



9/7/2016

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Prof Riyahi Alam Nader:

On behalf of the American Association of Physicists in Medicine, I am pleased to invite you to attend the AAPM 58th Annual Meeting and Exhibition to be held at the Washington Convention Center in Washington, DC, July 31 - August 4, 2016.

Registration Fees:

Member (Weekly - Early)	\$ 695	Non-Member (Weekly - Early)	\$ 1390
Member (Weekly - After June 22)	\$ 925	Non-Member (Weekly - After June 22)	\$ 1620
Emeritus Member	\$ 130		
Daily (no social functions)	\$ 340	Non-Member Daily (no social functions)	\$ 680
Junior Member Weekly (includes social functions)	\$ 295		
Member Resident Weekly (includes social functions)	\$ 295	Non-Member Resident Weekly (includes social functions)	\$ 385
Student Weekly (includes social functions)	\$ 236		
Student Daily (no social functions)	\$ 25		

Housing information for the AAPM 58th Annual Meeting and Exhibition will be available on our website at <http://www.aapm.org/meetings/2016AM> on March 23, 2016.

Hotel Accommodations:

Hotel accommodations will be available at nine area hotels. The cost for a room will range from \$195 - \$245 US dollars per night.

Sincerely,

Angela R. Keyser
 AAPM Executive Director

Sunday, July 31, 2016

- SU-F-R-26 Prognostic Radiomics of Breast Cancer On DCE and DWI MR Images - N. Mafarrah*, H. Li, L. Lan, A. Edwards, M. Giger
- SU-F-R-27 Use Local Shape Descriptor Based On Geodesic Distance to Predict Survival in Non-Small Cell Lung Cancer After Radiotherapy - H. Zhong*, L. Yan, K. Huang, F. Kong, J. Liu
- SU-F-R-28 Correction of FC-PET Bladder Uptake Using Virtual Sierpinski and Investigation of Its Impact On the Quantification of Prostate Textural Characteristics - S. Loberge*, J. Beauséjour, L. Audureau
- SU-F-R-29 The Influence of Four Dimensional Diffusion-Weighted MRI (4D-DWI) On Feature Analysis of Time-Resolved Apparent Diffusion Coefficient (ADC) Measurement: Initial Evaluation - Y. Liu*, F. Yin, J. Cai
- SU-F-R-30 Inter-scanner Variability of Radiomics Features in Computed Tomography (CT) Using a Standard ACR Phantom - M. Shafiqul Hassan*, M. Shafiqul Hassan, M. Baberich, G. Zhang, K. Latif, D. Hani, B. Gillies, E. Meres
- SU-F-R-31 Identification of Robust Normal Lung CT Texture Features for the Prediction of Radiation-Induced Lung Disease - W. Choi*, S. Rojati, W. Lu
- SU-F-R-32 Evaluation of MRI Acquisition Parameter Variations On Texture Feature Extraction Using ACR Phantom - Y. Xiao*, J. Wang, C. Wang, Z. Chang
- SU-F-R-33 Can CT and CBCT Be Used Simultaneously for Radiomics Analysis - R. Lar*, J. Wang, H. Zhong, J. Guo, P. Hu, L. Shen, W. Hu, Z. Zhong
