Congratulations to the 2017 Robert F. Wagner Best Student Paper Award Recipients

Sponsored by:

SPIE.

1st Place
Adrian F. Howansky, Stony Brook Univ. (USA)
Direct measurement of Lubberts effect in CsI:Tl scintillators using single x-ray photon imaging. [10132-8]

Runner Up
Ahmet Cakir, Vanderbilt Univ. (USA)
Evaluation of a high-resolution patient-specific model of the electrically stimulated cochlea [10135-21]

Congratulations to the Conference Award Winners

2017 Physics of Medical Imaging Student Paper Awards
This student paper award is for first authors of high quality papers within the Physics of Medical Imaging conference.

Sponsored by:

Carestream

1st Place
Adrian F. Howansky, Stony Brook Univ. (USA)
Direct measurement of Lubberts effect in CsI:Tl scintillators using single x-ray photon imaging. [10132-8]

Runner Up
Martin Sjöli, KTH Royal Institute of Technology (Sweden)
Optimal sinogram sampling with temporally offset pixels in continuous rotation CT [10132-90]

Runner Up
Lucas Borges, Escola de Engenharia de Sao Carlos, Univ. de São Paulo (Brazil)
Pipeline for effective denoising of digital mammography and digital breast Tomosynthesis [10132-5]

2017 Image-Guided Procedures, Robotic Interventions, and Modeling

Young Scientist Awards
The young scientist award is for first authors of high quality papers who are early career scientists.

Sponsored by:

SIEMENS Healthineers

1st Place
Michael Ketcha, Johns Hopkins Univ. (USA)
Fundamental limits of image registration performance: effects of image noise and resolution in CT-guided interventions [10135-7]

Runner Up
Ahmet Cakir, Vanderbilt Univ. (USA)
Evaluation of a high-resolution patient-specific model of the electrically stimulated cochlea [10135-21]

Runner Up
Haichong Zhang, Johns Hopkins Univ. (USA)
Toward dynamic lumbar punctures guidance based on single element synthetic tracked aperture ultrasound imaging [10135-18]

PARTICIPATE IN A POSTER SESSION
Gain valuable feedback and one-on-one networking with colleagues.
NOTE: Papers accepted in the program and presented during the poster session are eligible for award consideration.

Each conference review committee recognizes a selected poster at the cum laude level for best poster presentation in their conference.

Congratulations to the 2016 Poster Award Winners

Physics of Medical Imaging (Conference 10132)

Sponsored by:

SIEMENS Healthineers

Cum Laude
Kazuki Shigeta, Toray Industries, Inc. (Japan)
High spatial resolution performance of pixelated scintillators [10132-145]

Honorable Mention
Sunay Rodríguez Pérez, SCK CEN (Belgium)
Validation study of the thorax phantom Lungman for optimization purposes [10132-191]

Honorable Mention
Juliana Gomes, Johns Hopkins Univ. (USA)
An investigation of low-dose 3D scout scans for computed tomography [10132-94]

Honorable Mention
Kevin C. Zimmerman, Marquette Univ. (USA)
Empirical neural network forward model for maximum likelihood material decomposition in spectral CT [10132-139]

Honorable Mention
Ai Nakajima, Nagoya Univ. (Japan)
Detection of microcalcifications and tumor tissue in mammography using a CdTe-series photon-counting detector [10132-154]

Honorable Mention
Elena Eggl, Technische Univ. München (Germany)
Mono-energy coronary angiography with a compact light source [10132-168]

Honorable Mention
Ronen D. Lifshitz, Check-Cap Ltd. (Israel)
Phantom system for intraluminal x-ray imaging of the human colon

Honorable Mention
Jian Dong, Univ. of Tsukuba (Japan)
Investigation into image quality difference between total variation and nonlinear sparsifying transform based compressed sensing [10132-109]

Image Processing (Conference 10133)
NOTE: Only student papers are considered for the award in this conference.

