev, Andrey, 02, 05, 08
 Manak, Joe, 1S
 Mao, Andrew, 0U
 Mao, Hui, 3F
 Marcos-Vidal, A., 2F
 Mariam, Fesseha G., 2H
 Marin, Daniele, 3W
 Marshall, Nicholas W., 41, 44, 4G, 4H
 Massimi, L., 4I
 Mathieu, K., 27, 3R
 Matsubara, Kosuke, 3B
 Matyas, John R., 2D
 Mawdsley, Gordon E., 0A

May, Matthias, 26
 McCollough, Cynthia H., 18, 1C, 1G, 4U
 McKeown, Dakota, 4V
 McQuaid, S., 2X
 Mei, Kai, 1H, 40
 Meinel, F. G., 4F
 Meng, Deyu, 37
 Merrill, Frank E., 2H
 Mertelmeier, Thomas, 0G, 0S, 4F
 Mettievier, Giovanni, 20
 Michalak, Gregory, 4U
 Mielke, Matthias, 2M
 Mihalas, Elena, 0B
 Milioni de Carvalho, Pablo, 5A
 Mîra, Anna, 5A
 Mirniaharikandehei, Seyedeh-nafiseh, 5L
 Mitchell, Drew, 3A
 Mitsouras, Dimitrios, 1V
 Möddel, Martin, 2E
 Mol, Andre, 0E
 Molloy, Sabee, 1V
 Mollov, Ivan P., 0N
 Montoya, Juan C., 1N
 Moore, John, 1Q
 Moore, William H., 3C
 Morlock, M., 31
 Mou, Xuanqin, 2C, 3D, 3J, 3M, 48, 4P
 Mow, M., 1R
 Muckley, Matthew, 42
 Mueller, B. H., 2L
 Muenzel, Daniela, 1H, 40
 Muller, Serge, 0A, 5A
 Nakajima, A., 5K
 Nanke, R., 4F
 Newton, Allen T., 3N
 Nielsen, Jonathan S., 0P
 Nisbett, William H., 0H
 Nishiki, Masayuki, 68
 Noël, Peter B., 1H, 40
 Nolan, Margaret, 5Q
 Noo, Frédéric, 0S, 2Y, 38
 O'Donnell, Thomas, 42
 Okada, M., 5K
 Okamoto, Gary, 0X
 Oliva, Piernicola, 20
 Omoumi, Farid, 5H
 Osgood, G. M., 0M
 Otazo, Ricardo, 42
 Otte, Christoph, 2E
 Paganetti, Harald, 0Q
 Paik, Sanghyun, 5J
 Pan, Xiaochuan, 1S, 3T, 4A
 Park, Byungjun, 35
 Park, Chan Soo, 24
 Park, Hunkuk, 5J
 Park, Hyesuk, 69
 Park, Jiwoong, 5B
 Park, Sora, 2G
 Park, Su-Jin, 69
 Partain, Larry, 0X
 Paulus, Caroline, 2B
 Payan, Yohan, 5A
 Pelc, Norbert J., 0T, 12, 14, 1A, 1F, 4S
 Pelzer, Georg, 21
 Peng, Jiangjun, 37
 Peplinski, J., 5Z
 Perkins, Amy E., 3T
 Persson, Mats, 12, 1A
 Peters, Terry, 1Q
 Petersilka, Martin, 3K
 Petkovic, Marko D., 09
 Petrick, Nicholas A., 2W
 Pfeiffer, Franz, 1H
 Pham, Hai, 0X
 Pierpaoli, Carlo, 3N
 Platin, Enrique, 0E
 Podgorsak, Alexander R., 3I
 Pokrajac, David D., 09, 56
 Polster, Christoph, 10, 4X
 Pomeroy, Marc, 3C
 Ponjevic, Dragana, 2D
 Prionas, Stavros, 0X
 Puett, Connor, 0E, 0I
 Ra, Jong Beon, 3E
 Radicke, M., 4F
 Radzicki, Vincent, 2O
 Raja, Aamir Y., 51
 Rajagopal, Abhejit, 2O
 Rajagopal, Jayasai, 07
 Rajbhandary, Paurakh L., 12, 1A, 1F, 4S
 Rajendran, Kishore, 18
 Rana, R., 67
 Rand, Roy, 0X
 Rebuffel, V., 53
 Reiser, Ingrid, 1M, 59
 Reiser, M., 4F
 Ren, Liqiang, 1G
 Ren, Yinhao, 07
 Richards, Taylor, 3Z
 Riess, Christian, 21
 Rigon, Luigi, 20
 Ripley, Erika M., 2T
 Ripoll, J., 2F
 Ritschl, Ludwig, 0G, 0S, 4F
 Robins, Marthony, 1Z, 3W, 43
 Rodesch, Pierre-Antoine, 53
 Rodríguez-Pérez, S., 4H
 Rodríguez-Ruiz, Alejandro, 59
 Rogers, Baxter P., 3N
 Rohr, Pierre, 5V
 Rokni, Michal, 1B
 Rong, Junyan, 34, 36
 Roos, P. Gerhard, 0N
 Rose, Sean, 3T
 Rosen, Bruce, 2V
 Rossman, Andrea, 0C
 Rozas, David, 3L
 Rudin, Stephen, 3I, 4B, 4D, 4Y, 52, 60, 63, 65, 66, 67
 Rummeny, Ernst J., 1H, 40