- SU-F-R-34 Quantitative Perfusion Measurement in Rectal Cancer Using Three Different Pharmacokinetic Models: Implications for Prospective Study Design - K. Nie*, T. Mao, L. Shi, N. Yue, S. Jabbar, S. Kim, X. Hu, L. Qian, X. Sun, T. Niu
- SU-F-R-35 Repeatability of Texture Features in T1- and T2-Weighted MR Images - R. Mahon*, E. Wean, J. Ford, K. Karki, G. Hagi
- SU-F-R-36 Validating Quantitative Radiomic Texture Features for Oncologic PET: A Digital Phantom Study - F. Yang*, Y. Yang, L. Young
- SU-F-R-38 Impact of Smoothing and Noise On Robustness of CBCT Textural Features for Prediction of Response to Radiotherapy Treatment of Head and Neck Cancers - H. Bagheri-Ebadian*, I. Chetty, C. Liu, B. Movsas, F. Siddiqui
- SU-F-R-39 Effects of Radiation Dose Reduction On Renal Cell Carcinoma Differentiation Using Multi-Phase CT Imaging - M. Wahi-Arrou*, S. Young, P. Lo, S. Ramer, H. Kim, M. Brown, M. McNeil-Gray, H. Coy, D. Adhin-Garry, E. Pace-Soto
- SU-F-R-40 Robustness Test of Computed Tomography Textures of Lung Tissues in Varying Scanning Protocols Using a Realistic Phantom Environment - S. Lee*, D. Markel, G. Haggi, I. El Naqa
- SU-F-R-41 Regularized PCA Can Model Treatment-Related Changes in Head and Neck Patients Using Daily CBCTs - M. Chaturvedi*, F. Siddiqui, I. Chetty, A. Kumarasiri, C. Liu, J. Gordon
- SU-F-R-42 Association of Radiomic and Metabolic Tumor Volumes in Radiation Treatment of Glioblastoma Multiforme - C. Lopez*, N. Nagarajan, N. Parra, D. Kwon, F. Ishkhanian, A. Markov, A. Maudslay, E. Stepanova
- SU-F-R-43 Recursive K-Means Filter for Preserving Signals of Interest - A. Chu*, P. Yan, R. Shi, C. Wu
- SU-F-R-44 Modeling Lung SBRT Tumor Response Using Bayesian Network Averaging - A. Diamant*, J. E. Naja, N. Yhous, J. Scajars
- SU-F-R-45 The Prognostic Value of Radiotherapy Based On the Changes of Texture Features Between Pre-Treatment and Post-Treatment FDG PET Image for NSCLC Patients - C. Ma*, Y. Yin
- SU-F-R-46 Predicting Disease Failure in Lung SBRT Using Multi-Objective Radiomics Model - Z. Zhou*, M. Follen, P. Iyengar, Y. Zhang, J. Wang
- SU-F-R-47 Quantitative Shape Relationship Analysis of PTV Modification for Critical Anatomy Sparing and Its Impact On Pathologic Response for Neoadjuvant Stereotactic Radiotherapy for Pancreatic Cancer - Z. Cheng*, L. Rossi, L. Chen, S. Robertson, J. Moore, L. Peng, O. Mian, A. Narang, A. Becker-Priest, J. Herman, T. McNitt
- SU-F-R-48 Early Prediction of Pathological Response of Locally Advanced Rectal Cancer Using Perfusion CT: A Prospective Clinical Study - K. Nie*, L. Shi, N. Yue, S. Jabbar, S. Kim, T. Mao, L. Qian, X. Hu, X. Sun, T. Niu