Cum Laude
Koen Eppenhof, Technische Univ. Eindhoven (Netherlands)
Supervised local error estimation for nonlinear image registration using convolutional neural networks [10133-66]

Honorable Mention
Kensuke Umehara, Osaka Univ. (Japan)
Super-resolution convolutional neural network for the improvement of the image quality of magnified images in chest radiographs [10133-61]

Honorable Mention
Jianing Wang, Vanderbilt Univ. (USA)
Automatic selection of landmarks in T1-weighted head MRI with regression forests for image registration initialization [10133-96]

Computer-Aided Diagnosis (Conference 10134)

Cum Laude
Noha Ghatwary, Univ. of Lincoln (UK) & Arab Academy of Science and Technology & Maritime Support (Egypt)
Automatic grade classification of Barrett's esophagus through feature enhancement [10134-109]

Honorable Mention
Karem D. Marcomini, Univ. de São Paulo (Brazil)
Agreement between a computer-assisted tool and radiologists to classify lesions in breast elastography images [10134-97]

Honorable Mention
Ryusuke Watanabe, Gifu Univ. School of Medicine (Japan)
Automated detection of nerve fiber layer defects on retinal fundus images using fully convolutional network for early diagnosis of glaucoma [10134-114]

Honorable Mention
Shuang Liu, Cornell Univ. (USA)
Individual bone structure segmentation and labeling from low-dose chest CT [10134-146]

Image-Guided Procedures, Robotic Interventions, and Modeling (Conference 10135)

Sponsored by:

Cum Laude
Xiaochen Yang, Vanderbilt Univ. (USA)
Integrated system for point cloud reconstruction and simulated brain shift validation using tracked surgical microscope [10135-87]

Honorable Mention
Pooneh Roshani, Children's National Medical Ctr. (USA)
Temporal bone dissection simulator for training pediatric otolaryngology surgeons [10135-95]

Honorable Mention
Christina Yan, Queen's Univ. (Canada)
Study into needle displacement during navigated breast cancer surgery [10135-79]

Image Perception, Observer Performance, and Technology Assessment (Conference 10136)

Cum Laude
Scott D. Wollenweber, GE Healthcare (USA)
A phantom design and assessment of lesion detectability in PET imaging [10136-48]

Honorable Mention
Andriy I. Bandos, Univ. of Pittsburgh (USA)
On analyzing free-response data on location level [10136-88]

Biomedical Applications in Molecular, Structural, and Functional Imaging (Conference 10137)

Cum Laude
Ruofei Bu, The Univ. of North Carolina at Chapel Hill (USA)
Anatomic optical coherence tomography for dynamic imaging of the upper airway [10137-58]

Honorable Mention
Hirokai Matsuda, Kanazawa Univ. (Japan)
Computerized method to compensate for breathing body motion in dynamic chest radiographs [10137-61]

Honorable Mention

Rohini Vidya Shankar, Arizona State Univ. (USA)
Undersampling strategies for compressed sensing accelerated MR spectroscopic imaging [10137-91]

Imaging Informatics for Healthcare, Research, and Applications (Conference 10138)

Cum Laude
Hsaio-Chuan Liu, Univ. of Southern California (USA) and Children's Hospital Los Angeles (USA)
Differentiating malignant from benign breast tumors on acoustic radiation force impulse imaging using fuzzy-based neural networks with principle component analysis [10138-48]

Honorable Mention
Xinhua Cao, Boston Children's Hospital (USA)
DICOM image quantification secondary capture (DICOM IQSC) integrated with numeric results, regions, and curves: implementation and applications in nuclear medicine [10138-38]

Ultrasonic Imaging and Tomography (Conference 10139)

Cum Laude
Xiaolei Qu, The Univ. of Tokyo (Japan)
Limb muscle sound speed estimation by ultrasound computed tomography excluding receivers in bone shadow [10139-46]

Honorable Mention
Johannes Rebling, Helmholtz Zentrum München (Germany)
Broadband optoacoustic characterization of cMUT and PZT transducer directivity in receive mode [10139-55]

Digital Pathology (Conference 10140)

Cum Laude
Ali R.N. Avanaki, Barco, Inc. (USA)
Panning artifacts in digital pathology images [10140-34]

Honorable Mention
Peter J. Lawson, Tulane Univ. (USA)
Topological descriptors for quantitative prostate cancer morphology analysis [10140-33]