Rupcich, Franco, 16
 Ruth, Chris, 5F
 Rybicki, Frank J., 1V
 Ryu, Jehwang, 5J
 Saathoff, Thore, 2E
 Saeid Nezhad, N., 2L
 Sahli, Samir, 2P
 Salad, Jesse, 08, 5G
 Samant, Pratik, 2J
 Samei, Ehsan, 0C, 15, 17, 1U, 1Z, 3U,
 3V, 3W, 3Z, 43
 Sancey, L., 4I
 Sasaki, M., 5K
 Sato, Yoshinobu, 39
 Sauer, Thomas J., 07, 0C, 1U, 1Z
 Sauter, Andreas P., 40
 Sawall, Stefan, 11, 1L, 26, 49
 Schäfer, D., 3H
 Schafer, Sebastian, 1T
 Schellingerhout, Dawid, 4Q
 Schlaefler, Alexander, 2E
 Schlemmer, Heinz-Peter, 26
 Schlüter, Matthias, 2E
 Schmitt, H., 3I
 Schornak, Rachel, 4U
 Schueler, Beth, 47
 Schwaiger, Benedikt J., 1H, 40
 Scott-Jackson, W., 2X
 Scuffham, J., 2X
 Sechopoulos, Ioannis, 59
 Segars, William Paul, 07, 15, 17, 3U, 3V, 3Z
 Seifert, Maria, 2I
 Sellner, S., 4F
 Sengupta, Aunnasha, 5M
 Sengupta, Dipanjan, 2V
 Seo, Chang-Woo, 25, 5O
 Seppi, Edward, 0X
 Sesselmann, Stefan, 0G
 Setlur Nagesh, S. V., 3I, 65, 67
 Shankar, A., 4B, 4Y, 52, 65
 Shapiro, Edward, 0X
 Sharma, Diksha, 5M
 Sharma, Shobhit, 15, 3V
 Shaughnessy, Charles, 3L
 Shepard, Lauren M., 1V
 Sheth, N. M., 0M
 Shi, Yongyi, 3D, 3J
 Shim, Hyunjung, 3P
 Shim, Hyunsuk, 3F, 45
 Shin, Choul Woo, 62
 Shiraz Bhruwani, M. M., 0R
 Shuaib, Haris, 2R
 Shunhavanich, Picha, 0T
 Shyr, William, 0U
 Siddiqui, Adnan H., 1S
 Sidky, Emil Y., 1S, 3T, 4A
 Siewerdsen, Jeffrey H., 0M, 0R, 1E, 1R,
 29, 46, 4E
 Simak, Tom, 0N
 Simons, David, 26
 Sisniega, A., 0R, 1R, 4E
 Sjölin, Martin, 0Z, 4W
 Smith, Frank, 5S
 Sodickson, Aaron, 42
 Sodickson, Daniel, 42
 Soellradl, S., 0M
 Solomon, Justin B., 0C, 1U, 1Z, 3W, 43
 Sommer, Kelsey N., 1V
 Son, Junyoung, 5O
 Song, Samuel, 0X
 Song, Yoon-Ho, 2G
 Sossin, Artur, 0F, 1B
 Sothmann, Thilo, 3Y
 Sovizi, J., 27, 3R
 Stamp, Lisa K., 5I
 Stannigel, Kai, 49
 Stavro, Jann, 4V, 5Y
 Stayman, J. Webster, 0R, 0U, 13, 1E, 1R,
 29, 46, 4E
 Stefan, W., 27, 3R
 Stevens, R., 1R, 4E
 Stewart, Alexander, 19
 Stierstorfer, Karl, 10, 1X, 3K, 4X
 Stratis, Andreas, 44
 Strother, Charles, 1N, 1T
 Sturgeon, Gregory M., 07
 Sugano, Nobuhiko, 39
 Sun, Jian, 3G
 Sundberg, Christel, 4W
 Sussman, Marc C., 29
 Sutter, S. M., 4F
 Suzuki, Katsuhiko, 0O
 Suzuki, R., 5K
 Svensson, Christer, 4W
 Tabary, Joachim, 2B
 Taguchi, Katsuyuki, 10, 4X
 Taibi, Angelo, 20
 Takahashi, Isao, 55
 Takao, Masaki, 39
 Takata, Tadanori, 3B
 Takeda, Kyohei, 39
 Tang, Xiangyang, 28, 45
 Tanguay, Jesse, 03, 4V
 Tao, Shengzhen, 18
 Thompson, Richard, 4A
 Thran, Axel, 1B, 3H
 Thrower, S. L., 27, 3R
 Thüring, Thomas, 1I
 Tian, Yi, 3K
 Tillement, O., 4I
 Tilley, Steven, 1I, 0R, 1E
 Timberg, Pontus, 04
 Tingberg, Anders, 04
 Tischenko, O., 2L
 Tognina, Carlo, 0X
 Tripathy, Devjit, 2T
 Tromba, Giuliana, 20
 Troville, Jonathan, 63
 Tung, Chi-Hua, 3T
 Tupa, Dale, 2H