Sunday, July 31, 2016

- SU-F-R-49 A Novel Kinetic Model for Prediction of Tumor Local Control for Patients with Lung Cancer - H. Zhong*, S. Siddiqui, B. Zhao, H. Li, K. Barten, F. Siddiqui, B. Movsas, I. Chetty
- SU-F-R-50 Radiation-Induced Changes in CT Number Histogram During Chemoradiation Therapy for Pancreatic Cancer - X. Chen*, D. Schae, Y. Song, D. Li, W. Hall, B. Erduran, X. Li
- SU-F-R-51 Radiomics in CT Perfusion Maps of Head and Neck Cancer - M. Novakovic*, O. Kuznetsov, R. Sundichak, P. Ven-Haback, M. Hultner, G. Sieder, S. Stroh, S. Glau, M. Prandy, M. Guenzelberger, S. Tawadri-Lang
- SU-F-R-52 A Comparison of the Performance of Radiomic Features From Free Breathing and 4DCT Scans in Predicting Disease Recurrence in Lung Cancer SBRT Patients - E. Hryniuk*, T. Cordeiro, V. Narayan, V. Agawal, J. Romano, I. Franco, Y. Hsu, R. Mah, H. Aerts
- SU-F-R-53 CT-Based Radiomics Analysis of Non-Small Cell Lung Cancer Patients Treated with Stereotactic Body Radiation Therapy - E. Hryniuk*, T. Cordeiro, V. Narayan, V. Agawal, Y. Hsu, J. Romano, I. Franco, R. Mah, H. Aerts
- SU-F-R-54 CT-Texture Based Early Tumor Treatment Response Assessment During Radiation Therapy Delivery: Small Cell Versus Non-Small Cell Lung Cancers - J. Paul*, E. Gore, X. Li
- SU-F-R-55 Early Detection of Treatment Induced Bone Marrow Injury During Chemoradiation Therapy Using Quantitative CT - X. Chen*, Y. Song, B. Erickson, X. Li
- SU-F-R-56 Early Assessment of Treatment Response During Radiation Therapy Delivery for Esophageal Cancer Using Quantitative CT - D. Li*, X. Chen, H. Wu, J. Wang, X. Li
- SU-F-R-57 Validation of Quantitative Radiomic Texture Features for Oncologic MRI: A Simulation Study - F. Yang, J. Ford*, N. Dagan

Imaging General Poster Discussion

1:00 pm - 6:00 pm

-Exhibit Hall

SU-F-I Imaging General Poster Discussion

- SU-F-I-01 Normalized Mean Glandular Dose Values for Dedicated Breast CT Using Realistic Breast-Shaped Phantoms - A. Hernandez*, J. Boone
- SU-F-I-02 Comparative Analysis and Consistency Check of Image Quality Parameters for Three Linear Accelerators Per TG 142 Protocol - Y. Alhazal*, D. Fokirel, H. Jiang, B. Bakol
- SU-F-I-03 Correction of Intra-Fractional Set-Up Errors and Target Coverage Based On Cone-Beam Computed Tomography for Cervical Cancer Patients - J. Zhang*, D. Hong
- SU-F-I-04 Low Dose CT Lung Cancer Screening Protocol Evaluation - E. Nem*, Y. Inai
- SU-F-I-05 Dose Symmetry for CTDI Equivalent Measurements with Limited Angle CBCT - V. Singh*, S. McKeeney, P. Soudi, W. Peng, D. Bakalyar
- SU-F-I-06 Evaluation of Imaging Dose for Modulation Layer Based Dual Energy Cone-Beam CT - E. Ju*, S. Ahn, S. Cho, K. Kwon, R. Lee
- SU-F-I-07 CBCT Denoising Based On Adaptive Dictionary Learning Algorithms - S. Qiu*, J. Yin, H. Li, J. Chen, Y. Yin, D. Li
- SU-F-I-08 CT Image Ring Artifact Reduction Based On Prior Image - C. Yuan*, H. Qi, Z. Chen, S. Wu, Y. Xu, L. Zhou
- SU-F-I-09 Improvement of Image Registration Using Total-Variation Based Noise Reduction Algorithms for Low-Dose CBCT - S. Mubarej*, J. Fan, T. Merchant, W. Yao
- SU-F-I-10 Spatially Local Statistics for Adaptive Image Filtering - A. Hignoulet*, D. Fiora, Y. Zhang, N. Pitsounis, X. Sun, F. Yin, L. Ren
- SU-F-I-11 Software Development for 4D-CBCT Research of Real-Time-Image Gated Spot Scanning Proton Therapy - T. Fujii*, T. Matsuda, S. Takao, N. Miyamoto, Y. Matsuzaki, F. Yasuda, K. Udagaki, S. Shimizu, H. Shimizu
- SU-F-I-12 Region-Specific Dictionary Learning for Low-Dose X-Ray CT Reconstruction - Q. Xu*, H. Han, L. Xing
- SU-F-I-13 Correction Factor Computations for the NIST Rita Free Air Chamber for Medium-Energy X Rays - P. Beignter*
- SU-F-I-14 3D Breast Digital Phantom for XACT Imaging - S. Tang*, Y. Chen, S. Ahmad, K. Yang, R. Lauroani, J. Chen, P. Sarant, L. Xiang
- SU-F-I-15 Evaluation of a New MR-Compatible Respiratory Motion Device at JT - A. Soliman*, B. Chugh, B. Keller, A. Salgal, W. Song