Uemura, Keisuke, 39
 Ulker Karbeyaz, Basak, 3L
 Ullberg, Christer, 19
 Urech, Mattias, 19
 Van Leemput, Koen, 0P
 Vaquero, J. J., 2F
 Vasquez, Juan A., 2T
 Vent, Trevor L., 0D, 59, 5Q
 Verburg, Joost, 0Q
 Verdun, Francis R., 51
 Verger, Loïck, 2B, 53
 Vespucci, Stefano, 24, 50
 Vieira, Marcelo A. C., 0J
 Vignero, J., 4G, 4H
 Vignolle, Jean-Michel, 5V
 Vijayan, Sarath, 4D, 60, 63
 Vilgrain, Isabelle, 2B
 Viry, Anais, 51
 Vishwanath, Karthik, 2K, 2Z
 Vogt, Sebastian, 0M, 0S
 Wallis, Matthew G., 0B
 Waltrich, Nadine, 49
 Wang, Ge, 0Q
 Wang, Jia, 14
 Wang, Kai, 2C
 Wang, Kaier, 5D
 Wang, Tonghe, 45
 Wang, W., 46
 Wang, X., 1R, 4E
 Wang, Yang, 3K
 Wang, Yao, 37
 Wang, Yongbo, 3G, 4N
 Weaver, Jayse, 4U
 Weber, Niclas, 19
 Weber, T., 4F
 Weil, Michael, 0X
 Weinstein, Susan P., 06
 Weiss, C. R., 0M
 Welch, E. Brian, 3N
 Wells, Kevin, 0B, 2X, 5E, 5I
 Werner, René, 3Y
 Wikner, Jacob, 4W
 Wilde, Carl H., 2H
 Wiley, Benjamin J., 0C
 Wilkinson, Louise, 0B
 Willke, Theodore L., 2V
 Wilson, Michael F., 1V
 Wirth, Thibaut, 5V
 Wu, Di, 5H
 Wu, Junfeng, 3D
 Wu, P., 1R, 4E
 Xia, Dan, 1S, 4A
 Xiang, D., 5Z
 Xiang, Liangzhong, 2J, 5L
 Xie, Huiqiao, 28
 Xing, Yuxiang, 1K, 34, 3C, 4J
 Xiong, Zhenyu, 4D, 60, 63, 66
 Xthona, Albert, 06
 Xu, Dong, 3F
 Xu, Jingyan, 38

Xu, Jingzhu, 23
 Xu, Shiyu, 3O
 Xu, Zongben, 3G
 Yaffe, Martin J., 0A
 Yamakawa, T., 5K
 Yamamoto, S., 5K
 Yan, Telon, 5G
 Yanagita, Satoshi, 68
 Yang, Hongkai, 1K
 Yang, Wei T., 0V
 Yang, Xiaofeng, 3F, 45
 Yang, Yan, 3G
 Yang, Zepa, 35
 Yarrabothula, Sushmitha, 5Q
 Ye, Jinghan, 3T
 Yeo, Seung Jun, 5J
 Yeon, Ji-Hwan, 2G
 Yokoi, Kazuma, 55
 Yorkston, J., 0R
 Youn, Hanbean, 4C
 Young, Anthony, 2Z
 Young, Kenneth C., 0B
 Yu, J. Michael, 0N
 Yu, Lifeng, 1G, 33, 47
 Yu, Zhou, 4A
 Yun, Jonghee, 4C
 Yun, Ki Nam, 2G
 Zacharakis, G., 2F
 Zackrisson, Sophia, 04
 Zamyatin, Alexander, 3L
 Zanonati, Fabrizio, 20
 Zanfardino, Sara, 2K
 Zarafshani, Ali, 2J, 5L
 Zbijewski, Wojciech, 0M, 0R, 1E, 1R, 4E
 Zeidler, J., 4F
 Zeitoun, P., 4I
 Zeng, Dong, 37, 3G, 4N
 Zeng, Rongping, 5M
 Zhang, Guozhi, 41, 44
 Zhang, Hao, 29, 3C
 Zhang, J., 5Z
 Zhang, Ran, 0W, 1P, 30, 4L, 4T
 Zhang, Tao, 3A
 Zhang, Wenli, 36
 Zhang, Yanbo, 3J
 Zhang, Yiheng, 5F
 Zhang, Yuanke, 34, 36
 Zhang, Zheng, 1S, 3T
 Zhao, Cong, 33
 Zhao, Qihua, 0L
 Zhao, Wei, 0K, 0O, 4V, 5U, 5Y
 Zheng, Bin, 2J, 5H, 5L
 Zheng, Hao, 5U
 Zhi, Shaohua, 48
 Zhou, Otto, 0E, 0I
 Zhou, Wei, 1C, 4U
 Zhou, Weimin, 22
 Zhou, Zhengyang, 3F
 Zhu, Xia, 2V
 Zhu, Ying, 2D