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- SU-F-1-16 Short Breast MRI with High-Resolution T2-Weighted and Dynamic Contrast Enhanced T1-Weighted Images - J. Ma*, J. Sun, B. Anuj, J. Hsieh, K. Hwang, K. Wang, E. Bayman, J. McDowell, W. Yang, B. Degea
- SU-F-1-17 White Matter Track Based Analysis of Lesion Abnormalities in Cognitive Impairment - R. Jia*, T. Su, J. Han, C. Kim, C. Oh
- SU-F-1-18 Altered Visual Cortex Responses by Wide-View fMRI in Primary Open Angle Glaucoma Patients - W. Zhou*, E. Mair, S. Chalfin, K. Nagi, G. Clebe, T. Duong
- SU-F-1-19 MRI Positive Contrast Visualization of Prostate Brachytherapy Seeds Using An Integrated Laplacian-Based Phase Processing - A. Salazar*, R. Nourai, H. Safgholi, A. Owinga, G. Martin, W. Song
- SU-F-1-20 Volumetric Reduction of the Corpus Callosum in Alzheimer's Disease and Mild Cognitive Impairment - R. Jia*, T. Su, J. Han, C. Kim, C. Oh
- SU-F-1-21 Unfolding of Aligned Dynamic Acquisitions for the Acceleration of Breast Dynamic-Contrast Enhanced MRI (DCE-MRI) - F. Fiodor*, M. Mjelved, X. Fan, G. Karzmar
- SU-F-1-22 Development and Implementation of Task-Specific Modular Phantoms for MRI Quality Evaluation - H. Cho*, C. Hong, I. Doh, B. Ahn
- SU-F-1-23 3H Magnetic Resonance Spectroscopy Baseline Correction With Singular Value Decomposition Method - W. Feng*, S. Yang, J. Hu
- SU-F-1-24 Feasibility of Magnetic Susceptibility to Relative Electron Density Conversion Method for Radiation Therapy - K. Do*, N. Kadaya, M. Ohta, K. Sato, T. Nagasaka, K. Yamashita, S. Dobashi, K. Takefu, R. Matsubara, K. Inaga
- SU-F-1-25 Reproducibility of Phosphorus MRS and Work Measurements for Evaluating Skeletal Muscle Metabolism - F. Seifried*, E. Ripley, D. Shergin, G. Claeys
- SU-F-1-26 Maximum Likelihood and Nested Model Selection Techniques for Pharmacokinetic Analysis of Dynamic Contrast Enhanced MRI in Patients with Glioblastoma Tumors - H. Sagar-Eshaghi*, A. Dehdordi, J. Entag
- SU-F-1-27 Measurement of SAR and Temperature Elevation During MRI Scans - Y. Seo*
- SU-F-1-28 CTQA: Clinically Relevant Testing - J. Ock*