Ziskin, Vitaliy, 0X
Zuo, H., 5Z

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Robert F. Wagner was an active scientist in the SPIE Medical Imaging meeting, starting with the first meeting in 1972 and continuing throughout his career. He ensured that the BRH, and subsequently the CDRH, was a sponsor for the early and subsequent Medical Imaging meetings, helping to launch and ensure the historical success of the meeting. The Robert F. Wagner All-Conference Best Student Paper Award (established 2014) is acknowledgment of his many important contributions to the Medical Imaging meeting and his many important advances to the field of medical imaging.

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2018 Recipients:

First Place: **Dynamic beam filtering for miscentered patients** (10573-29)

Andrew Mao, William Shyr, Grace J. Gang, J. Webster Stayman, Johns Hopkins Univ. (United States)

Second Place: **Tumor margin classification of head and neck cancer using hyperspectral imaging and convolutional neural networks** (10576-4)

Martin Halicek, Georgia Institute of Technology (United States) and Augusta Univ. (United States); James V. Little, Xu Wang, Emory Univ. School of Medicine (United States); Mihir Patel, Emory Univ. School of Medicine (United States) and The Winship Cancer Institute of Emory Univ. (United States); Christopher C. Griffith, Emory Univ. School of Medicine (United States); Amy Y. Chen, Emory Univ. School of Medicine (United States) and The Winship Cancer Institute of Emory Univ. (United States); Baowei Fei, Georgia Institute of Technology & Emory Univ. (United States) and The Winship Cancer Institute of Emory Univ. (United States)

Physics of Medical Imaging Student Paper Awards sponsored by GE Healthcare

Winner: Paper 10573-29, "Dynamic beam filtering for miscentered patients"

Andrew Mao, William Shyr, Grace J. Gang, J. Webster Stayman, Johns Hopkins Univ. (United States)

Runner-up: Paper 10573-78, "Sensitivity and specificity of a sparse reconstruction algorithm for superparamagnetic relaxometry"

S. L. Thrower, D. Fuentes, W. Stefan, J. Sovizi, K. Mathieu, J. D. Hazle, The Univ. of Texas M.D. Anderson Cancer Ctr. (United States)

Runner-up: Paper 10573-108, "Motion compensated reconstruction of the aortic valve for computed tomography"

T. Elss, Philips Research (Germany) and Hamburg Univ. of Technology (Germany);
R. Bippus, H. Schmitt, Philips Research (Germany); T. Ivanc, Philips Healthcare (United States); M. Morlock, Hamburg Univ. of Technology (Germany); M. Grass, Philips Research (Germany)

Physics of Medical Imaging Poster Presentation Awards sponsored by Siemens Healthineers

Cum Laude: Paper 10573-95, "Towards non-invasive electrocardiographic imaging using regularized neural networks"

Abhejit Rajagopal, Vincent Radzicki, Hua Lee, Shivkumar Chandrasekaran, Univ. of California, Santa Barbara (United States)

Honorable Mention: Paper 10573-179, "Impact of radiation dose level on CT number accuracy in photon counting CT"

Ran Zhang, Juan P. Cruz-Bastida, Daniel Gomez-Cardona, John Hayes, Ke Li, Guang-Hong Chen, Univ. of Wisconsin School of Medicine and Public Health (United States)

Honorable Mention: Paper 10573-220, "A novel radiation imaging detector with proportional charge gain"

Denny L. Lee from Direct X Ray Digital Imaging Technology LLC (United States), Viewworks Co., Ltd. (Korea, Republic of), and Univ. of Waterloo (Canada); Hyunsuk Jang, Viewworks Co., Ltd. (Korea, Republic of); Ahmet Camlica, Karim S. Karim, Univ. of Waterloo (Canada)