- SU-F-1-29 Investigating the Impact of the Amount of Contrast Material Used in Abdominal CT Examinations Regarding the Diagnosis of Appendicitis - E. Lavdar*, N. Beel, I. Sarantisena, A. Godevenc, I. Navala, T. Theodoropoulos, G. Zavras, P. Mavroudis
- SU-F-1-30 Minimization of Resolution Loss for CT Scans of the Elbow at Lateral Position - Y. Zhou*, A. Scott
- SU-F-1-31 Reproducibility of An Automatic Exposure Control Technique in the Low-Dose CT Scans of Cardiac PET/CT Exam - M. Park*, D. Rezaei, V. Agarwal, M. Di Carlo, S. Doshi
- SU-F-1-32 Organ Doses From Pediatric Head CT Scan - H. Liu*, Q. Liu, J. Qiu, M. Major, Z. Knezevic, S. Miljanic, B. Hrnak, W. Zhou
- SU-F-1-33 Estimating Radiation Dose in Abdominal Fat Quantitative CT - X. Li*, K. Yang, B. Liu
- SU-F-1-34 How Does Longitudinal Dose Profile Change with Tube Current Distribution in CT? - X. Li*, K. Yang, B. Liu
- SU-F-1-35 Establishment of DRL and Dose Indicators for Optimization of Protection in Pediatric CT in Saudi Arabia - A. Al-Hajj*, A. Lebrighin
- SU-F-1-36 In-Utero Dose Measurements Within Postmortem Subjects for Estimating Fetal Doses in Pregnant Patients Examined with Pulmonary Embolism, Trauma, and Appendicitis CT - I. Lipshanski*, N. Gault, C. Carrasco, N. Correa, S. Bidari, M. Bickelhaup, L. Rio, M. Amelsa
- SU-F-1-37 How Fat Distribution and Table Height Affect Estimates of Patient Size in CT Scanning: A Phantom Study - M. Slosky*, R. Marsh
- SU-F-1-38 Patient Organ Specific Dose Assessment in Conventional CT Angiograph Using Voxelated Volume Dose Index in Monte Carlo Simulation - G. Fajal Mohammed, N. Riyadh Alami*, G. Grady, R. Pagar
- SU-F-1-39 In Search of Inflection: Finding the Limiting Dose for an Inflection CT Scan on a Cylindrical of Finite Length - D. Bakalyar*
- SU-F-1-40 Impact of Scan Length on Patient Dose in Abdomen/pelvis CT Diagnosis - I. Park*, J. Song, K. Kim
- SU-F-1-41 Calibration-Free Material Decomposition for Dual-Energy CT - W. Zhao, L. Xing*, Q. Zhang, G. Xiang, J. Min
- SU-F-1-42 Evaluation of Multiple Atlas Segmentation Methods for the Abdomen - S. Pozzan*, A. Nelson
- SU-F-1-43 A Software-Based Statistical Method to Compute Low Contrast Detectability in Computed Tomography Images - M. Chacko*, S. Aldehbi

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- SU-F-1-44 Using the Air Signal to Characterize Image Noise in CT - T. Szczepanowicz, A. Mokko*
- SU-F-1-45 An Automated Technique to Measure Image Contrast in Clinical CT Images - J. Sanders*, E. Anaki, B. Meng, E. Sarraf
- SU-F-1-46 Optimizing Dose Reduction in Adult Head CT Protocols While Maintaining Image Quality in Postmortem Head Scans - I. Lipshanski*, C. Carrasco, N. Qasbi, N. Correa, D. Rajderick, J. Bensen, L. Rio, M. Amelsa
- SU-F-1-47 Optimizing Protocols for Image Quality and Dose in Abdominal CT of Large Patients - L. Johnson*, M. Yezzer
- SU-F-1-48 Variability in CT Scanning Over-Range Across Clinical Operation - F. Rio*, J. Wilson, F. Gantzer, F. Zanca, E. Sarraf
- SU-F-1-49 Vendor-Independent, Model-Based Iterative Reconstruction On a Rotating Grid with Coordinate-Descendent Optimization for CT Imaging Investigations - S. Young*, J. Hoffman, F. Nuo, M. McNitt-Gray
- SU-F-1-50 Finite Element-Based Deformable Image Registration of Lung and Heart - R. Penjwani*, M. Kim, T. Zhu
- SU-F-1-51 CT/MR Image Deformation: The Clinical Assessment QA in Target Delineation - C. Yang*, Y. Chen
- SU-F-1-52 An Approach to Estimate Noise in Patient Image by Computing the Minimal Difference in Neighborhoods - R. Malmqvist*, A. Carrozz, H. Gack, D. Yang
- SU-F-1-53 Coded Aperture Coherent Scatter Spectral Imaging of the Breast: A Monte Carlo Evaluation of Absorbed Dose - R. Mania*, M. Lakshmanan, G. Feng, A. Kapadia, J. Greenberg
- SU-F-1-54 Spatial Resolution Studies in Proton CT Using a Phase-II Prototype Head Scanner - T. Flantz*, E. Johnson, H. Sadrozinski, A. Zaitsevskiy, V. Bushnikov, R. Harley, R. Scheidt, P. Patsiosini, V. Giacomini
- SU-F-1-55 Performance Evaluation of Digital PET/CT: Medical Physics Basis for the Clinical Applications - J. Zhang*, M. Miller, M. Knopp
- SU-F-1-56 High-Precision Gamma-Ray Analysis of Medical Isotopes - N. Chappas*, T. Chillery, E. McCutchan, P. Chowdhary, C. Smith, C. Lister
- SU-F-1-57 Evaluate and Optimize PET Acquisition Overlap in 18F-FDG Oncology Wholebody PET/CT: Can We Scan PET Faster? - J. Zhang*, M. Narva, N. Hall, M. Knopp, B. Zhang, C. Tang, M. Knopp
- SU-F-1-58 Image Quality Comparison of Different Motion Magnitudes and TR Values in MR-PET - J. Patrick*, M. Tavalani, R. Thompson, R. Stodiles, M. Drangova, S. Gurbel
- SU-F-1-59 Quality Assurance Phantom for PET/CT Alignment and Attenuation Correction - T. Liu*, K. Haracher
- SU-F-1-60 ICC MIVG Displays: Final Recommendations for Visualization of Medical Content On Color Display Systems - T. Kinjo*, P. Green, C. Reiss, M. Flynn
- SU-F-1-61 Assessment and Characterization of the Built-in Internal Photometer of Primary Diagnostic Mammography - A. Rieger*, Y. Erdi, U. Mubarezo
- SU-F-1-62 A Decade-Old Leg Analyzer for Monitoring DICOM Network Performance - M. Moriyama*, Y. Mankani, M. Oishi, K. Tokumaru, S. Okamoto
- SU-F-1-63 Relaxation Times of Lipid Resonances in NAFID Animal Model Using Enhanced Curve Fitting - K. Song*, C. Yoo, S. Lee, B. Choe
- SU-F-1-64 Comparison of Lipid Contents Using STEAM and PRESS with In Vivo High-Resolution Spectra at 9.4 T - K. Song*, S. Lee, C. Yoo, B. Choe
- SU-F-1-65 Fatty Acid Quantification in High-Fat-Diet Induced Abnormal Intrahepatic Triglyceride Storage Using Internal Standard Method at 3.0 T - K. Song*, C. Yoo, S. Lee, B. Choe
- SU-F-1-66 The Effect of Neurokinin Agonists On Rat Hippocampal Glutamate Receptor Fluorescence by Using Proton Magnetic Resonance Spectroscopy at 9.4T - S. Lee*, K. Song, C. Yoo, D. Woo, B. Choe
- SU-F-1-67 Neurotoxic Effect Induced by Repeated Exposure to Dioxin On Prefrontal Cortex of Schizophrenic Animal Model Using In Vivo Proton Magnetic Resonance Spectroscopy at 9.4T - C. Yoo*, K. Song, S. Lee, D. Woo, B. Choe
- SU-F-1-68 Longitudinal Neurochemical Changes On Rat Prefrontal Cortex of Single Prolonged Stress Model by Using Proton Magnetic Resonance Spectroscopy at 9.4T - S. Lee*, K. Song, C. Yoo, D. Woo, B. Choe
- SU-F-1-69 Absorbed Dose Estimation for a Commercially Available MicroCT Scanner with Various Filtration Techniques - A. Liu*, L. Ren, H. Liu, S. Ahmad, Y. Chen